



## Hydraulics Catalog

Hydraulic Hose, Fittings & Equipment



**Continental**

WORLDWIDE. WORLD-CLASS. WORLD-CHANGING.



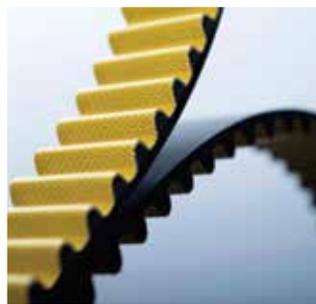


Continental is a world leader in industrial rubber and plastic products and has the largest global footprint of any rubber products manufacturer.

Our knowledge and expertise allow us to deliver the most innovative and highest-quality products on the market. Plus, our extensive problem-solving experience across multiple industries and applications enables us to share innovations over our entire product offering. Which means we can deliver unexpected solutions and advanced improvements in situations where others can't.

We push the boundaries of what's possible, and we're constantly solving tomorrow's most challenging problems—today and every day.

**It's Why We're Your Global Partner of Choice for Industrial Fluid Solutions.**





# Key Products

## EXCEEDING HYDRAULIC HOSE STANDARDS

Continental hydraulic hose and fittings exceed your demands in the harshest environments. From construction, oil and gas, mining and manufacturing to transportation, our designers and engineers constantly bring new innovations to the field.

### Extended Life™ XR16SC High-Pressure Hose

When the job requires tight bends, flexibility and abrasion resistance, this high-pressure hydraulic hose steps up to the task. Using a nitrile inner tube, two high-tensile steel wire braids of reinforcement and the Extended Life™ extra abrasion-resistant cover, it can handle a system working pressure up to 5,800 psi (31 MPa).

**- NEW large bore sizes now available (-20, -24 & -32)**

**- All XR16SC sizes use B2 series fittings**

*\*NOTE: -24 size requires special B2SC fitting.*

#### KEY FEATURES

Extended Life™ Cover

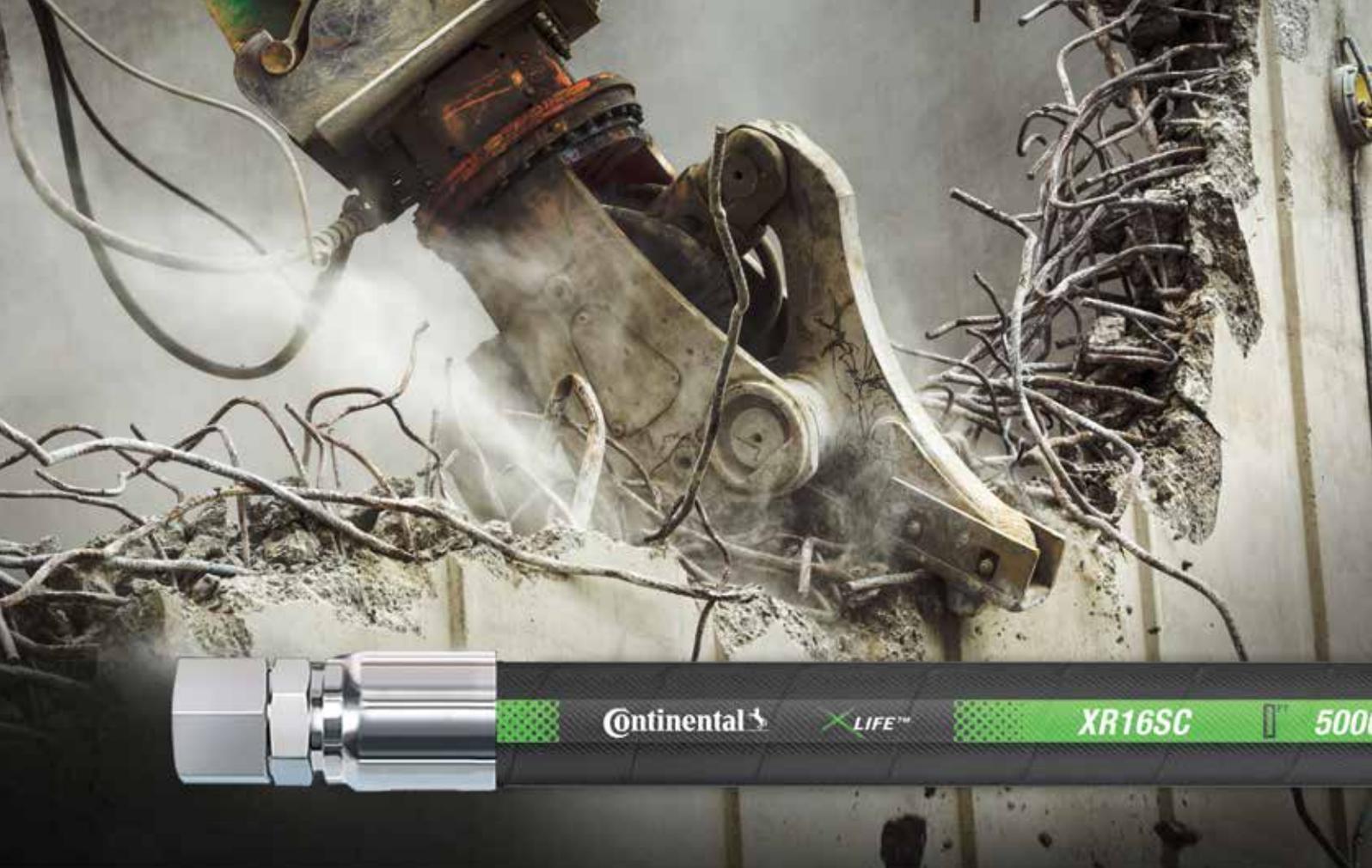
Meets Flame Resistance USMSHA Designation



Outer cover with Extended Life™ extra abrasion-, oil- and weather-resistant synthetic rubber.

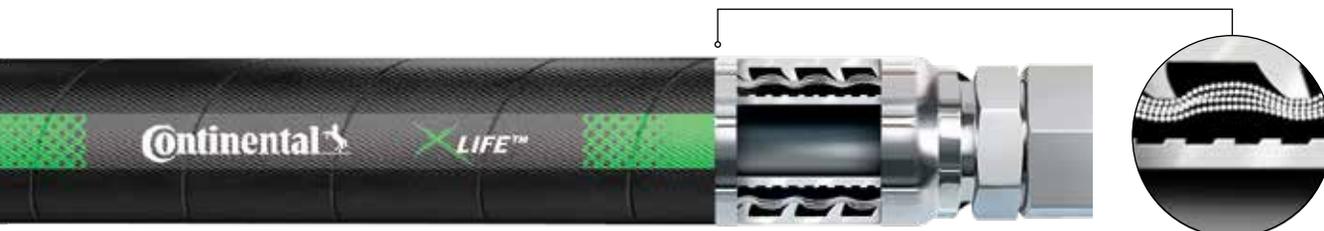
Two-wire braided construction of high-tensile steel wire.

Oil-resistant NBR (Nitrile) inner tube.



## STAY CONNECTED UNDER THE HIGHEST PRESSURES

Continental fittings are constructed from a single piece of steel without brazed or welded joints to provide ultimate protection against leaks and potential leak paths. With full-length crimps and a low-profile design that will last longer, the interlocking Bite-to-Wire technology delivers maximum coupling retention for safer assembly and reliability under the toughest pressure – no internal or external skive required.



*Full-Length Crimp offers maximum coupling retention for a safe and longer-lasting assembly.*

### B2

*Our Bite-to-Wire fittings penetrate the cover with a powerful bite into the wire reinforcement, resulting in even hose compression and maximum integrity.*

# Key Products

## Constant Pressure Spiral Hose

Our Continental Constant Pressure Spiral Hydraulic Hose provides you with the superior quality and reliability you need in the toughest conditions. Our Extended Life™ high abrasion-resistant cover helps minimize downtime; the half-bend radius allows routing in tight spaces, which can reduce hose length requirements. The constant pressure performance across all sizes aids in selecting the right hose for the application; while our simplified fittings and color-coded system are faster, safer and more cost effective. When the pressure is on, you want Continental there.

### KEY FEATURES



Made for  
constant pressure



1/2 Bend

## STAY FLEXIBLE IN EVEN THE TIGHTEST SITUATIONS

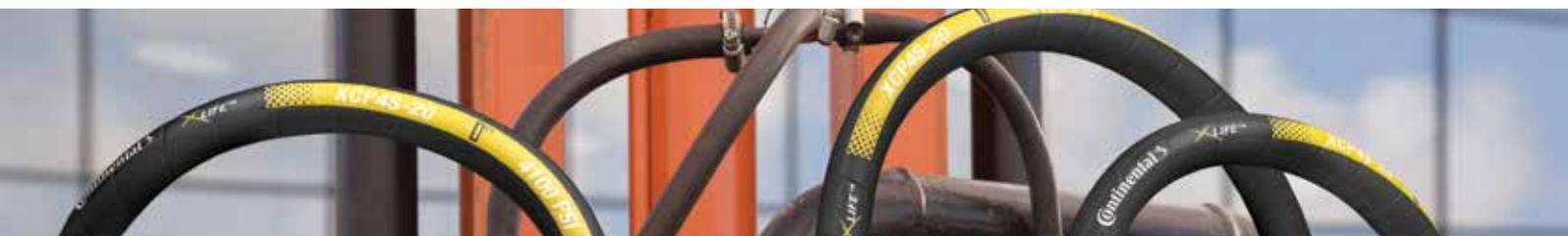
Flexibility plays a major role in your hydraulic hose operation and efficiency. With a bend radius up to 1/2 that of SAE conventional spiral hose standards, our hose is extremely flexible, easier to route and reduces the chance of bending too tightly. This helps provide increased hose savings and a reduction of shaped hose ends while equipping you with a safer, more cost-effective way to keep you moving throughout the day.

### Bend Radius Comparison vs. SAE Standard

*Not only does our hose provide a reduced bend radius, but the less-bulky inner tube and outer wall construction requires less force to bend for a more manageable routing process. This results in reduced installer fatigue and faster installation times overall.*



*Continental Constant Pressure Hose is up to 1/2 SAE bend radius specification.*





## STAY UP, OPERATIONAL AND SAFER ALL DAY.

Our color-coding system is designed specifically for our hose and provides a safe and user-friendly replacement process. Quickly recognize which colors align to the different hose pressures to avoid injury and ensure you install the correct hose with confidence.



*Constant Pressure Spiral Hose are designed to be easily identifiable by pressure rating for safe replacement.*



# Key Products

## TIME IS MONEY. AND WE ARE SAVING YOU BOTH.

We know your time is valuable. That is why we want to help you get back to doing what you do best, faster. The **Ready 2 Go (R2G)** system has pre-coupled Continental hose assemblies ready for delivery, so you can do less waiting.

And since the R2G System is available in 37 different hose families, you can rely on us to have the hose you need, when you need it. It is convenience on a whole new level.



Look for the icon – indicated standard sizes are available and Ready 2 Go.

Heavy Duty + Hot Water



Frontier™ Multipurpose



Neptune™ Pressure Washer



F5™ Air Hose



## PC440i Production Crimper

The PC440i Production Crimper Controller can store up to 50 dies and 150 crimp settings, and its special pressure transducer monitors crimping effort, eliminating trial-and-error crimping.

*Automatically convert inches to millimeters and vice-versa so that no calculation is ever required.*

### KEY FEATURES

7.5 HP Power Source

High speed pump

Capable of crimping up to 2" 6-spiral Hydraulic and 4" Industrial Hose

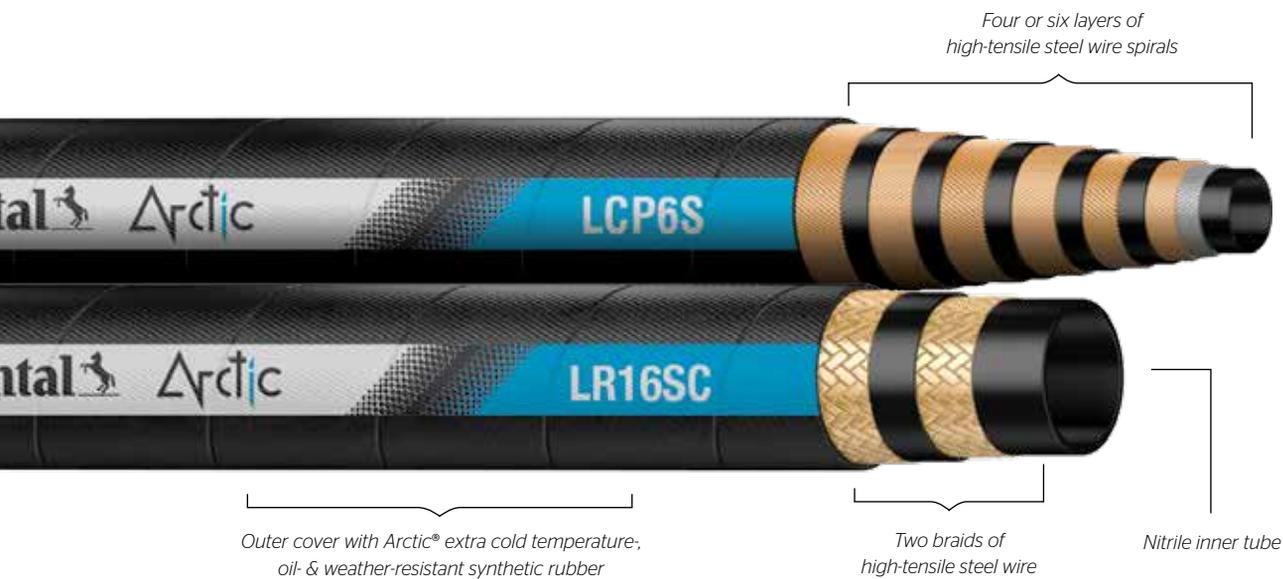




## NEW LOW TEMP HOSE RATED TO -70°F

### STAY TOUGH IN THE MOST EXTREME CONDITIONS

You demand a lot from your hydraulic hose. That's why we put so much into making ours the longest lasting, strongest, most dependable hose available. Only our constant pressure LCPS spiral hose has our exclusive Arctic® tube and cover compound, which outperforms the competition in low temperature performance and flexibility. It's also MSHA-compliant, chemical- and oil-resistant and performs in even the harshest temperatures and weather conditions.



# Connected Crimper Line

## PROVIDING SMART SOLUTIONS BEYOND RUBBER

Continental has invested millions of dollars into our hose, fitting and hose equipment plants. These state-of-the-art facilities produce products that are second to none and will help us meet your needs for today and tomorrow.



## CrimplIQ™ Controller

Continental's CrimplIQ™ Controller is powered by Continental Fluid Solutions technology, which provides direct access to all crimping features and information. It supports a user-friendly interface to guide new and advanced users through the crimping process quickly and easily.

### › WiFi-enabled for support, updates, reporting and cloud connectivity

*Note: Internet connection required to take full advantage of crimper features*

### KEY FEATURES

- › 10" high-resolution touch screen monitor
- › "Simple crimp" step approach
- › Individual user preference settings
- › Integrated calipers (Bluetooth or USB) to automatically send crimp measurements
- › Cloud backup
- › Dynamic machine maintenance tracking

## CONTROL PANEL ICONS



BEGIN CRIMPING

*Easy step-by-step crimp operation, supported with always up-to-date crimp specs*



SUPPORT

*Get support within the application (automatically uploads machine status with support request)*



FAVORITES

*Ability to easily favorite up to thousands of crimp specifications, complete with notes for easy reference and accurate crimping*



MACHINE INFORMATION

*Dynamic machine maintenance tracking, ensuring that crimper maintenance occurs at the proper time*



TRAINING MANUALS

*Integrated training and manuals, allowing for easy education*



CLOUD

*Connection to the cloud, allowing for production-run information and comprehensive backup*

# SHOP IN A BOX SOLUTIONS MADE EASY

Continental's PC125 Shop in a Box solution has everything you need to get your crimping operation up and running, almost instantly. Just unload the box and start making premium assemblies. The only thing that you have to supply is the operator.

## WHAT'S INCLUDED?

- › PC125-RCD SKIT (1)  
(includes dies, shelf and calipers)
- › HS150 Hose Saw (1)
- › Hose Helper
- › SG Insertion Block (1)
- › B2 Insertion Block (1)
- › Paint Markers (4)
- › Fitting Bin (1)
- › Fitting Bin Boxes (2)
- › Work Table (96 x 36 in.)
- › Tape Measure (2)
- › Hose Reel Rack (1)
- › Work Light
- › Continental Air Hose & Nozzle
- › Power Strip
- › CrimplIQ™ Tablet

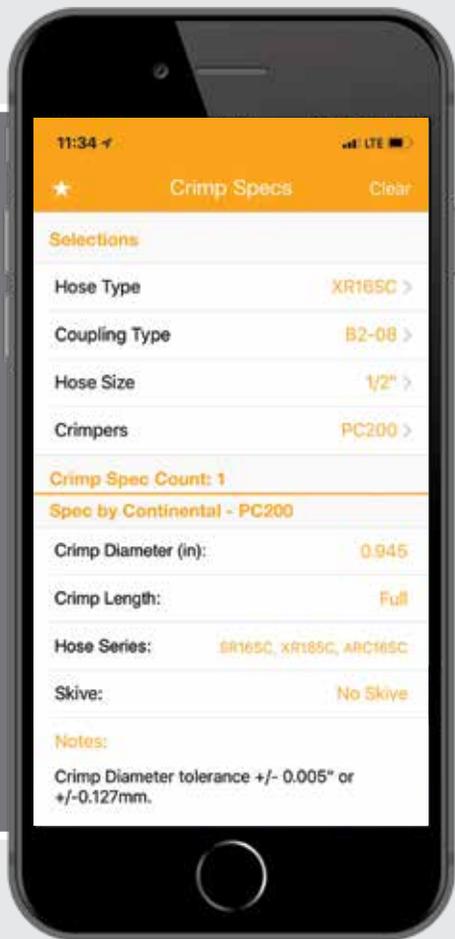


## Mobile Services

### GET THE MOST UP-TO-DATE SPECIFICATIONS

The **MyCrimp™** application provides users with up-to-date specifications to properly crimp Continental hydraulic hose and fittings. Users can search by hose style, coupling style, hose size and crimper. The application contains all the information required to properly set up and crimp the desired hose and fitting.





The new app features the same data you're accustomed to seeing, but now at your fingertips. And never wonder again if it is the most up-to-date version.

Search the app store for: **MyCrimp/Contitech**  
 Download today for free!



> **APPLE APP**



> **ANDROID APP**

## INNOVATIVE DISTRIBUTOR SOLUTIONS

At Continental, we're relentless in our drive to move business forward in revolutionary ways. That's why we developed Conti Fluid Solutions, part of a global vision to find and create connections allowing us to develop unmatched, often custom solutions.



INDUSTRIAL HOSE  
 VIRTUAL CATALOG



HOSE SELECT



COMPETITIVE  
 ADVANTAGE



HYDRAULICS  
 VIRTUAL CATALOG



BIN LABEL



HOSE TRACKER

We take innovation beyond the limits of today's technology and bring tomorrow closer. Access cutting-edge intel and insight, and go beyond anything you've ever imagined. Register today for Continental Distributor access at [www.contifluidsolutions.com](http://www.contifluidsolutions.com).

# Hydraulic Hose Line



**XR16SC**  
SAE 100R16  
EN 857 2SC  
› High-pressure applications with tight bends



ID 1/4" - 2"



**XCP3**  
SAE 100R17  
› 1- or 2-braid hose  
› High-pressure applications requiring superior abrasion-resistance



ID 1/4" - 1"



**Armorcoat™ ACP3**  
SAE 100R17  
› High-pressure applications requiring superior abrasion-resistance



ID 1/4" - 1"



**XCP4**  
SAE 100R19  
ISO 11237  
› High-pressure applications  
› Excellent impulse performance



ID 1/4" - 3/4"



**Armorcoat™ ACP4**  
SAE 100R19  
› High-pressure applications requiring superior abrasion-resistance



ID 1/4" - 3/4"



**XCP3S**  
SAE 100R12  
Constant Pressure  
› 4- or 6-spiral hose  
› Very high-pressure applications



ID 1 1/4" - 2"



**XCP4S**  
SAE 100R12  
Constant Pressure  
› 4- or 6-spiral hose  
› Very high-pressure pulsating applications



ID 3/8" - 2"



**XCP5S**  
SAE 100R13  
Constant Pressure  
› 4- or 6-spiral hose  
› Very high-pressure applications subject to surges or flexing



ID 3/8" - 2"



**XCP6S**  
SAE 100R15  
Constant Pressure  
› 4- or 6-spiral hose  
› Very high-pressure applications subject to surges or flexing



ID 3/8" - 2"



**Armorcoat™ ARC16SC**  
SAE 100R16  
EN 857 2SC  
› High-pressure applications with tight bends



ID 1/4" - 1"



**Armorcoat™ ARC12**  
SAE 100R12  
EN 856 R12  
› Very high-pressure applications subject to surges or flexing



ID 3/8" - 2"



**Armorcoat™ ARC13**  
SAE 100R13  
› 4- or 6-spiral hose  
› Very high-pressure applications subject to surges or flexing



ID 3/4" - 2"



**Armorcoat™ ARC15**  
SAE 100R15  
› Severe high-pressure and abrasive applications



ID 1/2" - 1"



**Desert® DR1SN**  
SAE 100R1AT  
EN 856 1SN  
› 1-braid hose  
› Meets higher EN/DIN pressures



ID 1/4" - 2"



**Desert® DR2SN**  
SAE 100R2AT  
EN 853 2SN  
› 2-braid hose  
› Meets higher EN/DIN pressures



ID 1/4" - 2"



**Desert® DR16SC**  
SAE 100R16  
› 2-braid hose  
› Excellent impulse performance



ID 1/4" - 1"

HOSE

Continental

LOOK FOR HIGHLIGHTED ATTRIBUTES



**Desert® DR5**  
SAE 100R5  
SAE J1942  
› Reinforced with 1 braid of textile and 1 braid of steel



ID 3/16" - 1 1/16"



**Desert® DUT**  
SAE J1402 Type A1  
› Medium-pressure hose for fleet applications



ID 3/16" - 1 1/2"



**HR6**  
SAE 100R6  
EN 854 R6  
› Handles high temperatures  
› Made for textile reinforced applications



ID 1/4" - 3/4"



**Arctic® LR16SC**  
SAE 100R16  
EN 857 2SC  
› 1-braid hose  
› Meets higher EN/DIN pressures  
› Handles low temperatures



ID 1/4" - 1"



**Arctic® LR2SN**  
SAE 100R2AT  
EN 856 2SN  
› Made for hydraulic oil lines  
› Handles low temperatures



ID 1/4" - 2"



**Arctic® LCP3**  
SAE 100R17  
› Made for hydraulic oil lines  
› Handles low temperatures



ID 1/4" - 1/2"



**Arctic® LCP4S**  
SAE 100R12  
EN 856 4SH  
› Made for hydraulic oil lines  
› Handles low temperatures



ID 3/8" - 1 1/4"



**Arctic® LCP6S**  
SAE 100R15  
EN 856 4SP  
› Made for hydraulic oil lines  
› Handles low temperatures



ID 3/8" - 1 1/4"



**SR1SN**  
SAE 100R1AT  
EN 853 1SN  
› 1-braid hose  
› Meets higher EN/DIN pressures

ID 3/16" - 2"



**SR2SN**  
SAE 100R2AT  
EN 856 2SN  
› 2-braid hose  
› Meets higher EN/DIN pressures

ID 3/16" - 2"



**SR16SC**  
SAE 100R16  
EN 857 2SC  
› High-pressure applications with tight bends



ID 1/4" - 1 1/4"



**SCP3**  
SAE 100R17  
› 1- or 2-braid hose  
› High-pressure applications with tight bends



ID 1/4" - 1"



**SR3**  
SAE 100R3  
EN 854 R3  
› Reinforced with 2 textile braids

ID 1/4" - 1"



**SR5**  
SAE 100R5  
› For general purpose medium-pressure applications

ID 3/16" - 1 1/2"



**SR6**  
SAE 100R6  
EN 854 R6  
› Made for textile-reinforced applications

ID 3/16" - 3/4"



**SR12**  
SAE 100R12  
EN 856 R12  
› Very high-pressure applications subject to surges or flexing

ID 3/8" - 2"



# Hydraulic Hose Line



**SR13**  
SAE 100R13  
EN 856 R13  
› 4- or 6-spiral hose  
› Very high-pressure applications subject to surges or flexing

ID 3/4" - 2"



**SR15**  
SAE 100R15  
› 4- or 6-spiral hose  
› Severe high-pressure applications

ID 1/2" - 2"



**S4SH**  
EN 856 4SH  
DIN 20023 4SH  
› Very high-pressure pulsating applications

ID 3/4" - 2"



**S4SP**  
EN 856 4SP  
DIN 20023 4SP  
› Very high-pressure applications

ID 3/8" - 1"



**SGUN**  
Grease Gun Hose  
› Made for general purpose lubrication



ID 3/16"



**SHJ**  
Jack Hose  
› Made for high-pressure hydraulic jacking systems



ID 1/4" - 3/8"



**Saflex® (NSFX)**  
› Medium-pressure applications where shock hazards exist  
› Non-conductive



ID 1/4" - 1/2"



**SR14A**  
SAE 100R14A  
› PTFE line hose for air compressor discharge  
› Chemical-resistant



ID 3/16" - 1"



**SFS**  
Fire Suppression  
› Medium-pressure applications  
› Made for mining, forestry and firefighting equipment



ID 1/4" - 1"



**Prospector™ BOP 3000**  
Blowout Prevention  
› Made for hydraulic connections in oil and gas exploration

ID 3/8" - 1"



**Prospector™ BOP 5000**  
Blowout Prevention  
› Made for hydraulic connections in oil and gas exploration

ID 3/8" - 2"



**Prospector™ Hot Oiler**  
Static Pressure  
› Made to initiate the flow of hot oil and bring it to the surface



ID 1 1/2"



**MIL-DTL-13444H**  
Type I  
Military  
› Made for hydraulic oil and fuel lines

ID 3/16" - 3/4"



**MIL-DTL-13444H**  
Type III  
Military  
› Made for medium-pressure hydraulic oil and fuel lines

ID 3/16" - 1 1/2"



**MIL-DTL-13531**  
Type II, Class A  
Military  
› Made for medium- and high-pressure hydraulic systems

ID 3/16" - 1"



**MIL-DTL-3992**  
Type I, Class I  
Military  
› Made for low-pressure flexible connections in air brake systems

ID 3/8" - 1/2"

HOSE

Continental

LOOK FOR HIGHLIGHTED ATTRIBUTES



**MIL-DTL-8788**  
**Military**  
 › High-pressure applications requiring interoperability

ID 7/32" - 7/8"



**Insta-Grip™ 300**  
**Push-On**  
 › 300 psi maximum working pressure  
 › Non-conductive

 ID 1/4" - 1"



**Insta-Grip™ TC**  
**Push-On**  
 › Low-pressure applications

ID 1/4" - 3/4"



**Insta-Grip™ HT 300**  
**Push-On**  
 › 300 psi maximum working pressure

 ID 1/4" - 3/4"



**FXG**  
**Push-On**  
 › 400 psi maximum working pressure  
 › Non-conductive

 ID 3/16" - 1"



**SR7**  
**SAE 100R7**  
**EN 855 R7**  
 › Medium-pressure thermoplastic hose with a perforated cover

 ID 1/8" - 1"



**SR8**  
**SAE 100R8**  
**EN 855 R8**  
 › Thermoplastic hose with a perforated cover

ID 3/16" - 1/2"



**NR7**  
**SAE 100R7**  
 › Medium-pressure thermoplastic hose

 ID 1/8" - 1"



**NR8**  
**SAE 100R8**  
 › High-pressure thermoplastic hose

 ID 1/4" - 1/2"



**TR7**  
**SAE 100R7**  
 › Twin-line  
 › Medium-pressure thermoplastic hose with a perforated cover

ID 3/16" - 1/2"



**TR8**  
**SAE 100R8**  
 › Twin-line  
 › Thermoplastic hose with a perforated cover

ID 3/8" - 1/2"



**BR7**  
**SAE 100R7**  
 › Twin-line  
 › Medium-pressure thermoplastic hose

 ID 1/4" - 1/2"



**SR18**  
**SAE 100R18**  
 › Thermoplastic hose  
 › Extremely flexible in cold temperatures

 ID 1/4" - 1/2"



**HR4**  
**SAE 100R4**  
 › Return or suction line hose  
 › Handles high temperature

 ID 3/4" - 4"



# Fittings and Adapters

## ONE SOURCE, MANY SELECTIONS.

We are your one source for a wide selection of high-performance hydraulic hose fittings, covering a wide range of designs, configurations, sizes and pressure ratings.

### INDUSTRY-LEADING FITTINGS

Crimped, Field-Grip™ (Re-attachable), Push-On and Air Conditioning

### THREADS THAT MEET EVERY APPLICATION NEED

SAE, NPTF, JIC, British Standard, DIN, JIS and API

### HIGH-PERFORMANCE END STYLES

Straights, Swivels, Elbows and Flanges



## BENEFITS & FEATURES

### Full-Length Crimp

Maximum coupling retention for a safe and longer-lasting assembly; easier to crimp with a lower profile.

### Adapters

Complete line of adapters to change existing end styles to meet your application needs.



### No Skive

Assemblies made faster, with fewer steps and less mess.

### Zinc Plating

- › Offers corrosion resistance for extended hose assembly and fitting life, easily surpassing the corrosion resistance of **SAE J516** and **ASTM B117**.
- › Silver Chromium-6 Free plating on Ultra-Crimp™, Uni-Crimp and Dual-Grip™ fittings.



**FITTINGS**

**Continental** 

## FITTING STYLES

### High Pressure Bite-to-Wire Fittings

Continental's crimp fittings provide maximum coupling retention on 1- and 2-braid hose as well as 4- and 6-spiral hose. Serrations penetrate the cover with a powerful bite into the wire reinforcement, resulting in even hose compression.



### Field-Grip™ Fittings

Non-skive, reattachable for easy installation on DR5 and SR5 (SAE 100R5) hose.



### Push-On Fittings

Fittings compatible with Continental push-on hose, including Insta-Grip™ 300, Insta-Grip™ TC, Insta-Grip™ HT 300 and FLEXAGrip™ 300.



## QUICK DISCONNECT COUPLINGS



Continental is partnering with a leading innovator in the hose coupling industry - Dixon Quick Coupling, a division of Dixon Valve. This partnership helps us provide you with a broad line of high-quality quick disconnect couplings.

Together, Continental and Dixon will coordinate resources to give you access to industry-leading market knowledge, engineering excellence from state-of-the-art American facilities and superior service.



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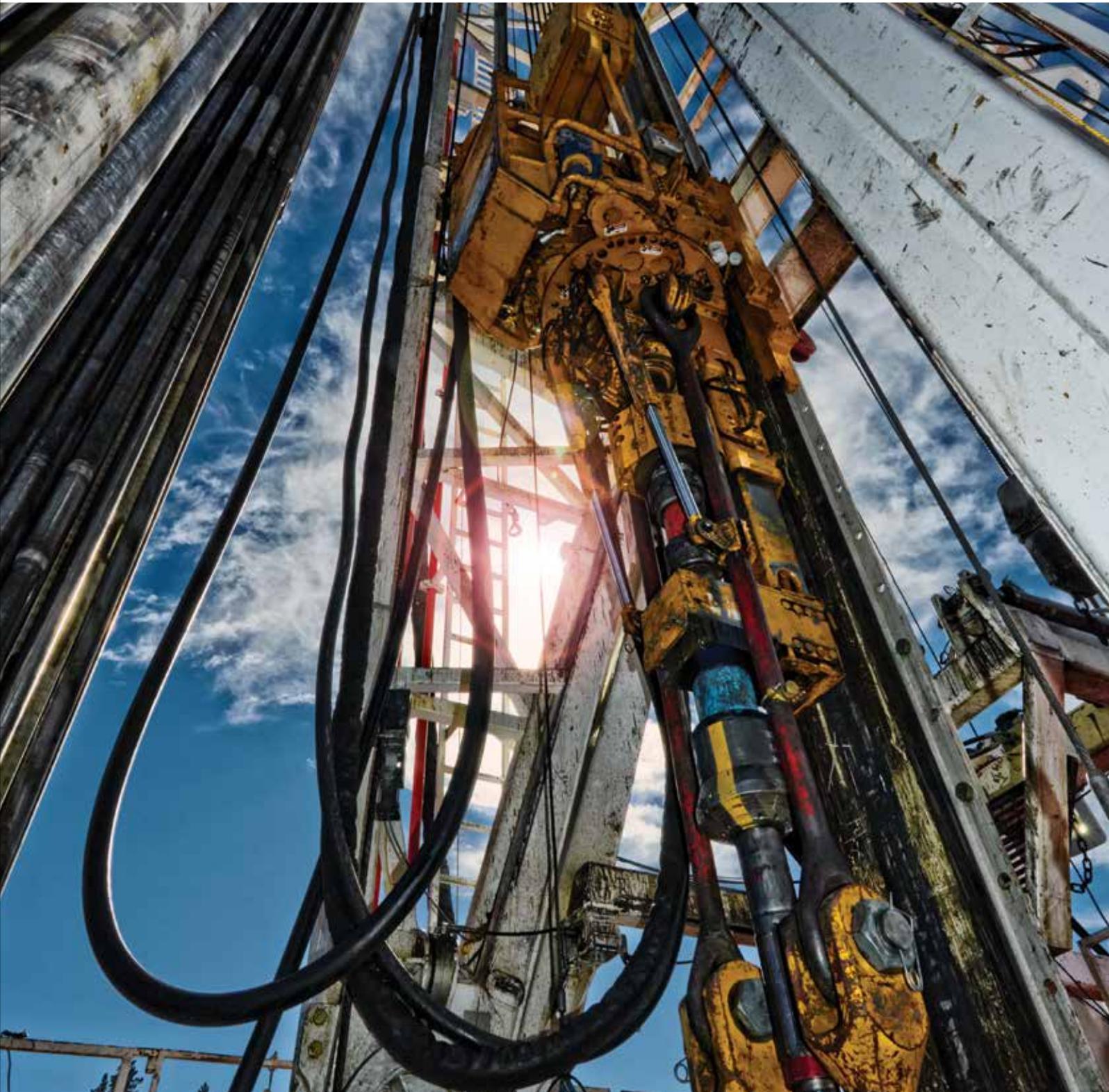
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# HOSE





## Hydraulic Hose and Fitting Products

### Proper Assembly of Continental Hose and Fittings

Continental hose, fittings and crimping equipment work together to provide an efficient and reliable hose connection. Hose and fittings are part of an engineered system and are to be assembled in accordance with Continental specifications. Using non-Continental components may produce an assembly that does not meet rated performance. **Continental does not warrant, expressly or by implication, hose assemblies that do not incorporate Continental hose and fittings or are not crimped in accordance with Continental process specifications.**

Buyers may elect to attach additional or non-standard parts or equipment, or to use different manufacturing specifications, as necessary to meet the requirements of the buyer or customer's application. In such cases, the buyer has sole responsibility to qualify the hose for these applications as necessary to ensure performance capability.

For guidance in the assembly of Continental hose and couplings, please refer to the Continental Crimp Specifications Manual. Information in this catalog is believed to be accurate, but is not warranted and is subject to change without prior notice. For the most current available product and crimp specifications information, please check our website: [www.continental-industry.com](http://www.continental-industry.com).

### Warning - Selection of Hose

Selection of the proper hose for the application is essential to the proper operation and safe use of the hose and related equipment. Inadequate attention to selection of the hose for your application can result in hose leakage, bursting or other failure, which can cause serious bodily injury or property damage from spraying fluids or flying projectiles. Some of the factors involved in the selection of the proper hose include:

- › Hose Size
- › Fluid Conveyed
- › Hose Pressure
- › Hose Length
- › Bends
- › Static Head Pressure
- › Hose Ends
- › Temperature
- › Installation Design

The above factors and information provided in this catalog should be considered in selecting the proper hose for your application.

# HOSE

**Continental** 

# Layline Updates

## BIGGER, BOLDER, SIMPLER.

Our hydraulic hose laylines have been updated to include the most significant information about the hose, on the hose. Special icons make it quicker and easier to identify a hose's length, corresponding fittings and attributes. To top it off, new logos give more of an edge to our branding.



## How to Read a Layline



**LOOK FOR HIGHLIGHTED ATTRIBUTE**  
New attribute indicators for key features.

### HOSE ATTRIBUTES

- High / Low Temperature
- Constant Pressure
- Extended Life™ Cover
- ARMORCOAT™ Resistance
- Flame Resistance
- Non-Conductive / Conductive
- Ultra-Flexible
- 1/2 Bend Radius

**Layline Updates**  
How to Read a Layline



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# Hydraulic Hose Nomenclature

EXAMPLE: **D - R2SN - 12**

## HOSE ATTRIBUTE

## HOSE SPECIFICATION

## HOSE DASH SIZE

### First Character of Part Number

H	High Temperature (Desert®), 275°F
L	Low Temperature (Arctic®)
A	Abrasion Cover (Armorcoat™)
N	Non-conductive
T	Twin-Line
B	Both Non-Conductive and Twin-Line
S	Standard Specification Hose
D	High Temperature (Desert®), 302°F
X	Extended Life™ Abrasion Resistance Cover

Note: Push-On Hose (IG, IGHT, IGTC) and Military Hose (MIL, M) do not have a one-digit Hose Attribute character.

### Next 2-5 Characters of Part Number, Before Hyphen

R1SN	SAE 100R1AT/1SN
FS	Fire Suppression (SAE 100R1AT/1SN)
R2SN	SAE 100R2AT/2SN
R3	SAE 100R3/EN 854 R3
R4	SAE 100R4
R5	SAE 100R5
UT	Universal Truck Hose (SAE J1402 A1)
R6	SAE 100R6/854 R6
R7	SAE 100R7/855 R7
SFX	Saflex®
R8	SAE 100R8/855 R8
4SH	EN 856 4SH/DIN 20023 4SH
4SP	EN 856 4SP/DIN 20023 4SP
R12	SAE 100R12/856 R12
R13	SAE 100R13/856 R13
R14A	SAE 100R14
R15	SAE 100R15
R16SC	SAE 100R16/857 2SC
CP3	SAE 100R17
CP4	SAE 100R19/ISO 11237
CP5	SAE 100R13
CP6	SAE 100R15/EN 856 4SP
CP3S	SAE 100R12
CP4S	SAE 100R12/EN 856 4SH
CP5S	SAE 100R13
CP6S	SAE 100R13/EN 856 4SP
R18	SAE 100R18
BOP	Prospector™ BOP 3000, 5000
GUN	Grease Gun Hose
HJ	Jack Hose
IG	Insta-Grip™ 300 (Push-On)
IGTC	Insta-Grip™ TC (Push-On)
IGHT	Insta-Grip™ HT 300 (Push-On)
FXG	FLEXAGrip™ (Push-On)
M / MIL	Military Hose

### Last 2 Characters of Part Number, After Hyphen (Hose Inside Diameter)

All hose except R5 and UT:

02	1/8" (32 mm)
03	3/16" (4.8 mm)
04	1/4" (6.4 mm)
05	5/16" (7.9 mm)
06	3/8" (9.5 mm)
08	1/2" (12.7 mm)
10	5/8" (15.9 mm)
12	3/4" (19 mm)
16	1" (25.4 mm)
20	1 1/4" (31.8 mm)
24	1 1/2" (38.1 mm)
32	2" (50.8 mm)
40	2 1/2" (63.5 mm)
48	3" (76.2 mm)
56	3 1/2" (89 mm)
64	4" (101.6 mm)

SAE 100R5 and UT hose:

04	3/16" (4.8 mm)
05	1/4" (6.4 mm)
06	5/16" (7.9 mm)
08	13/32" (10.3 mm)
10	1/2" (12.7 mm)
12	5/8" (15.9 mm)
14	3/4" (19.1 mm)
16	7/8" (22.2 mm)
20	1 1/8" (28.6 mm)
24	1 3/8" (35 mm)
32	1 3/4" (46 mm)

Note: Military Hose utilize unique military dash sizes.

## HOSE



## General Information

Hose Nomenclature



## EXCEEDING HYDRAULIC HOSE STANDARDS

When the job requires tight bends, flexibility and abrasion resistance, this high-pressure service hose steps up to the task. Using a nitrile inner tube and two-wire, high-tensile steel reinforcement, it can handle 5,800 psi (31 MPa) flows of petroleum- and water-based hydraulic fluids.

### ~~LIFE~~™ EXTENDED LIFE™

	Page	Construction	Inner Tube	Working Pressure (psi)	Temperature Range	Fitting Series	Approvals	Packaging
<b>EXTENDED LIFE™ XR16SC</b>	32	Wire braid	Nitrile	2250-5800	-40°F to 212°F	B2	MSHA, SAE 100R16, EN 857 2S	<b>04-16:</b> 250' Reel; 50' Box; Bulk Carton <b>20-32:</b> 50', 100' or 200' Coil

~~LIFE~~™ EXTENDED LIFE™

**HOSE**  
**Continental**

# Extended Life™ XR16SC

Extended Life™ XR16SC is for high-pressure service with tight bends needing abrasion resistance and flexibility. It is made for use with petroleum- and water-based hydraulic fluids. This hose has excellent impulse performance and flexibility, exceeding SAE 100R2 and SAE 100R16 standards.



## PERFORMANCE + SPECS

Meets or exceeds the performance requirements of:

**SAE 100R16**  
**EN 857 2SC**

Meets flame resistance  
**USMSHA Designation**

Meets higher  
**EN/DIN Pressures**

**Inner Tube** NBR (Nitrile)

**Reinforcement**  
Two braids of high-tensile steel wire

**Cover**  
Black synthetic rubber with extra abrasion-, oil- and weather-resistance

**Temperature Range**  
-40°F to 212°F (-40°C to 100°C)

## KEY FEATURES

 Extended Life™ Cover

 Made for tight bends

 SAE J1942/  
U.S. Coast Guard

 4:1 Safety Factor

## BRANDING



X-Life™ XR16SC-08

SAE 100R16 / EN 857 2SC  
1/2" (DN12)

5000 PSI  
34.5 MPa

MSHA 2G-1C-14C/37

MADE  
IN USA

#	SAP	Hose Size ID	Hose OD		Max. Working Pressure		Min. Bend Radius		Weight	Fitting
			in.	mm	psi	MPa	in.	mm		
XR16SC-04	20693982	1/4	0.54	13.70	5800	40.0	2.0	51	0.18	B2
XR16SC-06	20693983	3/8	0.70	17.70	5000	34.5	2.5	64	0.27	B2
XR16SC-08	20693984	1/2	0.81	20.60	5000	34.5	3.5	89	0.36	B2
XR16SC-10	20693985	5/8	0.95	24.20	4000	30.0	4.0	102	0.41	B2
XR16SC-12	20693987	3/4	1.10	28.00	3500	24.1	5.0	127	0.55	B2
XR16SC-16	20693988	1	1.40	35.50	3000	20.6	6.0	152	0.83	B2
XR16SC-20	20899538	1 ¼	1.74	44.3	2250	15.5	8.25	210	1.12	B2
XR16SC-24	21010293	1 ½	1.98	50.3	2000	13.8	9.84	250	1.31	B2SC
XR16SC-32	21010296	2	2.52	64.1	1600	11.0	12.52	318	1.83	B2

HOSE



**Extended Life™ XR16SC**  
High Pressure

### Compatible Fittings

All fittings compatible with XR16SC are listed in Section 1 (starting on page 131).



## CONSISTENT PERFORMANCE UNDER PRESSURE



### CONSTANT PRESSURE

	Page	Construction	Inner Tube	Working Pressure (psi)	Temperature Range	Fitting Series	Approvals	Packaging
<b>BRAID</b>								
<b>EXTENDED LIFE™ XCP3</b>	34	Wire braid	Nitrile	3250	-40°F to 212°F	B2	MSHA, SAE 100R17, USCG	250' or 1000' Reel; 50' Box; Bulk Carton
<b>ARMORCOAT™ ACP3</b>	35	Wire braid	Nitrile	3250	-40°F to 212°F	B2	MSHA, SAE 100R17	250' Reel; 250' Box; Bulk Carton
<b>EXTENDED LIFE™ XCP4</b>	36	Wire braid	Nitrile	4060	-40°F to 212°F	B2	MSHA, SAE 100R19, ISO 11237 R19	250' Reel; 50' Box
<b>ARMORCOAT™ ACP4</b>	37	Wire braid	Nitrile	4060	-40°F to 212°F	B2	MSHA, SAE 100R19	250' Reel; 250' Box
<b>SPIRAL</b>								
<b>XCP3S</b>	38	Spiral	Synthetic Rubber	3100	-40°F to 250°F	SG	MSHA, SAE 100R12, USCG	50', 100' or 200' Coil
<b>XCP4S</b>	39	Spiral	Synthetic Rubber	4100	-40°F to 250°F	SG	MSHA, SAE 100R12, EN 856 4SH, ABS, USCG*	50', 100' or 200' Coil
<b>XCP5S</b>	40	Spiral	Synthetic Rubber	5100	-40°F to 250°F	SG	MSHA, SAE 100R13, USCG, ABS	50', 100' or 200' Coil
<b>XCP6S</b>	41	Spiral	Synthetic Rubber	6100	-40°F to 250°F	SG	MSHA, SAE 100R15, EN 856 4SP, USCG, ABS	50', 100' or 200' Coil

\*XCP4S-24 and -32 is pending USCG approval.



### CONSTANT PRESSURE

## HOSE



# Extended Life™ XCP3

Extended Life™ XCP3 is for high-pressure hydraulic applications needing abrasion resistance. This hose is designed for use where higher pressures and a more flexible hose are required.



## PERFORMANCE + SPECS

Meets or exceeds the performance requirements of:

**SAE 100R17**

Meets flame resistance

**USMSHA Designation**

### Inner Tube

(NBR) Nitrile

### Reinforcement

One braid of high-tensile steel wire. Sizes 5/8", 3/4" and 1" have a 2-wire braid.

### Cover

Black synthetic rubber with extra abrasion-, oil- and weather-resistance (more than 5 times the abrasion resistance over SCP3)

### Temperature Range

-40°F to 212°F (-40°C to 100°C)

## KEY FEATURES

 **Extended Life™ Cover**

 **Handles constant pressure**

 **SAE J1942/ U.S. Coast Guard**

 **4:1 Safety Factor**

 **500,000 impulse cycles tested**

## BRANDING



X-Life™ XCP3-08

SAE 100R17 / EN 857 2SC  
1/2" (DN12)

3250 PSI  
22.4 MPa

MSHA 2G-1C-14C/37

MADE  
IN USA

#	SAP	Hose Size ID	Hose OD		Max. Working Pressure		Min. Bend Radius		Weight	Fitting
Part Number	SAP Number	in.	in.	mm	psi	MPa	in.	mm	lbs./ft.	
XCP3-04	20738196	1/4	0.50	12.7	3250	22.4	1.5	38	0.11	B2
XCP3-06	20784065	3/8	0.65	16.5	3250	22.4	2.0	51	0.17	B2
XCP3-08	20774712	1/2	0.78	19.8	3250	22.4	2.8	71	0.28	B2
XCP3-10	20777228	5/8	0.95	24.1	3250	22.4	3.0	76	0.41	B2
XCP3-12	20777501	3/4	1.13	28.7	3250	22.4	3.8	97	0.55	B2
XCP3-16	20774714	1	1.44	36.6	3250	22.4	4.5	114	0.82	B2

HOSE



## Extended Life™ XCP3

Constant Pressure / High Pressure

### Compatible Fittings

All fittings compatible with Extended Life™ XCP3 are listed in Section 1 (starting on page 131).

# Armorcoat™ ACP3

Armorcoat™ ACP3 is made for high-pressure hydraulic applications designed to replace SAE 100R17 where higher pressures, increased flexibility and maximum abrasion resistance are required.



## PERFORMANCE + SPECS

Meets or exceeds the performance requirements of:

**SAE 100R17**

Meets flame resistance

**USMSHA Designation**

### Inner Tube

NBR (Nitrile)

### Reinforcement

One braid of high-tensile steel wire  
 Sizes 5/8", 3/4" and 1" have a 2-wire braid.

### Cover

Black synthetic rubber with Armorcoat™

### Temperature Range

-40°F to 212°F (-40°C to 100°C)

## KEY FEATURES

-  **Armorcoat™ abrasion-resistant cover**
-  **Handles constant pressure**
-  **4:1 Safety Factor**
-  **500,000 impulse cycles tested**

## BRANDING

 **ARMORCOAT™ ACP3-08** SAE 100R17 Super Abrasion Cover 1/2" (DN12) **3250 PSI** 22.4 MPa 224 BAR **MSHA 2G-1C-14C/43** MADE IN USA

#	SAP	Hose Size ID	Hose OD							
Part Number	SAP Number	Hose Size ID	Hose OD	Max. Working Pressure	Min. Bend Radius	Weight	Fitting			
		in.	in.	mm	psi	MPa	in.	mm	lbs./ft.	
ACP3-04	20706539	1/4	0.50	12.8	3250	22.4	1.5	38	0.11	B2
ACP3-06	20706643	3/8	0.65	16.5	3250	22.4	2.0	51	0.17	B2
ACP3-08	20706648	1/2	0.79	19.9	3250	22.4	2.8	71	0.28	B2
ACP3-10	20870407	5/8	0.95	24.1	3250	22.4	3.0	76	0.41	B2
ACP3-12	21002020	3/4	1.13	28.7	3250	22.4	3.8	96.5	0.53	B2
ACP3-16	21002025	1	1.44	36.6	3250	22.4	4.5	114.3	0.92	B2

**Armorcoat™ ACP3**  
 High Pressure

### Compatible Fittings

All fittings compatible with Armorcoat™ ACP3 are listed in Section 1 (starting on page 131).

# Extended Life™ XCP4

Extended Life™ XCP4 is made for very high-pressure hydraulic applications requiring extra abrasion resistance. This hose has excellent impulse performance and flexibility.



## PERFORMANCE + SPECS

Meets or exceeds the performance requirements of:

**SAE 100R19**  
**ISO 11237 R19**

Meets flame resistance  
**USMSHA Designation**

**SAE J1942/U.S. Coast Guard**

**Inner Tube** NBR (Nitrile)

### Reinforcement

Two braids of high-tensile steel wire

### Cover

Black synthetic rubber with superior abrasion-, oil- and weather-resistance

### Temperature Range

-40°F to 212°F (-40°C to 100°C)

## KEY FEATURES

~~X~~**LIFE™** Extended Life™ Cover

 Handles constant pressure

**4:1** 4:1 Safety Factor

 SAE J1942/  
U.S. Coast Guard

## BRANDING



X-Life™ XCP4-08

SAE 100R19  
ISO 11237 / R19 12.5

4060 PSI 28.0 MPa  
280 BAR

MSHA 2G-1C-14C/37

MADE  
IN USA

#	SAP	Hose Size ID	Hose OD	Max. Working Pressure	Min. Bend Radius	Weight	Fitting			
Part Number	SAP Number	in.	in.	mm	psi	MPa	in.	mm	lbs./ft.	
XCP4-04	20827919	1/4	0.54	13.8	4060	28	2.0	50.8	0.26	B2
XCP4-06	20826087	3/8	0.69	17.6	4060	28	2.5	63.5	0.30	B2
XCP4-08	20828100	1/2	0.82	20.9	4060	28	3.5	88.9	0.42	B2
XCP4-10	20828101	5/8	0.95	24.2	4060	28	4.0	101.6	0.48	B2
XCP4-12	20826123	3/4	1.14	29.0	4060	28	5.0	127.0	0.66	B2

HOSE



## Extended Life™ XCP4

Constant Pressure / Very High Pressure

### Compatible Fittings

All fittings compatible with XCP4 are listed in Section 1 (starting on page 131).

# Armorcoat™ ACP4

Armorcoat™ ACP4 is made for very high-pressure hydraulic applications where maximum abrasion resistance is required. This hose has excellent impulse performance and flexibility.



## PERFORMANCE + SPECS

Meets or exceeds the performance requirements of:

**SAE 100R19**  
**ISO 11237**

Meets flame resistance  
**USMSHA Designation**

**Inner Tube**  
NBR (Nitrile)

### Reinforcement

Two braids of high-tensile steel wire

### Cover

Black synthetic rubber with Armorcoat™

### Temperature Range

-40°F to 212°F (-40°C to 100°C)

## KEY FEATURES

 **Armorcoat™**  
abrasion-resistant cover

 **Handles**  
constant pressure

 **4:1** 4:1 Safety Factor

 **Tested and validated to**  
500,000 impulse cycles  
per SAE 100R19

## BRANDING



**ARMORCOAT™ ACP4-08**

SAE 100R19 / ISO 11237 R19 12.5  
Super Abrasion Cover

**4060 PSI** 28.0 MPa  
280 BAR

**MSHA 2G-1C-14C/37**

MADE  
IN USA

#	SAP	Hose Size ID	Hose OD	Max. Working Pressure	Min. Bend Radius	Weight	Fitting			
Part Number	SAP Number	in.	in.	mm	psi	MPa	in.	mm	lbs./ft.	
ACP4-04	20932847	1/4	0.54	13.8	4060	28	2.0	50.8	0.26	B2
ACP4-06	20932924	3/8	0.69	17.6	4060	28	2.5	63.5	0.30	B2
ACP4-08	20932946	1/2	0.82	20.9	4060	28	3.5	88.9	0.42	B2
ACP4-10	20932980	5/8	0.95	24.2	4060	28	4.0	101.6	0.48	B2
ACP4-12	20932986	3/4	1.14	29.0	4060	28	5.0	127.0	0.66	B2

**Armorcoat™ ACP4**  
High Pressure

### Compatible Fittings

All fittings compatible with Armorcoat™ ACP4 are listed in Section 1 (starting on page 131).

**HOSE**



# XCP3S

XCP3S is made for high-pressure hydraulic applications requiring extra abrasion resistance. This hose has excellent impulse performance and flexibility.



## PERFORMANCE + SPECS

Meets or exceeds the performance requirements of: **SAE 100R12**

Bend radius up to 1/2 that of SAE

Flame-resistant **MSHA compliant cover**

**Color-coded pressure range system** for easy identification

**XCP3S** Maximum Working Pressure 3100 psi

### Inner Tube

Synthetic rubber

### Reinforcement

Four alternating layers of spiraled high-tensile wire

### Cover

Black synthetic rubber with extra abrasion-, oil- and weather-resistance

### Temperature Range

-40°F to 250°F (-40°C to 131°C)

## KEY FEATURES

~~X-LIFE™~~ Extended Life™ Cover

 Handles constant pressure

 1/2 Bend

 4:1 Safety Factor

 U.S. Coast Guard

## BRANDING

 X-Life™ XCP3S-20 SAE 100R12 1 1/4" (R12) 3100 PSI 21 MPa 213.73 BAR Flame Resistant MSHA 2G-1C-14C/45

#	SAP	Hose Size ID	Hose OD	Max. Working Pressure	Min. Bend Radius	Weight	Fitting
Part Number	SAP Number	in.	in.	psi	in.	lbs./ft.	
XCP3S-20	20901269	1 ¼	1.85	3100	16.5	1.70	SG
XCP3S-24	20921135	1 ½	2.11	3100	19.6	2.05	SG
XCP3S-32	20921137	2	2.63	3100	24.8	2.82	SG

## HOSE



## XCP3S

Constant Pressure / High Pressure

### Compatible Fittings

All fittings compatible with XCP3S are listed in Section 2 (starting on page 179).

# XCP4S

XCP4S is for very high-pressure hydraulic applications requiring extra abrasion resistance. It has excellent impulse performance and flexibility.



## PERFORMANCE + SPECS

Meets or exceeds the performance requirements of: **SAE 100R12, EN 856 4SH**

Bend radius up to 1/2 that of SAE

Flame-resistant **MSHA compliant cover**

**Color-coded pressure range system** for easy identification

**XCP4S** Maximum Working Pressure 4100 psi

**Inner Tube**  
Synthetic rubber

**Reinforcement**  
Four or six alternating layers of spiraled high-tensile steel wire

**Cover**  
Black synthetic rubber with extra abrasion-, oil- and weather-resistance

**Temperature Range**  
-40°F to 250°F (-40°C to 131°C)

## KEY FEATURES

-  **Extended Life™ Cover**
-  **Handles constant pressure**
-  **1/2 Bend**
-  **4:1 Safety Factor**
-  **U.S. Coast Guard**

## BRANDING

 **X-Life™ XCP4S-08** SAE 100R12 / EN 856 1/2" (R12) **4100 PSI** 28 MPa 280 BAR **Flame Resistant** **MSHA 2G-1C-14C/45**

										
Part Number	SAP Number	Hose Size ID	Hose OD	Max. Working Pressure	Min. Bend Radius	Weight	Fitting			
		in.	in.	mm	psi	MPa	in.	mm	lbs./ft.	
XCP4S-06	20854290	3/8	0.80	20.25	4100	28	2.6	65	0.40	SG
XCP4S-08	20854291	1/2	0.94	23.8	4100	28	3.5	90	0.52	SG
XCP4S-10	20854292	5/8	1.08	27.4	4100	28	3.9	100	0.70	SG
XCP4S-12	20854293	3/4	1.21	30.7	4100	28	4.7	120	0.90	SG
XCP4S-16	20864021	1	1.50	38.0	4100	28	5.9	150	1.20	SG
XCP4S-20	20867345	1 ¼	1.79	45.5	4100	28	10.6	270	1.71	SG
XCP4S-24	20867346	1 ½	2.11	53.5	4100	28	13.0	330	2.19	SG
XCP4S-32	20882961	2	2.59	65.9	4100	28	24.8	630	3.23	SG

## XCP4S

Constant Pressure / Very High Pressure

### Compatible Fittings

All fittings compatible with XCP4S are listed in Section 2 (starting on page 179).

## HOSE



# XCP5S

XCP5S is made for very high-pressure hydraulic applications requiring extra abrasion resistance. This hose has excellent impulse performance and flexibility.



## PERFORMANCE + SPECS

Meets or exceeds the performance requirements of: **SAE 100R13**

Bend radius up to 1/2 that of SAE

Flame-resistant **MSHA compliant cover**

**Color-coded pressure range system** for easy identification

**XCP5S** Maximum Working Pressure 5100 psi

### Inner Tube

Synthetic rubber

### Reinforcement

Four or six alternating layers of spiraled high-tensile steel wire

### Cover

Black synthetic rubber with extra abrasion-, oil- and weather-resistance

### Temperature Range

-40°F to 250°F (-40°C to 131°C)

## KEY FEATURES

**X-LIFE™** Extended Life™ Cover

 Handles constant pressure

 1/2 Bend

 4:1 Safety Factor

 U.S. Coast Guard

## BRANDING

 **X-Life™ XCP5S-08** SAE 100R13 / EN 856 1/2" (R13) **5100 PSI** 35 MPa 350 BAR Flame Resistant **MSHA 2G-1C-14C/45**

#	SAP	Hose Size ID	Hose OD	Max. Working Pressure	Min. Bend Radius	Weight	Fitting			
Part Number	SAP Number	in.	in.	mm	psi	MPa	in.	mm	lbs./ft.	
XCP5S-06	20882963	3/8	0.84	21.4	5100	35	3.5	90	0.48	SG
XCP5S-08	20879434	1/2	0.97	24.6	5100	35	3.5	90	0.58	SG
XCP5S-10	20882965	5/8	1.11	28.2	5100	35	4.7	120	0.79	SG
XCP5S-12	20864025	3/4	1.27	32.2	5100	35	4.7	120	0.98	SG
XCP5S-16	20867348	1	1.52	38.7	5100	35	5.9	150	1.42	SG
XCP5S-20	20879437	1 ¼	1.79	45.5	5100	35	10.7	270	1.71	SG
XCP5S-24	20864029	1 ½	2.28	57.8	5100	35	19.6	500	3.35	S6, SE
XCP5S-32	20867503	2	2.80	71.1	5100	35	24.8	630	4.76	S6, SE

## HOSE



## XCP5S

Constant Pressure / Very High Pressure

### Compatible Fittings

SG fittings are listed in Section 2 (page 179).

S6 fittings are listed in Section 3 (page 216).

# XCP6S

XCP6S is for very high-pressure hydraulic applications requiring extra abrasion resistance. It has excellent impulse performance and flexibility.



## PERFORMANCE + SPECS

Meets or exceeds the performance requirements of: **SAE 100R15, EN 856 4SP**

Bend radius up to 1/2 that of SAE

Flame-resistant **MSHA compliant cover**

**Color-coded pressure range system** for easy identification

**XCP6S** Maximum Working Pressure 6100 psi

**Inner Tube**  
Synthetic rubber

**Reinforcement**  
Four or six alternating layers of spiraled high-tensile steel wire

**Cover**  
Black synthetic rubber with extra abrasion-, oil- and weather-resistance

**Temperature Range**  
-40°F to 250°F (-40°C to 131°C)

## KEY FEATURES

-  **Extended Life™ Cover**
-  **Handles constant pressure**
-  **1/2 Bend**
-  **4:1 Safety Factor**
-  **U.S. Coast Guard**

## BRANDING

 **X-Life™ XCP6S-08** SAE 100R15 / EN 856 1/2" (R15) **6100 PSI** 42 MPa 420 BAR **Flame Resistant** **MSHA 2G-1C-14C/45**

#	SAP	Hose Size ID	Hose OD	Max. Working Pressure	Min. Bend Radius	Weight	Fitting			
Part Number	SAP Number	in.	in.	mm	psi	MPa	in.	mm	lbs./ft.	
XCP6S-06	20882967	3/8	0.84	21.4	6100	42	3.5	90	0.48	SG
XCP6S-08	20879438	1/2	0.97	24.6	6100	42	3.5	90	0.58	SG
XCP6S-10	20889839	5/8	1.04	26.5	6100	42	4.7	120	0.73	SG
XCP6S-12	20864030	3/4	1.27	32.2	6100	42	4.7	120	1.09	SG
XCP6S-16	20879440	1	1.53	38.9	6100	42	5.9	150	1.46	SG
XCP6S-20	20882970*	1 ¼	1.89	45.0	6100	42	17.5	445	2.41	SG
XCP6S-24	20864033	1 ½	2.20	55.8	6100	42	20.8	530	3.02	SE
XCP6S-32	20880050	2	2.86	72.7	6100	42	24.8	630	4.76	SE

## XCP6S

Constant Pressure / Very High Pressure

### Compatible Fittings

SG fittings are listed in Section 2 (page 179).  
SE fittings are listed in Section 3 (page 216).

## HOSE





ABRASION IS THE ENEMY. FIGHT IT FULLY ARMED.



## ARMORCOAT™

	Page	Construction	Inner Tube	Working Pressure (psi)	Temperature Range	Fitting Series	Approvals	Packaging
<b>ARMORCOAT™ ARC16SC</b>	43	Wire braid	Nitrile	3000-5800	-40°F to 212°F	B2	MSHA, SAE 100R16, EN 857 2SC	250' Reel; 50' or 250' Box
<b>ARMORCOAT™ ARC12</b>	44	Wire braid	Polychloro- prene	2550-4100	-40°F to 250°F	B2, SG	MSHA, SAE 100R12, EN 856 R12	50', 100' or 200' Coil
<b>ARMORCOAT™ ARC13</b>	45	Wire braid	Polychloro- prene	5100	-40°F to 250°F	SG, S6, DG	MSHA, SAE 100R13, EN 856 R13	50', 100' or 200' Coil
<b>ARMORCOAT™ ARC15</b>	46	Wire braid	Polychloro- prene	6100	-40°F to 250°F	SG	MSHA, SAE 100R15	50', 100' or 200' Coil

**HOSE**



**ARMORCOAT™**

# Armorcoat™ ARC16SC

Armorcoat™ ARC16SC is made for high-pressure service with tight bends for petroleum- and water-based hydraulic fluids where maximum abrasion resistance is required. This hose has excellent impulse performance and flexibility exceeding SAE 100R2 and SAE 100R16 standards.



## PERFORMANCE + SPECS

Meets or exceeds the performance requirements of:

**SAE 100R16**  
**EN 857 2SC**

Meets flame resistance  
**USMSHA Designation**

Meets higher  
**EN/DIN Pressures**

**Inner Tube**  
NBR (Nitrile)

**Reinforcement**  
Two braids of high-tensile steel wire

**Cover**  
Black synthetic rubber with Armorcoat™

**Temperature Range**  
-40°F to 212°F (-40°C to 100°C)

## KEY FEATURES

 **Armorcoat™**  
abrasion-resistant cover

 **4:1** Safety Factor

## BRANDING

 **ARMORCOAT™ ARC16SC-08** SAE 100R16 / EN 857 2SC Super Abrasion Cover 1/2" (DN12) **5000 PSI** 34.5 MPa 345 BAR **MSHA 2G-1C-14C/43** **MADE IN USA**

#	SAP	Hose Size ID	Hose OD	Max. Working Pressure	Min. Bend Radius	Weight	Fitting			
Part Number	SAP Number	in.	in.	mm	psi	MPa	in.	mm	lbs./ft.	
ARC16SC-04	20731686	1/4	0.52	13.2	5800	40.0	2.0	51	0.232	B2
ARC16SC-06	20731831	3/8	0.67	17.0	5000	34.5	2.5	64	0.316	B2
ARC16SC-08	20730593	1/2	0.81	20.6	5000	34.5	3.5	89	0.377	B2
ARC16SC-10	20733777	5/8	0.92	23.4	4350	30.0	4.0	102	0.418	B2
ARC16SC-12	20733779	3/4	1.08	27.4	3500	24.1	5.0	127	0.564	B2
ARC16SC-16	20731835	1	1.40	35.5	3000	20.6	6.0	152	0.885	B2

**Armorcoat™ ARC16SC**  
High Pressure

### Compatible Fittings

All fittings compatible with ARC16SC are listed in Section 1 (starting on page 131).

**HOSE**



# Armorcoat™ ARC12

Armorcoat™ ARC12 is for very high-pressure applications subject to surges or flexing, such as construction equipment, mining and the high-performance industrial market where maximum abrasion resistance is required.



## PERFORMANCE + SPECS

Meets or exceeds the performance requirements of:

**SAE 100R12**  
**EN 856 R12**

Meets flame resistance  
**USMSHA Designation**

**Inner Tube**  
CR (Polychloroprene)

### Reinforcement

Four alternating layers of spiraled high-tensile steel wire

### Cover

Black synthetic rubber with Armorcoat™

### Temperature Range

-40°F to 250°F (-40°C to 121°C)

## KEY FEATURES

 **Armorcoat™**  
abrasion-resistant cover

 **1/2 Bend (3/8" - 3/4")**

 **4:1** Safety Factor

## BRANDING



**ARMORCOAT™ ARC12-08**

SAE 100R12 / EN 856  
Abrasion Cover

1/2"  
(DN12)

**4100 PSI**

28 MPa  
280 BAR

**MSHA 2G-1C-14C/37**

#	SAP	Hose Size ID	Hose OD		Max. Working Pressure		Min. Bend Radius		Weight	Fitting
Part Number	SAP Number	in.	in.	mm	psi	MPa	in.	mm	lbs./ft.	
ARC12-06	20715103	3/8	0.80	20.2	4100	28.0	2.5	64	0.44	SG
ARC12-08	20715104	1/2	0.94	23.8	4100	28.0	3.5	90	0.55	SG
ARC12-10	20729170	5/8	1.11	28.2	4100	28.0	3.9	100	0.72	SG
ARC12-12	20715106	3/4	1.21	30.7	4100	28.0	4.7	120	0.82	SG
ARC12-16	20715107	1	1.50	38.0	4100	28.0	11.8	300	1.21	SG
ARC12-20	20729173	1 ¼	1.85	47.0	3050	21.0	16.5	420	1.65	B2
ARC12-24	20729174	1 ½	2.10	53.4	2550	17.6	19.7	500	2.19	B2
ARC12-32	20729175	2	2.63	66.7	2550	17.6	25.0	635	3.13	B2

**HOSE**



**Armorcoat™ ARC12**

Very High Pressure

### Compatible Fittings

B2 fittings can be found in Section 1 (page 131).  
SG fittings can be found in Section 2 (page 179).

# Armorcoat™ ARC13

Armorcoat™ ARC13 is for very high-pressure applications subject to surges or flexing, such as construction equipment, mining and the high-performance industrial market where maximum abrasion resistance is required.



## PERFORMANCE + SPECS

Meets or exceeds the performance requirements of:

**SAE 100R13**  
**EN 856 R13**

Meets flame resistance  
**USMSHA Designation**

**Inner Tube**  
CR (Polychloroprene)

### Reinforcement

Four alternating layers of spiraled high-tensile steel wire (sizes 3/4" and 1")

Six alternating layers of spiraled high-tensile steel wire (sizes 1/4", 1/2" and 2")

### Cover

Black synthetic rubber with Armorcoat™

### Temperature Range

-40°F to 250°F (-40°C to 121°C)

## KEY FEATURES

 **Armorcoat™**  
abrasion-resistant cover

 **4:1** 4:1 Safety Factor

## BRANDING

 **ARMORCOAT™ ARC13-12** SAE 100R13 / EN 856 Abrasion Cover 3/4" (DN19) **5100 PSI** 35 MPa 350 BAR **MSHA 2G-1C-14C/37**

											
Part Number	SAP Number	Hose Size ID	in.	in.	mm	psi	MPa	in.	mm	lbs./ft.	Fitting
ARC13-12	20715111	3/4	1.26	32.1	5100	35.0	9.5	240	0.97	SG	
ARC13-16	20715112	1	1.51	38.5	5100	35.0	11.8	305	1.30	SG	
ARC13-20	20715113	1 ¼	1.96	49.8	5100	35.0	16.5	420	1.73	S6	
ARC13-24	20715114	1 ½	2.26	57.3	5100	35.0	19.7	500	3.27	DG	
ARC13-32	20715115	2	2.80	71.1	5100	35.0	25.2	640	4.43	N/A	

**Armorcoat™ ARC13**  
Very High Pressure

### Compatible Fittings

SG fittings are listed in Section 2 (starting on page 179).  
S6 and DG fittings are listed in Section 3 (page 216).

**HOSE**



# Armorcoat™ ARC15

Armorcoat™ ARC15 is designed specifically to handle severe high-pressure applications where pressure spikes or constant hydrostatic loads are present and maximum abrasion resistance is required.



## PERFORMANCE + SPECS

Meets or exceeds the performance requirements of:

**SAE 100R15**

Meets flame resistance

**USMSHA Designation**

### Inner Tube

CR (Polychloroprene)

### Reinforcement

Four alternating layers of spiraled high-tensile steel wire

### Cover

Black synthetic rubber with Armorcoat™

### Temperature Range

-40°F to 250°F (-40°C to 121°C)

## KEY FEATURES



Armorcoat™  
abrasion-resistant cover



4:1 Safety Factor

## BRANDING



**ARMORCOAT™ ARC15-08**

SAE 100R15  
Abrasion Cover

1/2"  
(DN12)

**6100 PSI** 42 MPa  
420 BAR

**MSHA 2G-1C-14C/43**

#	SAP	Hose Size ID	Hose OD		Max. Working Pressure		Min. Bend Radius		Weight	Fitting
Part Number	SAP Number	in.	in.	mm	psi	MPa	in.	mm	lbs./ft.	
ARC15-08	20714906	1/2	1.06	26.8	6100	42.0	8.0	200	0.59	N/A
ARC15-12	20714907	3/4	1.27	32.2	6100	42.0	10.5	265	1.08	SG
ARC15-16	20714908	1	1.53	38.8	6100	42.0	13.0	330	1.48	SG

**HOSE**



## Armorcoat™ ARC15

Very High Pressure

### Compatible Fittings

All fittings compatible with Armorcoat™ ARC15 are listed in Section 2 (starting on page 179).



## HIGHER TEMPERATURES ARE NO SWEAT

### DESERT HIGH TEMPERATURE

	Page	Construction	Inner Tube	Working Pressure (psi)	Temperature Range	Fitting Series	Approvals	Packaging
<b>DR1SN</b>	48	Wire braid	Chlorinated Polyethylene	580-5075	-40°F to 302°F	B2	MSHA, SAE 100R1AT, USCG	<b>04-16:</b> 250' Reel <b>20-32:</b> 100' Coil
<b>DR2SN</b>	49	Wire braid	Chlorinated Polyethylene	1160-5800	-40°F to 302°F	B2	MSHA, SAE 100R2AT, EN 853 2SN, USCG	<b>04-16:</b> 250' Reel; 50' Box <b>20-32:</b> 50' or 100' Coil
<b>DR16SC</b>	50	Wire braid	Chlorinated Polyethylene	3000-5075	-40°F to 302°F	B2	MSHA, SAE 100R16, EN 857 2SC, USCG	250' Reel
<b>DR5</b>	51	Wire braid	Chlorinated Polyethylene	350-3000	-40°F to 302°F Hydraulic	UC, FG	SAE 100R5, SAE J1402, DOT FMVSS 106	<b>04-20:</b> 250' Reel; 50' Box <b>20-32:</b> 131' Coil
<b>DUT</b>	52	Wire braid	Chlorinated Polyethylene	300-2000	-40°F to 200°F General Air	UT	SAE J1402, DOT FMVSS 106	250' Reel; 50' Box
<b>HR6</b>	53	Textile braid	Nitrile	300-400	-40°F to 275°F	UC	SAE 100R6, EN 854 R6	500' Reel; 50' Box

**DESERT** HIGH TEMPERATURE

**HOSE**  
Continental

# Desert® DR1SN

Desert® DR1SN is for medium-pressure hydraulic oil lines used in mobile, machine tool and agricultural applications where higher temperature petroleum- or water-based hydraulic fluids are a factor.



## PERFORMANCE + SPECS

Meets or exceeds the performance requirements of:

**SAE 100R1AT**  
**EN 853 1SN**

Meets flame resistance  
**USMSHA Designation**

Meets higher  
**EN/DIN Pressures**

### Inner Tube

CPE (Chlorinated Polyethylene)

### Reinforcement

One braid of high-tensile steel wire

### Cover

Blue CPE (Chlorinated Polyethylene)

### Temperature Range

-40°F to 302°F (-40°C to 150°C)

## KEY FEATURES



Handles high temperature



SAE J1942/  
U.S. Coast Guard



4:1 Safety Factor

## BRANDING



**DESERT® 2.0 DR1SN-08**

SAE 100R1AT / 1SN  
1/2" (DN12)

**4500 PSI** 16 MPA  
160 BAR

**MSHA 2G-1C-14C/37**

MADE  
IN USA

#	SAP	Hose Size ID	Hose OD		Max. Working Pressure		Min. Bend Radius		Weight	Fitting
			in.	mm	psi	MPa	in.	mm		
DR1SN-04	20786856	1/4	0.52	13.1	3270	22.5	4.0	102	0.15	B2
DR1SN-06	20777151	3/8	0.67	17.1	2615	18.0	5.0	127	0.22	B2
DR1SN-08	20752562	1/2	0.80	20.3	2320	16.0	7.0	178	0.28	B2
DR1SN-10	20777159	5/8	0.92	23.4	1890	13.0	8.0	203	0.33	B2
DR1SN-12	20780193	3/4	1.08	27.4	1530	10.5	9.5	241	0.41	B2
DR1SN-16	20777155	1	1.39	35.3	1280	8.8	12.0	305	0.62	B2
DR1SN-20	20776244	1 ¼	1.70	43.1	920	6.3	16.5	419	0.84	B2
DR1SN-24	20776245	1 ½	1.97	50.1	730	5.0	20.0	508	1.09	B2
DR1SN-32	20776246	2	2.50	63.6	580	4.0	25.0	635	1.34	B2

**HOSE**



**Desert® DR1SN**

Medium Pressure

### Compatible Fittings

All fittings compatible with Desert® DR1SN are listed in Section 1 (starting on page 131).

# Desert® DR2SN

Desert® DR2SN is for high-pressure hydraulic oil lines used in construction, machine tool and agricultural applications where higher temperature petroleum- or water-based hydraulic fluids are a factor.



## PERFORMANCE + SPECS

Meets or exceeds the performance requirements of:

**SAE 100R2AT**  
**EN 853 2SN**

Meets flame resistance  
**USMSHA Designation**

Meets higher  
**EN/DIN Pressures**

### Inner Tube

CPE (Chlorinated Polyethylene)

### Reinforcement

Two braids of high-tensile steel wire

### Cover

Blue CPE (Chlorinated Polyethylene)

### Temperature Range

-40°F to 302°F (-40°C to 150°C)

## KEY FEATURES

-  Handles high temperature
-  SAE J1942/  
U.S. Coast Guard
-  **4:1** 4:1 Safety Factor

## BRANDING

 **DESERT® 2.0 DR2SN-08** SAE 100R2AT 1/2" (DN12) **4000 PSI** 27.6 MPa 275.8 BAR **MSHA 2G-1C-14C/37** MADE IN USA

#	SAP	Hose Size ID	Hose OD	Max. Working Pressure	Min. Bend Radius	Weight	Fitting			
Part Number	SAP Number	in.	in.	mm	psi	MPa	in.	mm	lbs./ft.	
DR2SN-04	20698338	1/4	0.59	15.1	5800	40.0	4.0	102	0.24	B2
DR2SN-06	20698339	3/8	0.75	19.1	4800	33.1	5.0	127	0.34	B2
DR2SN-08	20698620	1/2	0.88	22.2	4000	27.6	7.0	178	0.43	B2
DR2SN-10	20698621	5/8	1.00	25.4	3630	25.0	8.0	203	0.50	B2
DR2SN-12	20698622	3/4	1.16	29.4	3120	21.5	9.5	241	0.61	B2
DR2SN-16	20698623	1	1.50	38.1	2400	16.5	12.0	305	0.88	B2
DR2SN-20	20732342	1 ¼	1.88	47.7	1820	12.5	16.5	419	1.52	B2
DR2SN-24	20732343	1 ½	2.13	54.1	1310	9.0	20.0	508	1.64	B2
DR2SN-32	20732344	2	2.63	66.7	1160	8.0	25.0	635	2.02	B2

**Desert® DR2SN**  
High Pressure

### Compatible Fittings

All fittings compatible with Desert® DR2SN are listed in Section 1 (starting on page 131).



# Desert® DR16SC

Desert® DR16SC is for high-pressure service with tight bends using petroleum- and water-based hydraulic fluids. It is meant for high temperature applications.



## PERFORMANCE + SPECS

Meets or exceeds the performance requirements of:

**SAE 100R16**  
**EN 857 2SC**

Meets flame resistance  
**USMSHA Designation**

Meets higher  
**EN/DIN Pressures**

### Inner Tube

CPE (Chlorinated Polyethylene)

### Reinforcement

Two braids of high-tensile steel wire

### Cover

Blue CPE (Chlorinated Polyethylene)

### Temperature Range

-40°F to 302°F (-40°C to 150°C)

## KEY FEATURES

-  Handles high temperature
-  Made for tight bends
-  SAE J1942/  
U.S. Coast Guard
-  4:1 Safety Factor

## BRANDING



DESERT® 2.0 DR16SC-08

SAE 100R16  
1/2" (DN12)

4500 PSI 34.5 MPa  
34.7 BAR

MSHA 2G-1C-14C/42

MADE  
IN USA

#	SAP	Hose Size ID	Hose OD	Max. Working Pressure	Min. Bend Radius	Weight	Fitting			
Part Number	SAP Number	in.	in.	mm	psi	MPa	in.	mm	lbs./ft.	
DR16-04*	20778355	1/4	0.54	18.8	5075	35.0	2.0	50.8	0.23	B2
DR16SC-06	20755831	3/8	0.70	17.8	5000	34.5	2.5	63.5	0.33	B2
DR16SC-08	20755835	1/2	0.82	20.9	4500	30.1	3.5	88.9	0.43	B2
DR16SC-10	20961024	5/8	0.95	24.4	4000	27.6	4.0	102.0	0.41	B2
DR16SC-12	20755850	3/4	1.10	28.0	3500	24.1	5.0	127.0	0.61	B2
DR16SC-16	20776987	1	1.42	35.9	3000	20.6	6.0	152.4	0.94	B2

\*DR16-04 working pressure does not meet SAE 100R16 or EN 857 2SC requirements.

## HOSE



**Desert® DR16SC**  
High Pressure

### Compatible Fittings

All fittings compatible with Desert® DR16SC are listed in Section 1 (starting on page 131).

# Desert® DR5

Desert® DR5 is a high-temperature, medium-pressure hose for use in applications including turbocharger oil lines, tilt cab cylinder and air brake lines, transmission coolant and filtration lines. It is compatible with petroleum oil and phosphate ester-based hydraulic fluids, air, water, diesel fuel, petroleum-based lubricating oils and coolants.



## PERFORMANCE + SPECS

Meets or exceeds the performance requirements of:

- SAE 100R5**
- DOT FMVSS 106 Type All**
- SAE J1402 Type All**

Note: Sizes 7/8" (-16) and 1 1/8" (-20) do not meet DOT FMVSS 106 Type All and SAE J1402 Type All because these sizes are not listed in the referenced specifications.

**Inner Tube** CPE (Chlorinated Polyethylene)

### Reinforcement

One braid of textile, one braid of steel

### Cover

Blue impregnated textile braid

### Temperature Range

SAE 100R5 hydraulic applications:  
-40°F to 302°F (-40°C to 150°C)

Air brake and general air applications:  
-40°F to 200°F (-40°C to 93°C)

General hot oil applications:  
-40°F to 302°F (-40°C to 150°C)

Water applications:  
-40°F to 212°F (-40°C to 100°C)

## KEY FEATURES



**Handles high temperature**



**4:1 4:1 Safety Factor**



**SAE J1942/ U.S. Coast Guard**  
Requires GTEX protective sleeving.

## BRANDING

**Continental** **DR5-10** **SAE 100R5 / DOT FMVSS 106 All J1402 AIR BRAKE** **1/2" (12.7 MM)** **1750 PSI (12.1 MPa)** **MADE IN USA**

#	SAP	Hose Size ID	Hose OD	Max. Working Pressure	Min. Bend Radius	Weight	Fitting			
Part Number	SAP Number	in.	in.	mm	psi	MPa	in.	mm	lbs./ft.	
DR5-04	20340705	3/16	0.52	13.2	3000	20.7	3.0	76	0.15	UC, FG
DR5-05	20341023	1/4	0.58	14.8	3000	20.7	3.4	86	0.18	UC, FG
DR5-06	20340706	5/16	0.68	17.1	2250	15.5	4.0	102	0.22	UC, FG
DR5-08	20340707	13/32	0.77	19.5	2000	13.8	4.5	117	0.30	UC, FG
DR5-10	20340708	1/2	0.92	23.4	1750	12.1	5.5	140	0.37	UC, FG
DR5-12	20341025	5/8	1.08	27.4	1500	10.3	6.5	165	0.45	UC, FG
DR5-16	20340709	7/8	1.24	31.4	800	5.5	7.4	187	0.47	UC, FG
DR5-20	20368015	1 1/8	1.50	38.1	625	4.3	9.0	229	0.58	UC, FG
DR5-24	20918279	1 3/8	1.75	44.5	500	3.5	10.5	265	0.79	UC, FG
DR5-32	20919400	1 13/16	2.22	56.5	350	2.4	13.2	335	1.20	UC, FG

**Not recommended for under-the-hood, automotive and truck fuel line applications. Only hose designed and tested to meet SAE fuel line standards should be used for these applications.** \*Assemblies made with the Continental DR5 hose and Continental Field-Grip™ or Uni-Crimp™ fittings meet SAE J1402 and DOT FMVSS 571 106 specifications. Assemblies made with Uni-Crimp™ fittings also meet SAE J517 100R5 assembly requirements. Federal law requires registration with the Department of Transportation for anyone producing air brake hose assemblies.

**Desert® DR5**  
Fleet Application

### Compatible Fittings

UC fittings are listed in Section 5\* (starting on page 246).  
FG fittings are listed in Section 6\* (starting on page 283).

**HOSE**



# Desert<sup>®</sup> DUT

Desert<sup>®</sup> DUT is a high-temperature, medium-pressure hose for use in applications including turbocharger oil lines, tilt cab cylinder and air brake lines, transmission coolant and filtration lines. It is compatible with petroleum oil and phosphate ester-based hydraulic fluids, air, water, diesel fuel, petroleum-based lubricating oils and coolants.



## PERFORMANCE + SPECS

Meets or exceeds the performance requirements of:

**SAE J1402 Type AI**

**DOT FMVSS 106 Type AI**

Note: Sizes 7/8" (-16) and 1 1/2" (-20) do not meet DOT FMVSS 106 Type AI and SAE J1402 Type AI because these sizes are not listed in the referenced specifications.

**Inner Tube** CPE (Chlorinated Polyethylene)

### Reinforcement

One braid of textile, one braid of steel

### Cover

Blue impregnated textile braid

### Temperature Range

Air brake and general air applications:

-40°F to 200°F (-40°C to 93°C)

General hot oil applications:

-40°F to 302°F (-40°C to 150°C)

Water applications:

-40°F to 212°F (-40°C to 100°C)

## KEY FEATURES



Handles high temperature



4:1 Safety Factor

## BRANDING



**DUT-10**

SAE J1402 TYPE AI AIR BRAKE  
DOT FMVSS 106 AI

1/2" (12.7 MM)

1000 PSI (68.9 MPa)

MADE  
IN USA

#	SAP	Hose Size ID	Hose OD	Max. Working Pressure	Min. Bend Radius	Weight	Fitting			
Part Number	SAP Number	in.	in.	mm	psi	MPa	in.	mm	lbs./ft.	
DUT-04	20367570	3/16	0.49	12.4	2000	13.8	2.0	51	0.12	UT
DUT-05	20367574	1/4	0.55	14.0	1500	10.3	2.5	64	0.14	UT
DUT-06	20367576	5/16	0.62	15.7	1500	10.3	3.0	76	0.17	UT
DUT-08	20367577	13/32	0.74	18.8	1250	8.6	3.5	89	0.20	UT
DUT-10	20367578	1/2	0.83	21.1	1000	6.9	4.0	102	0.22	UT
DUT-12	20367579	5/8	0.96	24.4	750	5.2	4.5	114	0.24	UT
DUT-16	20424721	7/8	1.21	30.7	400	2.8	5.0	127	0.30	UT
DUT-20	20424722	1 1/2	1.49	37.8	300	2.1	5.5	140	0.44	UT

**Not recommended for under-the-hood, automotive and truck fuel line applications. Only hose designed and tested to meet SAE fuel line standards should be used for these applications.** Note: Federal law requires registration with the Department of Transportation for anyone producing air brake hose assemblies.

## HOSE



## Desert<sup>®</sup> DUT

Truck and Fleet Applications

### Compatible Fittings

All fittings compatible with Desert<sup>®</sup> DUT are listed in Section 8 (starting on page 302).

# HR6

HR6 is for use during low-pressure, textile reinforced applications that include petroleum and water-based fluids for use in power steering return, lube lines and air lines. HR6 is not intended for brake applications.



### PERFORMANCE + SPECS

Meets or exceeds the performance requirements of:

**SAE 100R6**  
**EN 854 R6**

**Inner Tube**  
NBR (Nitrile)

**Reinforcement**

One textile braid

**Cover**

Black CSM (Chlorosulfonated Polyethylene)

**Temperature Range**

-40°F to 275°F (-40°C to 135°C)

### KEY FEATURES



Handles high temperature



4:1 Safety Factor

### BRANDING



**HR6-08**

SAE 100R6 / EN 854 R6  
1/2" (DN12)

**400 PSI (2.8 MPa)**

MADE IN USA

#	SAP	Hose Size ID	Hose OD		Max. Working Pressure		Min. Bend Radius		Weight	Fitting
Part Number	SAP Number	in.	in.	mm	psi	MPa	in.	mm	lbs./ft.	
HR6-04	20687451	1/4	0.51	12.9	400	2.8	2.5	64	0.09	UC
HR6-05	20788391	5/16	0.57	14.5	400	2.8	3.0	76	0.09	UC
HR6-06	20687409	3/8	0.64	16.2	400	2.8	3.0	76	0.11	UC
HR6-08	20743641	1/2	0.77	19.6	400	2.8	4.0	102	0.16	UC
HR6-10	20616767	5/8	0.91	23.2	350	2.4	5.0	127	0.18	UC
HR6-12	20645813	3/4	1.06	26.9	300	2.1	6.0	152	0.25	UC

## HR6

Low Pressure

### Compatible Fittings

All fittings compatible with HR6 are listed in Section 5 (starting on page 242).

## HOSE





GET RELIABLE PERFORMANCE DOWN COLD

## Arctic LOW TEMPERATURE

	Page	Construction	Inner Tube	Working Pressure (psi)	Temperature Range	Fitting Series	Approvals	Packaging
<b>ARCTIC® LR16SC</b>	55	Wire braid	Nitrile	3000-5800	-70°F to 212°F	B2	MSHA, SAE 100R16, EN 857 2SC	250' Reel
<b>ARCTIC® LR2SN</b>	56	Wire braid	Nitrile	1160-5000	-70°F to 212°F	B2	MSHA, SAE 100R2AT, EN 853	<b>04-16:</b> 250' Reel <b>24-32:</b> 50', 100' or 200' Coil
<b>ARCTIC® LCP3</b>	57	Wire braid	Nitrile	3250	-70°F to 212°F	SG	MSHA, SAE 100R17	250' Reel
<b>ARCTIC® LCP4S</b>	58	4 wire spirals	Nitrile	4100	-70°F to 212°F	SG	MSHA, SAE 100R12, EN 856 4SH	50', 100' or 200' Coil
<b>ARCTIC® LCP6S</b>	59	4 or 6 wire spirals	Nitrile	6100	-70°F to 212°F	SG	MSHA, SAE 100R15, EN 856 4SP	50', 100' or 200' Coil

**HOSE**

**Continental**

Arctic LOW TEMPERATURE

# Arctic® LR16SC

Arctic® LR16SC is made for high-pressure service with tight bends for petroleum and water-based hydraulic fluids. It has excellent impulse performance and flexibility exceeding SAE 100R2 and SAE 100R16 standards.



## PERFORMANCE + SPECS

Meets or exceeds the performance requirements of:

**SAE 100R16**  
**EN 857 2SC**

Meets flame resistance  
**USMSHA Designation**

Meets higher  
**EN/DIN Pressures**

### Inner Tube

Black nitrile synthetic rubber

### Reinforcement

Two braids of high-tensile steel wire

### Cover

Black CR (Polychloroprene)

### Temperature Range

-70°F to 212°F (-57°C to 100°C)

## KEY FEATURES



Handles low temperature



Made for tight bends



4:1 Safety Factor

## BRANDING



**ARCTIC® LR16SC-08**

SAE 100R16 / EN 857 2SC  
1/2" (DN12)

**4500 PSI** 34.5 MPa  
345 BAR

**MSHA 2G-1C-14C/41**

MADE IN USA

#	SAP	Hose Size ID	Hose OD		Max. Working Pressure		Min. Bend Radius		Weight	Fitting
Part Number	SAP Number	in.	in.	mm	psi	MPa	in.	mm	lbs./ft.	
LR16SC-04	20977183	1/4	0.56	14.2	5800	40.0	2.0	51	0.28	B2
LR16SC-06	20977189	3/8	0.72	18.3	5000	34.5	2.5	64	0.33	B2
LR16SC-08	20901038	1/2	0.85	21.5	5000	31.0	3.5	89	0.38	B2
LR16SC-10	21008859	5/8	0.97	24.7	4000	27.6	4.0	102	0.46	B2
LR16SC-12	21009100	3/4	1.13	28.6	3500	24.1	5.0	127	0.59	B2
LR16SC-16	21009108	1	1.44	36.6	3000	20.7	6.0	152	1.06	B2

**Arctic® LR16SC**  
High Pressure

### Compatible Fittings

All fittings compatible with Arctic® LR16SC are listed in Section 1 (starting on page 131).

**HOSE**



# Arctic® LR2SN

Arctic® LR16SC is for high-pressure hydraulic oil lines used in construction, machine tool and agricultural applications where lower temperature petroleum- or water-based hydraulic fluids are a factor.



## PERFORMANCE + SPECS

Meets or exceeds the performance requirements of:

**SAE 100R2AT**  
**EN 853 2SN**

Meets flame resistance  
**USMSHA Designation**

Meets higher  
**EN/DIN Pressures**

**Inner Tube**  
NBR (Nitrile)

**Reinforcement**  
Two braids of high-tensile steel wire

**Cover**  
Black CR (Polychloroprene)

**Temperature Range**  
-70°F to 212°F (-57°C to 100°C)

## KEY FEATURES



Handles low temperature



4:1 Safety Factor

## BRANDING



**ARCTIC® LR2SN-08**

SAE 100R2AT / 2SN  
Low Temperature

1/2"  
(DN12)

**4000 PSI**

27.6 MPa  
275.7 BAR

**MSHA 2G-1C-14C/41**

MADE  
IN USA

#	SAP	Hose Size ID	Hose OD	Max. Working Pressure	Min. Bend Radius	Weight	Fitting			
Part Number	SAP Number	in.	in.	mm	psi	MPa	in.	mm	lbs./ft.	
LR2AT-04*	20239365	1/4	0.58	14.7	5000	34.5	4.0	102	0.24	B2
LR2SN-06	20728489	3/8	0.74	18.7	4800	33.1	5.0	127	0.34	B2
LR2SN-08	20728510	1/2	0.86	21.8	4000	27.6	7.0	178	0.43	B2
LR2SN-10	20728511	5/8	0.99	25.0	3630	25.0	8.0	203	0.50	B2
LR2SN-12	20728512	3/4	1.14	29.0	3120	21.5	9.5	241	0.61	B2
LR2SN-16	20728513	1	1.48	37.6	2400	16.5	12.0	305	0.88	B2
LR2SN-20	20757165	1 ¼	1.88	47.7	1820	12.5	16.5	419	1.52	B2
LR2SN-24	20757167	1 ½	2.13	54.1	1310	9.0	20.0	508	1.64	B2
LR2SN-32	20757168	2	2.63	66.7	1160	8.0	25.0	635	2.02	B2

\*LR2AT-04 working pressure does not meet EN 853 requirements.

**HOSE**



**Arctic® LR2SN**  
High Pressure

### Compatible Fittings

All fittings compatible with Arctic® LR2SN are listed in Section 1 (starting on page 131).

# Arctic® LCP3

Arctic® LCP3 is made for high-pressure service with tight bends for petroleum- and water-based hydraulic fluids.



## PERFORMANCE + SPECS

Meets or exceeds the performance requirements of:

**SAE 100R17**

Meets flame resistance

**USMSHA Designation**

### Inner Tube

Black nitrile synthetic rubber

### Reinforcement

One braid of high-tensile steel wire

### Cover

Black CR (Polychloroprene)

### Temperature Range

-70°F to 212°F (-57°C to 100°C)

## KEY FEATURES



Handles low temperature



Made for tight bends



4:1 Safety Factor

## BRANDING



**ARCTIC® LCP3-08**

SAE 100R17, DN12  
1/2"

**3250 PSI** 22.4 MPa  
224 BAR

**MSHA 2G-IC-14C/41**

MADE  
IN USA



**Part Number**



**SAP Number**



**Hose Size ID**



**Hose OD**



**Max. Working Pressure**



**Min. Bend Radius**



**Weight**



**Fitting**

		in.	in.	mm	psi	MPa	in.	mm	lb./ft.	
LCP3-04	21067732	1/4	0.50	12.7	3250	22.4	1.5	38	0.14	B2
LCP3-06	21067739	3/8	0.64	16.3	3250	22.4	2	51	0.22	B2
LCP3-08	21067784	1/2	0.79	19.9	3250	22.4	2.8	71	0.31	B2

## Arctic® LCP3

High Pressure

### Compatible Fittings

All fittings compatible with Arctic® LCP3 are listed in Section 1 (starting on page 131).

## HOSE



# Arctic® LCP4S

Arctic® LCP4S is made for high-pressure service with tight bends for petroleum- and water-based hydraulic fluids.



## PERFORMANCE + SPECS

Meets or exceeds the performance requirements of:

**SAE 100R12**  
**EN 856 4SH**

Meets flame resistance  
**USMSHA Designation**

### Inner Tube

Black nitrile synthetic rubber

### Reinforcement

Four or six layers of spiraled high-tensile steel wire

### Cover

Black CR (Polychloroprene)

### Temperature Range

-70°F to 212°F (-57°C to 100°C)

## KEY FEATURES



Handles low temperature



Made for tight bends



4:1 Safety Factor

## BRANDING



ARCTIC® LCP4S-12

SAE 100R12, EN 856  
1"

4100 PSI 28.0 MPa  
280 BAR

MSHA 2G-IC-14C/45

#	SAP	Hose Size ID	Hose OD		Max. Working Pressure		Min. Bend Radius		Weight	Fitting
Part Number	SAP Number	in.	in.	mm	psi	MPa	in.	mm	lb./ft.	
LCP4S-06	21057238	3/8	0.80	20.25	4100	28.0	2.6	65	0.40	SG
LCP4S-08	21065598	1/2	0.94	23.80	4100	28.0	3.5	90	0.52	SG
LCP4S-10	21065609	5/8	1.08	27.40	4100	28.0	3.9	100	0.70	SG
LCP4S-12	21057239	3/4	1.21	30.70	4100	28.0	4.7	120	0.90	SG
LCP4S-16	21065571	1	1.50	38.00	4100	28.0	5.9	150	1.20	SG
LCP4S-20	21058020	1 1/4	1.79	45.50	4100	28.0	10.6	270	1.71	SG

HOSE



**Arctic® LCP4S**  
High Pressure

### Compatible Fittings

All fittings compatible with Arctic® LCP4S are listed in Section 2 (starting on page 179).

# Arctic® LCP6S

Arctic® LCP6S is made for high-pressure service with tight bends for petroleum- and water-based hydraulic fluids.



## PERFORMANCE + SPECS

Meets or exceeds the performance requirements of:

**SAE 100R15**  
**EN 856 4SP**

Meets flame resistance  
**USMSHA Designation**

**Inner Tube**  
Black nitrile synthetic rubber

**Reinforcement**  
Four or six layers of spiraled high-tensile steel wire

**Cover**  
Black CR (Polychloroprene)

**Temperature Range**  
-70°F to 212°F (-57°C to 100°C)

## KEY FEATURES

-  Handles low temperature
-  Made for tight bends
-  4:1 Safety Factor

## BRANDING



**ARCTIC® LCP6S-12**

SAE 100R15, EN 856 / 4SP  
3/4"

**6100 PSI** 42.0 MPa  
420 BAR

**MSHA 2G-IC-14C/45**

										
Part Number	SAP Number	Hose Size ID	Hose OD		Max. Working Pressure		Min. Bend Radius		Weight	Fitting
		in.	in.	mm	psi	MPa	in.	mm	lb./ft.	
LCP6S-06	21058021	3/8	0.84	21.40	6100	42.0	3.5	90	0.48	SG
LCP6S-08	21065603	1/2	0.97	24.60	6100	42.0	3.5	90	0.58	SG
LCP6S-10	21065614	5/8	1.04	26.50	6100	42.0	4.7	120	0.73	SG
LCP6S-12	21058022	3/4	1.27	32.20	6100	42.0	4.7	120	1.09	SG
LCP6S-16	21065573	1	1.53	38.90	6100	42.0	5.9	150	1.46	SG
LCP6S-20	21058024	1 ¼	2.03	49.00	6100	42.0	17.5	445	2.41	SG

**Arctic® LCP6S**  
High Pressure

### Compatible Fittings

All fittings compatible with Arctic® LCP6S are listed in Section 2 (starting on page 179).

**HOSE**



## CLASSICS

	Page	Construction	Inner Tube	Working Pressure (psi)	Temperature Range	Fitting Series	Approvals	Packaging
<b>SR1SN</b>	61	Wire braid	Nitrile	580 - 3630	-40°F to 212°F	UC, B2	MSHA, SAR 100R1AT, EN 853 1SN, USCG	<b>03-20:</b> 250' Reel; 50' Box <b>24-32:</b> 100' or 200' Coil
<b>SR2SN</b>	62	Wire braid	Nitrile	1160 - 6000	-40°F to 212°F	UC, B2	MSHA, SAE 100R2AT, EN 853 2SN, USCG, ABS*	<b>03-16:</b> 250' Reel; 50' Box <b>20-32:</b> 100' or 200' Coil
<b>SR16SC</b>	63	Wire braid	Nitrile	1813 - 5800	-40°F to 212°F	B2	MSHA, SAE 100R16, EN 857 2SC, USCG	<b>04-16:</b> 250' Reel; 50' Box; Bulk Carton <b>20:</b> 200' Coil
<b>SCP3</b>	64	Wire braid	Nitrile	3045	-40°F to 212°F	B2	MSHA, SAE 100R17, USCG	250' Reel; 50' Box; Bulk Carton
<b>SR3</b>	65	Wire braid	Polychloroprene	565 - 1250	-40°F to 212°F	UC	MSHA, SAE 100R3, EN 854 R3	500' Reel; 50' Box
<b>SR5</b>	66	Wire braid	Nitrile	625 - 3000	-40°F to 212°F	UC, FG	SAE 100R5, SAE J1402, DOT FMVSS 106	250' Reel; 50' Box
<b>SR6</b>	67	Wire braid	Nitrile	300 - 500	-40°F to 212°F	UC	SAE 100R6, EN 854 R6	500' Reel; 50' Box
<b>SR12</b>	68	Spiral	Polychloroprene	2250 - 4100	-40°F to 250°F	SG, B2	MSHA, SAE 100R12, EN 856 R13, USCG	50', 100' or 200' Coil
<b>SR13</b>	69	Spiral	Polychloroprene	5100	-40°F to 250°F	SG, DG, S6	MSHA, SAE 100R13, EN 856 R13, USCG	50', 100' or 200' Coil
<b>SR15</b>	70	Spiral	Polychloroprene	6100	-40°F to 250°F	SG, DG	MSHA, SAE 100R5	50', 100' or 200' Coil
<b>S4SH</b>	71	Spiral	Nitrile	3650 - 6090	-40°F to 212°F	SG	MSHA, EN 856 4SH, DIN 20023 4SH	100' or 200' Coil
<b>S4SP</b>	72	Spiral	Nitrile	4640 - 6455	-40°F to 212°F	SG	MSHA, EN 856 4SP, DIN 20023 4SP	100' or 200' Coil

\*SR2SN -4 to -16 only are ABS approved.

# HOSE

## CLASSICS

# SR1SN

SR1SN is made for medium-pressure hydraulic applications including mobile, machine tool and agricultural applications, using petroleum or water-based hydraulic fluids.



## PERFORMANCE + SPECS

Meets or exceeds the performance requirements of:

**SAE 100R1AT**  
**EN 853 1SN**

Meets flame resistance  
**USMSHA Designation**

Meets higher **EN/DIN Pressures**

**Inner Tube** NBR (Nitrile)

**Reinforcement**  
One braid of high-tensile steel wire

**Cover**  
Black CR (Polychloroprene)

**Temperature Range**  
-40°F to 212°F (-40°C to 100°C)

## KEY FEATURES

 **SAE J1942/**  
**U.S. Coast Guard**

 **4:1** 4:1 Safety Factor

## BRANDING

 **SR1SN-08** **SAE 100R1AT / 1SN** **2320 PSI (16 MPa)** **MSHA 2G-14C/12** **MADE IN USA**  
1/2" (DN12)

										
Part Number	SAP Number	Hose Size ID	Hose OD	Max. Working Pressure	Min. Bend Radius	Weight	Fitting			
		in.	in.	mm	psi	MPa	in.	mm	lbs./ft.	
SR1SN-03	20239993	3/16	0.47	11.9	3630	25.0	3.5	89	0.12	UC
SR1SN-04	20240216	1/4	0.53	13.6	3270	22.5	4.0	102	0.15	B2
SR1SN-05	20240217	5/16	0.60	15.1	3120	21.5	4.5	114	0.17	B2
SR1SN-06	20240218	3/8	0.69	17.5	2615	18.0	5.0	127	0.22	B2
SR1SN-08	20240219	1/2	0.81	20.7	2320	16.0	7.0	178	0.28	B2
SR1SN-10	20240250	5/8	0.94	23.8	1890	13.0	8.0	203	0.33	B2
SR1SN-12	20240251	3/4	1.10	27.8	1530	10.5	9.5	241	0.41	B2
SR1SN-16	20240252	1	1.41	35.8	1280	8.8	12.0	305	0.62	B2
SR1SN-20	20708462	1 ¼	1.70	43.1	920	6.3	16.5	419	0.84	B2
SR1SN-24	20706727	1 ½	1.98	50.3	730	5.0	20.0	508	1.05	B2
SR1SN-32	20706728	2	2.51	63.8	580	4.0	25.0	635	1.48	B2

## SR1SN

Medium Pressure

### Compatible Fittings

UC fittings are listed in Section 5 (starting on page 246).  
B2 fittings are listed in Section 1 (starting on page 131).

## HOSE



# SR2SN

SR2SN is for high-pressure hydraulic oil lines used in construction, machine tool and agricultural applications using petroleum- or water-based hydraulic fluids. This hose features a vacuum rating of 28 in hg (sizes 3/16"-5/8") or 24 in hg (sizes 3/4"-1").



## PERFORMANCE + SPECS

Meets or exceeds the performance requirements of:

**SAE 100R2AT**  
**EN 853 2SN**

Meets flame resistance  
**USMSHA Designation**

Meets higher  
**EN/DIN Pressures**

**ABS Type Approved** 1/4" through 1"

**Inner Tube**  
NBR (Nitrile)

**Reinforcement**  
Two braids of high-tensile steel wire

**Cover**  
Black CR (Polychloroprene)

**Temperature Range**  
-40°F to 212°F (-40°C to 100°C)

## KEY FEATURES

-  SAE J1942/  
U.S. Coast Guard
-  4:1 Safety Factor
-  ABS Approved  
(-4 and -16 only)

## BRANDING

 **SR2SN-08** SAE 100R2AT / 2SN 1/2" (DN12) **4000 PSI** 27.6 MPa 275.7 BAR **MSHA 2G-14C/12** **MADE IN USA**

#	SAP	Hose Size ID	Hose OD		Max. Working Pressure		Min. Bend Radius		Weight	Fitting
Part Number	SAP Number	in.	in.	mm	psi	MPa	in.	mm	lbs./ft.	
SR2SN-03	20240253	3/16	0.48	12.3	6000	41.3	3.5	89	0.20	UC
SR2SN-04	20240254	1/4	0.59	15.1	5800	40.0	4.0	102	0.24	B2
SR2SN-06	20276604	3/8	0.75	19.1	4800	33.1	5.0	127	0.34	B2
SR2SN-08	20270619	1/2	0.88	22.2	4000	27.6	7.0	178	0.43	B2
SR2SN-10	20240257	5/8	1.00	25.4	3630	25.0	8.0	203	0.50	B2
SR2SN-12	20240258	3/4	1.16	29.4	3120	21.5	9.5	241	0.61	B2
SR2SN-16	20240259	1	1.50	38.1	2400	16.5	12.0	305	0.88	B2
SR2SN-20	20239362	1 ¼	1.86	47.2	1820	12.5	16.5	419	1.53	B2
SR2SN-24	20239363	1 ½	2.11	54.1	1310	9.0	20.0	508	1.64	B2
SR2SN-32	20239364	2	2.62	66.7	1160	8.0	25.0	635	2.02	B2

## HOSE



## SR2SN

High Pressure

### Compatible Fittings

UC fittings are listed in Section 5 (starting on page 246).  
B2 fittings are listed in Section 1 (starting on page 131).

# SR16SC

SR16SC is made for high-pressure service with tight bends using petroleum- and water-based hydraulic fluids. It has excellent impulse performance and flexibility exceeding SAE 100R2 and SAE 100R16 standards.



## PERFORMANCE + SPECS

Meets or exceeds the performance requirements of:

**SAE 100R16**  
**EN 857 2SC**

Meets flame resistance  
**USMSHA Designation**

Meets higher  
**EN/DIN Pressures**

**Inner Tube**  
NBR (Nitrile)

**Reinforcement**  
Two braids of high-tensile steel wire

**Cover**  
Black CR (Polychloroprene)

**Temperature Range**  
-40°F to 212°F (-40°C to 100°C)

## KEY FEATURES

 Made for tight bends

 SAE J1942/ U.S. Coast Guard

 4:1 Safety Factor

## BRANDING

 **SR16SC-08** SAE 100R16 / EN 857 2SC 1/2" (DN12) **5000 PSI (34.5 MPa)** MSHA 2G-1C-14C/37 **MADE IN USA**

#	SAP	Hose Size ID	Hose OD	Max. Working Pressure	Min. Bend Radius	Weight	Fitting			
Part Number	SAP Number	in.	in.	mm	psi	MPa	in.	mm	lbs./ft.	
SR16SC-04	20494340	1/4	0.54	13.7	5800	40.0	2.0	51	0.18	B2
SR16SC-06	20436685	3/8	0.70	17.7	5000	34.5	2.5	64	0.27	B2
SR16SC-08	20263798	1/2	0.81	20.6	5000	34.5	3.5	89	0.36	B2
SR16SC-10	20264959	5/8	0.95	24.2	4000	30.0	4.0	102	0.41	B2
SR16SC-12	20527916	3/4	1.10	28.0	3500	24.1	5.0	127	0.55	B2
SR16SC-16	20483278	1	1.40	35.5	3000	20.6	6.0	152	0.83	B2
SR16SC-20	20666436	1 1/4	1.74	44.3	1813	12.5	8.3	210	1.12	B2

**SR16SC**  
High Pressure

### Compatible Fittings

All fittings compatible with SR16SC are listed in Section 1 (starting on page 131).

**HOSE**



# SCP3

SCP3 is made for high-pressure hydraulic applications designed to replace SAE 100R17 where higher pressures and a more flexible hose are required.



## PERFORMANCE + SPECS

Meets or exceeds the performance requirements of:

**SAE 100R17**

Meets flame resistance

**USMSHA Designation**

### Inner Tube

NBR (Nitrile)

### Reinforcement

One braid of high-tensile steel wire (sizes 1/4", 3/8" and 1/2")

Two-wire braid of high-tensile steel wire (sizes 5/8", 3/4" and 1")

### Cover

Black CR (Polychloroprene)

### Temperature Range

-40°F to 212°F (-40°C to 100°C)

## KEY FEATURES



Handles constant pressure



SAE J1942/  
U.S. Coast Guard



4:1 Safety Factor

## BRANDING



**SCP3-04**

SAE 100R17  
1/4" (6.4 MM)

3045 PSI  
20.7 MPa

**MSHA 2G-1C-14C/12**

MADE  
IN USA



Part Number



SAP Number



Hose Size ID



Hose OD



Max. Working Pressure



Min. Bend Radius



Weight



Fitting

Part Number	SAP Number	Hose Size ID		Hose OD		Max. Working Pressure		Min. Bend Radius		Weight	Fitting
		in.	mm	in.	mm	psi	MPa	in.	mm	lbs./ft.	
SCP3-04	20318573	1/4	6.4	0.50	12.7	3045	21	2.0	51	0.11	B2
SCP3-06	20317756	3/8	9.5	0.65	16.5	3045	21	2.5	64	0.17	B2
SCP3-08	20318576	1/2	12.7	0.78	19.8	3045	21	3.5	89	0.28	B2
SCP3-10	20608301	5/8	15.9	0.95	24.1	3045	21	4.0	102	0.41	B2
SCP3-12	20470795	3/4	19.1	1.13	28.7	3045	21	5.0	127	0.55	B2
SCP3-16	20329003	1	25.4	1.44	36.6	3045	21	6.0	152	0.82	B2

**HOSE**



**SCP3**

Constant Pressure / High Pressure

### Compatible Fittings

All fittings compatible with SCP3 are listed in Section 1 (starting on page 131).

# SR3

SR3 is a low-pressure, textile reinforced hose for petroleum- or water-based hydraulic fluids or pneumatic applications. It is not to be used for air brake.



## PERFORMANCE + SPECS

Meets or exceeds the performance requirements of:

**SAE 100R3**  
**EN 854 R3**

Meets flame resistance  
**USMSHA Designation**

**Inner Tube**  
CR (Polychloroprene)

**Reinforcement**  
Two textile braids

**Cover**  
Black CR (Polychloroprene)

**Temperature Range**  
-40°F to 212°F (-40°C to 100°C)

## KEY FEATURES

**4:1** 4:1 Safety Factor

## BRANDING

**Continental** **SR3-08** **SAE 100R3 / EN 854 R3 1/2" (DN12)** **1000 PSI (6.9 MPa)** **MSHA 2G-1C-14C/30**

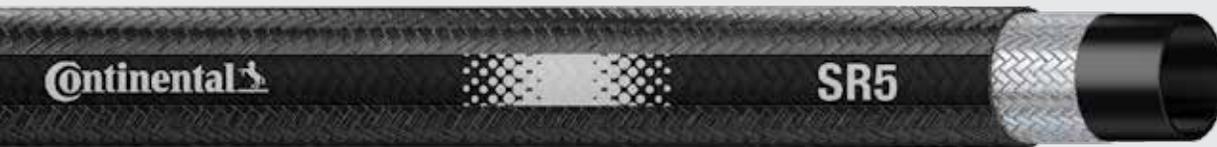
#	SAP	Hose Size ID	Hose OD	Max. Working Pressure	Min. Bend Radius	Weight	Fitting			
Part Number	SAP Number	in.	in.	mm	psi	MPa	in.	mm	lbs./ft.	
SR3-04	20240260	1/4	0.56	14.3	1250	8.6	3.0	76	0.12	UC
SR3-06	20240261	3/8	0.75	19.1	1125	7.8	4.0	102	0.17	UC
SR3-08	20240262	1/2	0.94	23.8	1000	6.9	5.0	127	0.25	UC
SR3-10	20553192	5/8	1.06	27.1	884	6.1	5.5	140	0.31	UC
SR3-12	20240275	3/4	1.25	31.8	750	5.2	6.0	152	0.43	UC
SR3-16	20240276	1	1.50	38.1	565	3.9	8.0	203	0.51	UC

**SR3**  
Low Pressure

**Compatible Fittings**  
All fittings compatible with SR3 are listed in Section 5 (starting on page 246).

# SR5

SR5 is a general-purpose, medium-pressure hose for air brakes, power steering, turbo oil lines, tilt cab cylinders, transmission coolant and filtration lines. This hose is compatible with petroleum-based hydraulic fluids, air, water, gasoline and diesel fuel, lubricating oils and coolants.



## PERFORMANCE + SPECS

Meets or exceeds the performance requirements of:

**SAE 100R5**

**DOT FMVSS 106 Type All**

**SAE J1402 Type All**

Note: Sizes 7/8", 1 1/8", 1 3/8" and 1 1/2" do not meet DOT FMVSS 106 Type All and SAE J1402 Type All because these sizes are not listed in the referenced specifications.

### Inner Tube

NBR (Nitrile)

### Reinforcement

One braid of high-tensile steel wire

### Cover

Black impregnated textile braid

### Temperature Range

-40°F to 212°F (-40°C to 100°C)

## KEY FEATURES

**4:1** 4:1 Safety Factor

**SAE J1942/  
U.S. Coast Guard**  
Requires GTEX  
protective sleeving.

## BRANDING



**SR5-08**

SAE 100R5 / DOT FMVSS 106 All  
J1402 AIR BRAKE

**2000 PSI (13.8 MPa)**

MADE  
IN USA

Part Number	SAP Number	Hose Size ID		Hose OD		Max. Working Pressure		Min. Bend Radius		Weight lbs./ft.	Fitting
		in.	in.	mm	psi	MPa	in.	mm			
SR5-04	20324155	3/16	0.52	13.2	3000	20.7	3.0	76	0.15	UC, FG	
SR5-05	20416026	1/4	0.58	14.8	3000	20.7	3.4	86	0.18	UC, FG	
SR5-06	20324042	5/16	0.68	17.1	2250	15.5	4.0	102	0.22	UC, FG	
SR5-08	20324041	13/32	0.77	19.5	2000	13.8	4.6	117	0.30	UC, FG	
SR5-10	20326081	1/2	0.92	23.4	1750	12.1	5.5	140	0.37	UC, FG	
SR5-12	20455110	5/8	1.08	27.4	1500	10.3	6.5	165	0.45	UC, FG	
SR5-16	20340597	7/8	1.24	31.4	800	5.5	7.4	187	0.47	UC, FG	
SR5-20	20436687	1 1/8	1.50	38.1	625	4.3	9.0	229	0.58	UC, FG	

**Not recommended for under-the-hood, automotive and truck fuel line applications. Only hose designed and tested to meet SAE fuel line standards should be used for these applications.** \*Assemblies made with the Continental SR5 hose and Continental Field-Grip™ or Uni-Crimp™ fittings meet SAE J1402 and DOT FMVSS 571 106 specifications. Assemblies made with Uni-Crimp™ fittings also meet SAE J517 100R5 assembly requirements. Federal law requires registration with the Department of Transportation for anyone producing air brake hose assemblies.

**HOSE**



**SR5**

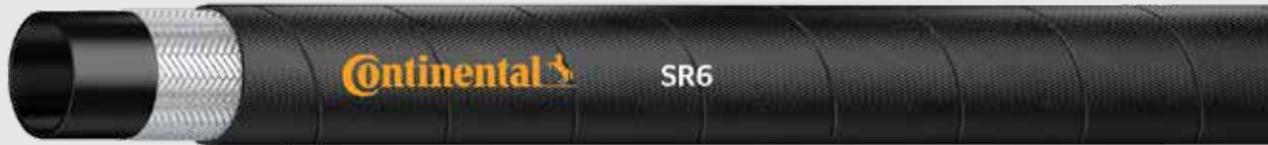
Fleet Application

### Compatible Fittings

UC fittings are listed in Section 5\* (starting on page 246).  
FG fittings are listed in Section 6\* (starting on page 283).

# SR6

SR6 is made for use during low-pressure, textile reinforced applications that include petroleum and water-based fluids for use as power steering return, lube lines and air lines. This hose is not intended for brake applications.



### PERFORMANCE + SPECS

Meets or exceeds the performance requirements of:

- SAE 100R6
- EN 854 R6

**Inner Tube**  
NBR (Nitrile)

**Reinforcement**  
One textile braid

**Cover**  
Black CR (Polychloroprene)  
Sizes 03 - 06: Wrapped Cover  
Sizes 08 - 12: Smooth Cover

**Temperature Range**  
-40°F to 212°F (-40°C to 100°C)

### KEY FEATURES

**4:1** 4:1 Safety Factor

### BRANDING

**SR6-08** SAE 100R6 / EN 854 R6 1/2" (DN12) **400 PSI (2.8 MPa)**

#	SAP	Hose Size ID	Hose OD		Max. Working Pressure		Min. Bend Radius		Weight	Fitting
Part Number	SAP Number	in.	in.	mm	psi	MPa	in.	mm	lbs./ft.	
SR6-03	20240277	3/16	0.44	11.1	500	3.4	2.0	51	0.07	UC
SR6-04	20240278	1/4	0.50	12.7	400	2.8	2.5	64	0.09	UC
SR6-05	20240279	5/16	0.56	9.1	400	2.8	3.0	76	0.09	UC
SR6-06	20240280	3/8	0.63	15.9	400	2.8	3.0	76	0.11	UC
SR6-08	20240281	1/2	0.78	19.8	400	2.8	4.0	102	0.16	UC
SR6-10	20240282	5/8	0.91	23.0	350	2.4	5.0	127	0.18	UC
SR6-12	20254775	3/4	1.05	26.6	300	2.1	6.0	152	0.25	UC

**SR6**  
Low Pressure

**Compatible Fittings**  
All fittings compatible with SR6 are listed in Section 5 (starting on page 246).

# SR12

SR12 is made for very high-pressure applications subject to surges or flexing such as oil and gas, construction equipment, mining and the high-performance industrial market.



## PERFORMANCE + SPECS

Meets or exceeds the performance requirements of:

**SAE 100R12**  
**EN 856 R12**

Meets flame resistance  
**USMSHA Designation**

**ABS Type** (Pending)

### Inner Tube

CR (Polychloroprene)

### Reinforcement

Four alternating layers of spiraled high-tensile steel wire

### Cover

Black CR (Polychloroprene)

### Temperature Range

-40°F to 250°F (-40°C to 121°C)

## KEY FEATURES



SAE J1942/  
U.S. Coast Guard



1/2 Bend (3/8" - 3/4")



4:1 Safety Factor

## BRANDING



SR12-08

SAE 100R12 / EN 856  
1/2" (DN12)

4100 PSI 28 MPa  
280 BAR

MSHA 2G-1C-14C/44

# Part Number	SAP SAP Number	Hose Size ID	Hose OD		Max. Working Pressure		Min. Bend Radius		Weight lbs./ft.	Fitting
			in.	mm	psi	MPa	in.	mm		
SR12-06	20703115	3/8	0.80	20.3	4100	28.0	2.5	65	0.40	SG
SR12-08	20703046	1/2	0.94	23.8	4100	28.0	3.5	90	0.52	SG
SR12-10	20703117	5/8	1.08	27.4	4100	28.0	4.0	100	0.70	SG
SR12-12	20703048	3/4	1.21	30.7	4100	28.0	4.7	120	0.81	SG
SR12-16	20693294	1	1.50	38.0	4100	28.0	11.8	300	1.20	SG
SR12-20	20703118	1 ¼	1.85	47.0	3050	21.0	16.5	420	1.70	SG, B2
SR12-24	20703119	1 ½	2.10	53.5	2550	17.5	19.7	500	2.05	B2
SR12-32	20693298	2	2.60	66.7	2550	17.5	25.0	635	2.82	B2

## HOSE



## SR12

Very High Pressure

### Compatible Fittings

B2 fittings are listed in Section 1 (starting on page 131).  
SG fittings are listed in Section 2 (starting on page 179).

# SR13

SR13 is made for very high-pressure applications subject to surges or flexing such as construction equipment, mining and the high-performance industrial market.



## PERFORMANCE + SPECS

Meets or exceeds the performance requirements of:

**SAE 100R13**  
**EN 856 R13**

Meets flame resistance  
**USMSHA Designation**

**ABS Type** (Pending)

**Inner Tube**  
CR (Polychloroprene)

### Reinforcement

Four alternating layers of spiraled high-tensile steel wire (sizes 1¼", 1½" and 2" have six alternating layers)

### Cover

Black CR (Polychloroprene)

### Temperature Range

-40°F to 250°F (-40°C to 121°C)

## KEY FEATURES



**SAE J1942/**  
**U.S. Coast Guard**



**4:1** 4:1 Safety Factor

## BRANDING



**SR13-12**

SAE 100R13 / EN 856  
3/4" (DN19)

**5100 PSI** 35.0 MPa  
350 BAR

**MSHA 2G-14C/44**

#	SAP	Hose Size ID	Hose OD	Max. Working Pressure	Min. Bend Radius	Weight	Fitting			
Part Number	SAP Number	in.	in.	mm	psi	MPa	in.	mm	lbs./ft.	
SR13-12	20704441	3/4	1.26	32.1	5100	35.0	9.4	240	1.09	SG
SR13-16	20704442	1	1.52	38.7	5100	35.0	11.8	300	1.42	SG
SR13-20	20704443	1 ¼	1.96	49.8	5100	35.0	16.5	420	2.69	SG
SR13-24	20704444	1 ½	2.25	57.3	5100	35.0	19.7	500	3.35	DG, S6
SR13-32	20704450	2	2.80	71.1	5100	35.0	25.2	640	4.93	DG, S6

## SR13

Very High Pressure

### Compatible Fittings

SG fittings are listed in Section 2 (starting on page 179).  
S6 and DG fittings are listed in Section 3 (page 216).

## HOSE



# SR15

SR15 is designed specifically to handle severe-high-pressure applications where pressure spikes or constant hydrostatic loads are present.



## PERFORMANCE + SPECS

Meets or exceeds the performance requirements of:

**SAE 100R15**

Meets flame resistance

**USMSHA Designation**

**ABS Type** (Pending)

**Inner Tube** CR (Polychloroprene)

### Reinforcement

Four alternating layers of spiraled high-tensile steel wire (sizes 1/2", 5/8", 3/4" and 1")

Six alternating layers of high-tensile steel wire (sizes 1/4" and 1/2")

### Cover

Black CR (Polychloroprene)

### Temperature Range

-40°F to 250°F (-40°C to 121°C)

## KEY FEATURES

**4:1** 4:1 Safety Factor

## BRANDING



**SR15-08**

SAE 100R15 / EN 856  
1/2" (DN12)

**6100 PSI** 42 MPa  
420 BAR

**MSHA 2G-1C-14C/44**

#	SAP	Hose Size ID	Hose OD		Max. Working Pressure		Min. Bend Radius		Weight	Fitting
Part Number	SAP Number	in.	in.	mm	psi	MPa	in.	mm	lbs./ft.	
SR15-08	20714798	1/2	0.95	24.2	6100	42.0	7.9	200	0.59	N/A
SR15-12	20714785	3/4	1.26	32.0	6100	42.0	10.4	265	1.09	SG
SR15-16	20714793	1	1.53	38.8	6100	42.0	13.0	330	1.46	SG
SR15-20	20714794	1 1/4	1.89	48.0	6100	42.0	17.5	445	2.41	SG
SR15-24	20714795	1 1/2	2.23	56.8	6100	42.0	20.9	530	3.02	DG

**HOSE**



**SR15**

Very High Pressure

### Compatible Fittings

SG fittings are listed in Section 2 (starting on page 179).

DG fittings are listed in Section 3 (starting on page 216).

# S4SH

S4SH is designed for very high-pressure, pulsating applications where petroleum-based hydraulic fluids are used.



## PERFORMANCE + SPECS

Meets or exceeds the performance requirements of:

**EN 856 4SH**  
**DIN 20023 4SH**

Meets flame resistance  
**USMSHA Designation**

**ABS Type** (Pending)

**Inner Tube** NBR (Nitrile)

### Reinforcement

Four alternating layers of spiraled high-tensile steel wire

### Cover

Black CR (Polychloroprene)

### Temperature Range

-40°F to 212°F (-40°C to 100°C)

## KEY FEATURES

**4:1** 4:1 Safety Factor

## BRANDING

**Continental** S4SH-12 EN 856 4SH 3/4" (DN19) **6090 PSI (42 MPa)** **MSHA 2G-1C-14C/44**

#	SAP	Hose Size ID	Hose OD	Max. Working Pressure	Min. Bend Radius	Weight	Fitting
Part Number	SAP Number	in.	in.	psi	in.	lbs./ft.	
S4SH-12	20706576	3/4	1.27	6090	11.0	1.09	SG
S4SH-16	20706577	1	1.52	5510	13.4	1.42	SG
S4SH-20	20706723	1 ¼	1.79	5080	17.9	1.71	SG
S4SH-24	20706724	1 ½	2.11	4205	22.0	2.19	SG
S4SH-32	20706725	2	2.68	3650	28.0	3.31	SG

## S4SH

Very High Pressure

### Compatible Fittings

All fittings compatible with S4SH are listed in Section 2 (starting on page 179).

## HOSE



# S4SP

S4SP is made for very high-pressure applications used for petroleum-based hydraulic fluids.



## PERFORMANCE + SPECS

Meets or exceeds the performance requirements of:

**EN 856 4SP**  
**DIN 20023 4SP**

Meets flame resistance  
**USMSHA Designation**

**ABS Type** (Pending)

**Inner Tube**  
NBR (Nitrile)

**Reinforcement**  
Four alternating layers of spiraled high-tensile steel wire

**Cover**  
Black CR (Polychloroprene)

**Temperature Range**  
-40°F to 212°F (-40°C to 100°C)

## KEY FEATURES

**4:1** 4:1 Safety Factor

## BRANDING

 **S4SP-08** EN 856 4SP 1/2" (DN12) **6020 PSI (41.5 MPa)** **MSHA 2G-1C-14C/44**

#	SAP	Hose Size ID	Hose OD		Max. Working Pressure		Min. Bend Radius		Weight	Fitting
Part Number	SAP Number	in.	in.	mm	psi	MPa	in.	mm	lbs./ft.	
S4SP-06	20714777	3/8	0.84	21.4	6455	45.0	7.1	180	0.51	SG
S4SP-08	20714778	1/2	0.97	24.6	6020	41.5	9.0	230	0.58	SG
S4SP-10	20714779	5/8	1.11	28.2	5075	35.0	9.8	250	0.73	SG
S4SP-12	20714771	3/4	1.27	32.2	5510	38.0	11.8	300	0.98	SG
S4SP-16	20714773	1	1.56	39.7	4640	32.0	13.4	340	1.30	SG

## HOSE

## S4SP

Very High Pressure

### Compatible Fittings

All fittings compatible with S4SP are listed in Section 2 (starting on page 179).

## SPECIAL APPLICATION HOSE

	Page	Construction	Inner Tube	Working Pressure (psi)	Temperature Range	Fitting Series	Approvals	Packaging
<b>SGUN</b>	74	Wire braid	Nitrile	3000	-40°F to 212°F	GG	MSHA	500' Reel
<b>SHJ</b>	75	Wire braid	Polychloroprene	10000	-40°F to 212°F	B2	MSHA	250' Reel
<b>SAFLEX® NSFX</b>	76	Wire braid	Polychloroprene	2000-2750	-40°F to 212°F	SF		500' Reel
<b>SR14A</b>	77	Wire braid	Polytetrafluoroethylene	900-3000	-40°F to 212°F	UC	SAE 100R14A, FDA 21 CFR 177	25' or 150' Coil
<b>SFS</b>	78	Wire braid	Nitrile	1000-2750	-40°F to 212°F	B2	MSHA	250' Reel
<b>PROSPECTOR™ BOP 3000</b>	79	Wire braid	Nitrile	3000	-40°F to 212°F	UC	Llyod's Certified	250' Reel, Bulk Carton
<b>PROSPECTOR™ BOP 5000</b>	80	Spiral	Polychloroprene	5000	-40°F to 212°F	UC, DG	Llyod's Certified	50', 100' or 200' Coil
<b>PROSPECTOR™ HOT OILER</b>	81	Wire braid	Oil-resistant synthetic rubber	2500	-40°F to 212°F	B2	MSHA	100' or 150' Coil

# SGUN

SGUN is designed to be used as a grease whip hose or general purpose lubrication line. It is intended for use with hand grease guns only (not for powered units).



## PERFORMANCE + SPECS

Meets flame resistance  
**USMHA Designation**

**Inner Tube**  
NBR (Nitrile)

**Reinforcement**  
One braid of high-tensile steel wire

**Cover**  
Black CR (Polychloroprene)

**Temperature Range**  
-40°F to 212°F (-40°C to 100°C)

## KEY FEATURES

 Flame-resistant

 4:1 Safety Factor

## BRANDING

 **SGUN-03 Grease Gun Hose 3/16" (4.8 MM) 3000 PSI (20.7 MPa) MSHA 2G-14C/12** MADE IN USA

										
Part Number	SAP Number	Hose Size ID	Hose OD		Max. Working Pressure		Min. Bend Radius		Weight	Fitting
		in.	in.	mm	psi	MPa	in.	mm	lbs./ft.	
SGUN-03	20240286	3/16	0.41	10.4	3000	20.7	NA	NA	0.09	GG

## HOSE



## SGUN

Special Application

### Compatible Fittings

All fittings compatible with SGUN are listed in Section 9 (starting on page 310).

# SHJ

SHJ is designed for extreme high-pressure hydraulic lines for jacking systems.



### PERFORMANCE + SPECS

Meets flame resistance  
**USMSHA Designation**

**Inner Tube**  
NBR (Nitrile)

**Reinforcement**  
Two braids of high-tensile steel wire

**Cover**  
Black CR (Polychloroprene)

**Temperature Range**  
-40°F to 212°F (-40°C to 100°C)

### KEY FEATURES

Flame-resistant

2:1 Safety Factor

### BRANDING

**SHJ-04 Jack Hose** **1/4" (6.4 MM)** **10000 PSI (68.9 MPa)** **MSHA 2G-14C/12** MADE IN USA

Part Number	SAP Number	Hose Size ID	in.	mm	psi	MPa	in.	mm	lbs./ft.	Fitting
SHJ-04	20319601	1/4	0.58	14.7	10000	68.9	4.0	102	0.24	B2
SHJ-06	20319602	3/8	0.74	18.7	10000	68.9	5.0	127	0.30	B2

Please note that B2-NPM fittings are the only thread styles approved for 10,000 psi Jack Hose Applications.

**SHJ**  
Special Application

**Compatible Fittings**  
All fittings compatible with SHJ are listed in Section 1 (starting on page 131).

**HOSE**

# Saflex® (NSFX)

Saflex® NSFX is designed for medium-pressure applications where shock hazards exist and non-conductivity is required. This hose meets the maximum leakage of 100 microamps/ft. at 75 KV for 3 minutes.



## PERFORMANCE + SPECS

Meets maximum leakage of **100 microamps/ft. at 75 KV** for 3 minutes

**Inner Tube**  
CR (Polychloroprene)

**Reinforcement**  
Two textile braids

**Cover**  
Orange NBR/PVC (Nitrile/PVC)

**Temperature Range**  
-40°F to 212°F (-40°C to 100°C)

## KEY FEATURES

 Non-conductive

 4:1 Safety Factor

## BRANDING

 **NSFX-08 Saflex® (Non-Conductive) 1/2" (12.7 MM) 2000 PSI (13.8 MPa)**

#	SAP	Hose Size ID	Hose OD	Max. Working Pressure	Min. Bend Radius	Weight	Fitting			
Part Number	SAP Number	in.	in.	psi	in.	lbs./ft.				
NSFX-04	20240283	1/4	0.56	14.2	2750	19.1	3.5	89	0.11	SF
NSFX-06	20240284	3/8	0.75	19.1	2250	15.5	4.0	102	0.19	SF
NSFX-08	20240285	1/2	0.94	23.7	2000	13.8	6.0	152	0.27	SF

## HOSE



**Saflex® (NSFX)**  
Special Application

### Compatible Fittings

All fittings compatible with NSFX are listed in Section 10 (starting on page 368).

# SR14A

SR14A is designed for medium-pressure hydraulic applications including truck, bus, industrial and aerospace. It is compatible with air, fuel, lubricants, high-temp oil and some chemical applications.



## PERFORMANCE + SPECS

Meets or exceeds the performance requirements of:

- SAE 100R14A**
- FDA 21 CFR 177**
- 1500 Specifications**

**Inner Tube**

PTFE (Polytetrafluoroethylene)

**Cover / Reinforcement**

304 stainless steel wire braid

**Temperature Range**

Continuous:  
-65°F to 450°F (-54°C to 232°C)  
Intermittent:  
-100°F to 500°F (-73°C to 260°C)

## KEY FEATURES

-  **Handles high temperature**
-  **Chemical-resistant**
-  **4:1 Safety Factor**

#	SAP	Hose Size ID	Hose OD		Max. Working Pressure		Min. Bend Radius		Weight	Fitting
Part Number	SAP Number	in.	in.	mm	psi	MPa	in.	mm	lbs./ft.	
SR14A-03	20303683	3/16	0.31	7.9	3000	20.7	2.0	51	0.06	UC
SR14A-04	20303665	1/4	0.38	9.5	3000	20.7	3.0	76	0.08	UC
SR14A-05	20303667	5/16	0.45	11.3	2500	17.2	4.0	102	0.09	UC
SR14A-06	20303669	3/8	0.50	12.8	2250	15.5	4.5	114	0.11	UC
SR14A-08	20303691	1/2	0.65	16.5	1500	10.3	6.5	165	0.15	UC
SR14A-10	20303693	5/8	0.78	19.8	1200	8.3	7.7	196	0.19	UC
SR14A-12	20303695	3/4	0.89	22.5	1100	7.6	8.2	208	0.21	UC
SR14A-16	20303697	1	1.14	28.8	900	6.2	10.0	254	0.32	UC

## SR14A

Fleet and Special Application

### Compatible Fittings

This hose utilizes UCF9 ferrules with Continental UniCrimp™ stems. For compatible fittings, see Section 5 (starting on page 242).

## HOSE



# SFS

SFS is made for medium-pressure hydraulic applications including fire suppression actuation equipment where the red cover allows for easy identification.



## PERFORMANCE + SPECS

Meets flame resistance

**USMSHA Designation**

### Inner Tube

NBR (Nitrile)

### Reinforcement

One braid of high-tensile steel wire

### Cover

Red NBR/PVC (Nitrile/PVC)

### Temperature Range

-40°F to 212°F (-40°C to 100°C)

## KEY FEATURES



Flame-resistant



4:1 Safety Factor

## BRANDING



**SFS-08 Fire Suppression Hose**

**1/2" (DN12)**

**2000 PSI  
13.8 MPa**

**MSHA 2G-1C-14C/31**

**MADE  
IN USA**

#	SAP	Hose Size ID	Hose OD		Max. Working Pressure		Min. Bend Radius		Weight	Fitting
Part Number	SAP Number	in.	in.	mm	psi	MPa	in.	mm	lbs./ft.	
SFS-04	20276330	1/4	0.53	13.6	2750	19.1	4	102	0.15	B2
SFS-06	20276331	3/8	0.69	17.5	2250	15.5	5	127	0.22	B2
SFS-08	20276332	1/2	0.81	20.7	2000	13.8	7	178	0.28	B2
SFS-12	20276333	3/4	1.10	27.8	1250	8.6	9.5	241	0.41	B2
SFS-16	20276334	1	1.41	35.8	1000	6.9	12	305	0.62	B2

## HOSE



## SFS

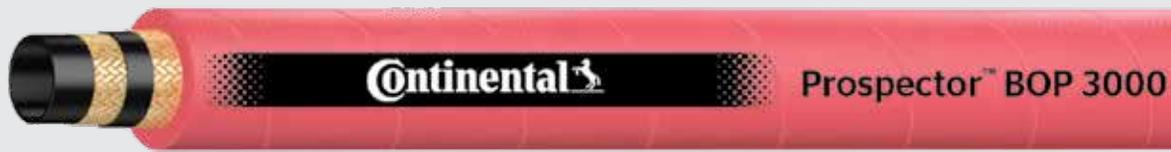
Medium Pressure

### Compatible Fittings

All fittings compatible with SFS are listed in Section 1 (starting on page 131).

# Prospector™ BOP 3000

This hose is a hydraulic control connection that is used in the well control system.



## PERFORMANCE + SPECS

**Inner Tube**  
NBR (Nitrile)

**Reinforcement**  
Two-wire braided steel

**Cover**  
Pink CR (Polychloroprene), wrapped finish

**Temperature Range**  
-40°F to 212°F (-40°C to 100°C)

**Verification**  
Independently tested per Lloyd's Register Fire Tests for Flexible Hose on Offshore Installations (OD/1000/499-June 29th, 1992) and EUB (Directive 036)

## KEY FEATURES

-  Lloyd's Certified
-  4:1 Safety Factor

## BRANDING

 **BOP 3000** Meets API 16D Meets Lloyd's 1000/499 Fire Test **1/2" (12.7 MM)** **3000 PSI** 20.7 MPa 207 BAR **MADE IN USA**

										
Part Number	SAP Number	Hose Size ID	Hose OD		Max. Working Pressure		Min. Bend Radius		Weight	Fitting
		in.	in.	mm	psi	MPa	in.	mm	lbs./ft.	
BOP-06	20613999	3/8	1.11	28.2	3000	20.7	6.0	152	0.75	UC
BOP-08	20614010	1/2	1.19	30.2	3000	20.7	8.0	203	0.81	UC
BOP-12	20614011	3/4	1.49	37.8	3000	20.7	11.0	279	1.22	UC
BOP-16	20614012	1	1.84	46.7	3000	20.7	15.0	381	1.74	UC

**Prospector™ BOP 3000**  
Special Application

**Compatible Fittings**  
Special fitting assembly procedure required.  
Contact Continental for more information.

**HOSE**



# Prospector™ BOP 5000

This hose is a hydraulic control connection that is used in the well control system.



## PERFORMANCE + SPECS

### Inner Tube

CR (Polychloroprene)

### Reinforcement

Four alternating layers of spiraled high-tensile steel wire (sizes 3/8", 1/2", 3/4", 1" and 1¼")

Six alternating layers of spiraled high-tensile steel wire (sizes 1½" and 2")

### Cover

Pink CR (Polychloroprene), wrapped finish

### Temperature Range

-40°F to 212°F (-40°C to 100°C)

### Verification

Tested at Southwest Research Institute and certified by Lloyd's Register to API Specification 16D (Spec 16D, Section 10)

## KEY FEATURES



Lloyd's Certified



4:1 Safety Factor

## BRANDING



**BOP 5000**

Meets API 16D  
Meets Lloyd's 1000/499 Fire Test

**1/2" (12.7 MM)**

**5000 PSI**

34.5 MPa  
345 BAR

MADE  
IN USA

#	SAP	Hose Size ID	Hose OD	Max. Working Pressure	Min. Bend Radius	Weight	Fitting			
Part Number	SAP Number	in.	in.	mm	psi	MPa	in.	mm	lbs./ft.	
BOP5000-06	20715121	3/8	1.14	29.0	5000	34.5	7.1	180	0.80	UC
BOP5000-08	20715122	1/2	1.24	31.6	5000	34.5	9.0	230	0.90	UC
BOP5000-12	20715123	3/4	1.58	40.1	5000	34.5	11.8	300	1.60	UC
BOP5000-16	20715124	1	1.85	46.9	5000	34.5	13.4	340	2.00	DG
BOP5000-20	20715125	1 ¼	2.10	53.4	5000	34.5	18.1	460	2.40	DG
BOP5000-24	20715126	1 ½	2.59	65.9	5000	34.5	19.7	500	4.10	DG
BOP5000-32	20715127	2	3.14	79.7	5000	34.5	24.8	630	5.50	DG

**HOSE**



**Prospector™ BOP 5000**

Very High Pressure

### Compatible Fittings

Special fitting assembly procedure required.  
Contact Continental for more information.

# Prospector™ Hot Oiler

This hose is designed for static-pressure, Hot Oiler applications. It is made specifically to handle the transfer of hot oil at 275°F continuous and 300°F intermittent to clear the paraffin around the casing to help start the flow of oil to the surface.



## PERFORMANCE + SPECS

Meets flame resistance  
**USMSHA Designation**

### Inner Tube

Oil-resistant synthetic rubber

### Reinforcement

Two braids of high-tensile steel wire

### Cover

Black oil-resistant synthetic rubber

### Temperature Range

-40°F to 275°F (-40°C to 135°C)

## KEY FEATURES

~~LIFE™~~ Extended Life™  
Cover

Handles high temperature

4:1 Safety Factor

## BRANDING

Prospector™ X-Life HOT OILER 1 ½" 2500 PSI Flame Resistant MSHA 2G-1C-14C/45

Part Number	SAP Number	Hose Size ID	in.	mm	psi	MPa	in.	mm	lbs./ft.	Fitting
Hot Oiler	20830012	1 ½	2.16	54.8	2500	17.2	20.0	508	1.64	B2

**Prospector™ Hot Oiler**  
Special Application

### Compatible Fittings

All fittings compatible with Prospector™ Hot Oiler are listed in Section 9 (starting on page 310).

**HOSE**





## MILITARY HOSE

	Page	Construction	Inner Tube	Working Pressure (psi)	Temperature Range	Fitting Series	Approvals	Packaging
<b>MIL-DTL-13444H-I</b>	83	Wire braid	Nitrile	125-425	-65°F to 250°F	UC	MIL-DTL-13444H-I	250' Reel, Bulk Carton
<b>MIL-DTL-13444H-III</b>	84	Wire braid	Nitrile	300-1500	-55°F to 300°F	UC	MIL-DTL-13444H-III	250' Reel, Bulk Carton
<b>MIL-DTL-13531</b>	85	Wire braid	Nitrile	2000-5000	-65°F to 200°F	UC	MIL-DTL-13531	Bulk Carton
<b>MIL-DTL-3992</b>	86	Wire braid	Nitrile	200	-60°F to 200°F	N/A	MIL-DTL-39921	Bulk Carton
<b>MIL-DTL-8788</b>	87	Wire braid	Nitrile	3000	-65°F to 160°F	N/A	MIL-DTL-8788	Bulk Carton

**HOSE**

**Continental**



**MILITARY HOSE**

# MIL-DTL-13444H-I

This hose is designed for fuel and oil lines in military vehicles and other military applications.



## PERFORMANCE + SPECS

Meets or exceeds the performance requirements of:

**MIL-DTL-13444H Type I**

**Inner Tube** NBR (Nitrile)

**Reinforcement**  
Single-fabric braid

**Cover**  
Black CR (Polychloroprene)

### Temperature Range

-65°F to 250°F (-53.89°C to 121.1°C)

### Qualification

QPL-13444 Type I approved for bulk hose.

QPL-13444 Type I approved for permanent UC fittings with UCF2 ferrules on factory assemblies. Distributor-made assemblies must seek DSCC approval.

## KEY FEATURES

 **Military Applications**  
Type I

 **4:1** 4:1 Safety Factor

## BRANDING

**MIL-H-13444 I    1/2"    2Q18 OZ 63906**

										
Part Number	SAP Number	Hose Size ID	Hose OD		Max. Working Pressure		Min. Bend Radius		Weight	Fitting
		in.	in.	mm	psi	MPa	in.	mm	lbs./ft.	
MIL-H-13444-I-3	20472785	3/16	0.44	11.1	425	2.9	2.00	50.80	0.07	UC
MIL-H-13444-I-4	20468052	1/4	0.50	12.7	300	2.0	2.25	57.15	0.09	UC
MIL-H-13444-I-5	20470472	5/16	0.56	14.3	275	1.9	2.75	69.85	0.10	UC
MIL-H-13444-I-6	20472786	3/8	0.63	15.9	250	1.7	3.00	76.20	0.11	UC
MIL-H-13444-I-8	20485914	1/2	0.78	19.8	200	1.4	3.75	95.25	0.17	UC
MIL-H-13444-I-10	20490906	5/8	0.97	25.6	175	1.2	4.75	120.7	0.22	UC
MIL-H-13444-I-12	20493008	3/4	1.09	27.8	125	0.9	5.50	139.7	0.26	UC

**MIL-DTL-13444H-I**  
Military Applications

### Compatible Fittings

This hose utilizes UCF2 ferrules with UniCrimp™ stems.  
For compatible fittings, see Section 5 (starting on page 242).

**HOSE**



# MIL-DTL-13444H-III

This hose is designed for medium-pressure hydraulic oil and fuel lines. It is intended for use in military vehicles and other support equipment.



## PERFORMANCE + SPECS

Meets or exceeds the performance requirements of:

**MIL-DTL-13444H Type III**

**Inner Tube** NBR (Nitrile)

### Reinforcement

Textile braid and one-wire steel braid

### Cover

Black impregnated textile braid

### Temperature Range

-55°F to 300°F (-48.33°C to 148.89°C)

### Qualification

QPL-13444 Type III approved for bulk hose.

QPL-13444 Type III approved for permanent UC fittings with UCF6 ferrules on factory assemblies. Distributor-made assemblies must seek DSCC approval.

## KEY FEATURES

 Military Applications Type III

 4:1 Safety Factor

## BRANDING

MIL-H-13444 III 1/2" 2Q18 63906

										
Part Number	SAP Number	Hose Size ID	in.	mm	psi	MPa	in.	mm	lbs./ft.	Fitting
MIL-H-13444-III-4	20474735	3/16	0.49	12.5	1500	10.3	0.75	19.15	0.29	UC
MIL-H-13444-III-5	20479489	1/4	0.55	14.1	1500	10.3	1.00	25.40	0.28	UC
MIL-H-13444-III-6	20476712	5/16	0.62	15.7	1000	6.8	1.25	31.75	0.39	UC
MIL-H-13444-III-8	20477294	13/32	0.74	18.7	1000	6.8	1.75	44.45	0.47	UC
MIL-H-13444-III-10	20488137	1/2	0.83	21.1	875	6.0	2.25	31.75	0.47	UC
MIL-H-13444-III-12	20494896	5/8	0.96	24.3	750	5.1	2.75	69.85	0.32	UC
MIL-H-13444-III-16	20524468	7/8	1.21	30.6	375	2.6	3.50	88.90	0.44	UC
MIL-H-13444-III-20	20597709	1 1/4	1.49	37.8	300	2.0	4.50	114.3	0.50	UC

## HOSE

**Continental**

## MIL-DTL-13444H-III

Military Applications

### Compatible Fittings

This hose utilizes UCF6 ferrules with UniCrimp™ stems. For compatible fittings, see Section 5 (starting on page 242).

# MIL-DTL-13531

This hose is designed for medium- and high-pressure hydraulic systems.



## PERFORMANCE + SPECS

Meets or exceeds the performance requirements of:

**MIL-DTL-13531 Type II Class A**

### Inner Tube

NBR (Nitrile)

### Reinforcement

Two braids of high-tensile steel wire

### Cover

Black CR (Polychloroprene)

### Temperature Range

-65°F to 200°F (-53.89°C to 93.33°C)

### Qualification

QPL-13531 approved for bulk hose.

QPL-13531 approved for permanent UC fittings with UCF2 ferrules on factory assemblies. Distributor-made assemblies must seek DSCC approval.

## KEY FEATURES



**Military Applications**  
Type II Class A



**4:1** 4:1 Safety Factor

## BRANDING

**M13531-B8A 2Q18 63906**

#	SAP	Hose Size ID	Hose OD	Max. Working Pressure	Min. Bend Radius	Weight	Fitting			
Part Number	SAP Number	in.	in.	mm	psi	MPa	in.	mm	lbs./ft.	UC
M13531-B3A	20441525	3/16	0.63	15.9	5000	34.47	4.0	101.6	0.26	UC
M13531-B4A	20441526	1/4	0.69	17.5	5000	34.47	4.0	101.6	0.31	UC
M13531-B5A	20441527	5/16	0.75	19.1	4250	29.30	4.5	114.3	0.33	UC
M13531-B6A	20441528	3/8	0.84	21.4	4000	27.57	5.0	127.0	0.41	UC
M13531-B8A	20441529	1/2	0.97	24.6	3500	24.13	7.0	117.8	0.50	UC
M13531-B10A	20442170	5/8	1.09	27.8	2750	18.96	8.5	215.9	0.59	UC
M13531-B12A	20442171	3/4	1.25	31.8	2250	15.51	9.5	241.3	0.72	UC
M13531-B14A	20442172	7/8	1.38	34.9	2000	13.78	10.5	266.7	0.81	UC
M13531-B16A	20442173	1	1.56	39.7	2000	13.78	11.0	279.4	1.01	UC

## MIL-DTL-13531

Military Applications

### Compatible Fittings

This hose utilizes UCF2 ferrules with UniCrimp™ stems. For compatible fittings, see Section 5 (starting on page 242).

## HOSE



# MIL-DTL-3992

MIL-DTL-3992 is a low-pressure hose for flexible connections in air brake systems on automotive vehicles.



## PERFORMANCE + SPECS

Meets or exceeds the performance requirements of:

**MIL-DTL-39921**

### Inner Tube

NBR (Nitrile)

### Reinforcement

Two textile braids

### Cover

Black CR (Polychloroprene)

### Temperature Range

-60°F to 200°F (-51°C to 93°C)

## KEY FEATURES



**Military Applications**  
Type I Class I



**4:1** 4:1 Safety Factor

## BRANDING

39921-B0112 2Q18 OZ 63906

#	SAP	Hose Size ID	Hose OD	Max. Working Pressure	Min. Bend Radius	Weight	Fitting			
Part Number	SAP Number	in.	in.	psi	MPa	in.	mm	lbs./ft.		
M3992-B0112	20024160	3/8	0.75	19.1	200	1.38	3.5	88.9	0.18	N/A
M3992-B0116	20568988	1/2	0.88	22.2	200	1.38	4.0	101.6	0.21	N/A

HOSE



**MIL-DTL-3992**

Military Applications

# MIL-DTL-8788

MIL-DTL-8788 is designed for high-pressure hydraulic systems requiring interoperability and compatibility with associated components and equipment.



## PERFORMANCE + SPECS

Meets or exceeds the performance requirements of:

**MIL-DTL-8788**

### Inner Tube

NBR (Nitrile)

### Reinforcement

Two braids of high-tensile steel wire

### Cover

Black CR (Polychloroprene)

### Temperature Range

-65°F to 160°F (-53.89°C to 71°C)

## KEY FEATURES



Military Applications



4:1 Safety Factor

## BRANDING

**M8788-8    2Q18 63906**

#	SAP	Hose Size ID	Hose OD	Max. Working Pressure	Min. Bend Radius	Weight	Fitting			
Part Number	SAP Number	in.	in.	mm	psi	MPa	in.	mm	lbs./ft.	
M8788-4	20024593	0.22	0.63	15.88	3000	20.68	3.00	76.20	0.27	N/A
M8788-5	20024596	0.28	0.70	17.86	3000	20.68	3.38	85.85	0.32	N/A
M8788-6	20024600	0.34	0.77	19.46	3000	20.68	5.00	127.00	0.37	N/A
M8788-8	20024604	0.44	0.86	21.82	3000	20.68	5.75	146.05	0.44	N/A
M8788-10	20024613	0.56	1.03	26.19	3000	20.68	6.50	165.10	0.57	N/A
M8788-12	20024616	0.69	1.22	30.96	3000	20.68	7.75	196.85	0.76	N/A
M8788-16	20024619	0.88	1.50	38.10	3000	20.68	9.63	244.60	1.32	N/A

## MIL-DTL-8788

Military Applications

## HOSE





## PUSH-ON HOSE

	Page	Construction	Inner Tube	Working Pressure (psi)	Temperature Range	Fitting Series	Approvals	Packaging
<b>INSTA-GRIP™ 300</b>	89	Textile braid	Nitrile/PVC	300	-40°F to 190°F	PB	MSHA	500' Reel, Various Cut Lengths
<b>INSTA-GRIP™ TC</b>	90	Textile braid	Nitrile/PVC	300	-40°F to 200°F	PB		500' Reel, 50' Cut Lengths
<b>INSTA-GRIP™ HT 300</b>	91	Textile braid	Chlorinated Polyethylene	300	-40°F to 300°F	PB		500' Reel
<b>FXG</b>	92	Textile braid	Nitrile/PVC	300-400	-40°F to 200°F	PB	MSHA	500' Reel, Various Cut Lengths

**HOSE**

**Continental** 

**PUSH-ON HOSE**

# Insta-Grip™ 300

Insta-Grip™ 300 is made for use with push-on fittings at maximum working pressures of 300 psi. It is for low-pressure hydraulic and pneumatic systems such as shop air systems, general industrial, maintenance and automotive applications. It is non-conductive, featuring a minimum electrical resistance greater than (1) megohm per inch of hose length at 1000V DC.



## PERFORMANCE + SPECS

Meets flame resistance  
**USMSHA Designation**

**Inner Tube**  
NBR/PVC (Nitrile/PVC)

**Reinforcement**  
One textile braid

**Cover**  
Black, Blue, Red, Green, Gray  
(for other colors contact marketing):  
NBR/PVC (Nitrile/PVC), weather-,  
abrasion- and oil-resistant (RMA  
Class B Medium/High Oil Resistance)

**Temperature Range**  
-40°F to 190°F (-40°C to 88°C)

## KEY FEATURES

-  Non-conductive
-  4:1 Safety Factor

## BRANDING

 **INSTA-GRIP™** **300 PSI** **1/2"**  **MSHA 2G-1C-14C/33** **MADE IN USA**

											
<b>Descriptive Number</b>	<b>Product Number</b>	<b>SAP Number</b>	<b>Hose Size ID</b>	<b>Hose OD</b>	<b>Max. Working Pressure</b>	<b>Min. Bend Radius</b>	<b>Weight</b>	<b>Fitting</b>			
(***) Insert Color	(***) Insert Color	(Black)	in.	in.	mm	psi	MPa	in.	mm	lbs./ft.	
IG 300 1/4***	IG***-04	20022636	1/4	0.54	13.7	300	2.1	2.5	64	0.09	PB
IG 300 5/16***	IG***-05	20022641	5/16	0.62	15.7	300	2.1	3.0	76	0.12	PB
IG 300 3/8***	IG***-06	20022644	3/8	0.69	17.5	300	2.1	3.0	76	0.14	PB
IG 300 1/2***	IG***-08	20022648	1/2	0.81	20.6	300	2.1	5.0	127	0.16	PB
IG 300 5/8***	IG***-10	20022651	5/8	0.93	23.6	300	2.1	6.0	152	0.20	PB
IG 300 3/4***	IG***-12	20022653	3/4	1.07	27.2	300	2.1	7.0	178	0.25	PB
IG 300 1***	IG***-16	20136613 (Red)	1	1.34	34.0	300	2.1	8.0	203	0.34	PB

\*\*\* Colors: Black=BLK, Blue=BLU, Red=RED, Green=GRN, Gray=GRY  
Note: Insta-Grip™ 300 black cover hose meets USMSHA 2G-1C-14C/33. All other colors meet USMSHA 2G-1C-14C/32.

**Insta-Grip™ 300**  
Low Pressure Push-On

**Compatible Fittings**  
All fittings compatible with Insta-Grip™ 300 are listed in Section 9 (starting on page 310).

**HOSE**  


# Insta-Grip™ TC

Insta-Grip™ TC is for low-pressure hydraulic and pneumatic systems such as shop air systems, general industrial, maintenance and automotive applications.



## PERFORMANCE + SPECS

### Inner Tube

NBR/PVC (Nitrile/PVC)

### Reinforcement

One textile braid

### Cover

Black textile braid,  
mildew- and oil-resistant

### Temperature Range

-40°F to 200°F (-40°C to 93°C)

## KEY FEATURES

**4:1** 4:1 Safety Factor

## BRANDING



INSTA-GRIP™ TC

1/2"

300 PSI

MADE  
IN USA

#	SAP	Hose Size ID	Hose OD		Max. Working Pressure		Min. Bend Radius		Weight	Fitting
Part Number	SAP Number	in.	in.	mm	psi	MPa	in.	mm	lbs./ft.	
IGTC-04	20022593	1/4	0.50	12.7	300	2.1	2.5	64	0.08	PB
IGTC-05	20022595	5/16	0.56	14.2	300	2.1	3.0	76	0.09	PB
IGTC-06	20022597	3/8	0.64	16.3	300	2.1	3.0	76	0.11	PB
IGTC-08	20022600	1/2	0.75	19.1	300	2.1	5.0	127	0.13	PB
IGTC-10	20022602	5/8	0.91	23.1	300	2.1	6.0	152	0.19	PB
IGTC-12	20022604	3/4	1.03	26.2	300	2.1	7.0	178	0.21	PB

HOSE



Insta-Grip™ TC

Low Pressure

### Compatible Fittings

All fittings compatible with Insta-Grip™ TC are listed in Section 9 (starting on page 310).

# Insta-Grip™ HT 300

Insta-Grip™ HT 300 is for lubricating as well as fuel oils, air and water. This hose is not recommended for applications involving impulse movements or air brake applications. IGHT can be used with push-on fittings at working pressures up to 300 psi.



## PERFORMANCE + SPECS

### Inner Tube

CPE (Chlorinated Polyethylene)

### Reinforcement

One synthetic textile braid

### Cover

Blue CPE (Chlorinated Polyethylene)  
(ARPM Class B Oil Resistance)

### Temperature Range

Petroleum-based hydraulic fluids:  
-40°F to 300°F (-40°C to 150°C)  
Water and air:  
-40°F to 190°F (-40°C to 88°C)

## KEY FEATURES



Handles high temperature



4:1 Safety Factor

## BRANDING

**INSTA-GRIP™ HT 1/2" 300 PSI** MADE IN USA

#	SAP	Hose Size ID	Hose OD		Max. Working Pressure		Min. Bend Radius		Weight	Fitting
Part Number	SAP Number	in.	in.	mm	psi	MPa	in.	mm	lbs./ft.	
IGHT-04	20544196	1/4	0.51	12.8	300	2.1	2.5	64	0.09	PB
IGHT-06	20544197	3/8	0.67	17.0	300	2.1	3.0	76	0.14	PB
IGHT-08	20544198	1/2	0.76	19.3	300	2.1	5.0	127	0.16	PB
IGHT-10	20544199	5/8	0.93	23.6	300	2.1	6.0	152	0.20	PB
IGHT-12	20571923	3/4	1.04	26.5	300	2.1	7.0	178	0.25	PB

## Insta-Grip™ HT 300

Low Pressure Push-On

### Compatible Fittings

All fittings compatible with Insta-Grip™ HT 300 are listed in Section 9 (starting on page 310).

**HOSE**



# FXG

FLEXAGrip™ is for use with push-on fittings at maximum working pressures of 400 psi. It is primarily for low-pressure hydraulic and pneumatic systems such as robotics, shop air systems, general industrial, maintenance and automotive applications. It is non-conductive, featuring a minimum electrical resistance greater than (1) megohm per inch of hose length at 1000 V DC.



## PERFORMANCE + SPECS

Meets flame resistance  
**USMSHA Designation**

**Inner Tube**  
NBR/PVC (Nitrile/PVC)

**Reinforcement**  
One textile braid

**Cover**  
Black, Blue, Red, Green, Gray, White, Brown and Yellow (for other colors contact marketing):  
Carbryn™ weather-, abrasion- and oil-resistant (ARPM Class A High Oil Resistance)

**Temperature Range**  
-40°F to 200°F (-40°C to 93°C)

## KEY FEATURES

-  Non-conductive
-  4:1 Safety Factor

## BRANDING

 **FXG (Non-Conductive)** **1/2" (12.7 MM)** **400 PSI 28 BAR** **Flame Resistant** **MSHA 2G-1C-14C/27** **MADE IN USA**

#	#	SAP						
Descriptive Number	Product Number	SAP Number	Hose Size ID	Hose OD	Max. Working Pressure	Min. Bend Radius	Weight	Fitting
(***) Insert Color	(***) Insert Color	(Black)	in.	in. mm	psi MPa	in. mm	lbs./ft.	
FLEXAGrip™ 3/16***	FXG***-03	20022699	3/16	0.36 9.10	400 2.8	2.5 64	0.04	PB
FLEXAGrip™ 1/4***	FXG***-04	20022700	1/4	0.51 13.0	400 2.8	2.5 64	0.08	PB
FLEXAGrip™ 3/8***	FXG***-06	20022703	3/8	0.67 17.0	400 2.8	3.0 76	0.13	PB
FLEXAGrip™ 1/2***	FXG***-08	20022706	1/2	0.76 19.3	400 2.8	5.0 127	0.14	PB
FLEXAGrip™ 5/8***	FXG***-10	20022711	5/8	0.93 23.6	400 2.8	6.0 152	0.19	PB
FLEXAGrip™ 3/4***	FXG***-12	20022714	3/4	1.06 26.9	400 2.8	7.0 178	0.24	PB
FLEXAGrip™ 1***	FXG***-16	20141684	1	1.34 34.0	300 2.1	8.0 203	0.34	PB

\*\*\* Colors: Black=BLK, Blue=BLU, Red=RED, Green=GRN, Gray=GRY, White=WHT, Brown=BRN, Yellow=YEL

## HOSE



## FXG

Low Pressure Push-On

### Compatible Fittings

All fittings compatible with FXG are listed in Section 9 (starting on page 310).

## THERMOPLASTIC HOSE

	Page	Construction	Inner Tube	Working Pressure (psi)	Temperature Range	Fitting Series	Approvals	Packaging
<b>SR7</b>	94	Synthetic fiber	Nylon	1000-2500	-40°F to 212°F	T7	SAE 100R7, EN 857 R7	50' and 250' Box
<b>SR8</b>	95	Synthetic fiber	Polyester	3500-5000	-40°F to 212°F	T8	SAE 100R8, EN 855 R8	50' and 250' Box
<b>NR7</b>	96	Synthetic fiber	Polyester	1000-3000	-65°F to 212°F	T7	SAE 100R7	50' and 250' Box
<b>NR8</b>	97	Synthetic fiber	Nylon	3500-5000	-40°F to 212°F	T8	SAE 100R8	250' Box
<b>TR7</b>	98	Synthetic fiber	Nylon	3500-5000	-40°F to 212°F	T7	SAE 100R7	250' Box
<b>TR8</b>	99	Synthetic fiber	Nylon	3500-4000	-40°F to 212°F	T8	SAE 100R8	250' Box
<b>BR7</b>	100	Synthetic fiber	Polyester	2250-2750	-65°F to 212°F	T7	SAE 100R7	50' and 250' Box
<b>SR18</b>	101	Synthetic fiber	Polyester	3000	-65°F to 201°F	T7	SAE 100R18	250' Box

THERMOPLASTIC HOSE

HOSE

Continental 

# SR7

SR7 is a medium-pressure, thermoplastic hose with a perforated cover. It is compatible with petroleum-, water- and synthetic-based fluids for mobile equipment, lube lines, blowout preventers, hydraulic lifts and construction machinery.



## PERFORMANCE + SPECS

Meets or exceeds the performance requirements of:

**SAE 100R7**  
**EN 857 R7**

**Exceeds SAE minimum bend radius**

**Inner Tube**  
Nylon

**Reinforcement**  
Synthetic fiber

**Cover**  
Black urethane, pin-pricked

**Temperature Range**  
-40°F to 212°F (-40°C to 100°C)  
Note: Maximum temperature for water-based and fire-resistant fluids is 150°F (66°C)

## KEY FEATURES



Made for  
tight bends



4:1 Safety Factor

## BRANDING



SR7-08

SAE 100R7 / EN 855 R7  
1/2" (DN12)

2000 PSI (13.8 MPa)

#	SAP	Hose Size ID	Hose OD	Max. Working Pressure	Min. Bend Radius	Weight	Fitting			
Part Number	SAP Number	in.	in.	mm	psi	MPa	in.	mm	lbs./ft.	
SR7-02	20243607	1/8	0.34	8.5	2500	17.2	0.5	13	0.03	T7
SR7-03	20243608	3/16	0.43	10.8	3000	20.7	0.8	20	0.05	T7
SR7-04	20243609	1/4	0.51	13.0	3000	20.7	1.3	33	0.06	T7
SR7-05	20243650	5/16	0.59	15.1	2500	17.2	1.8	46	0.07	T7
SR7-06	20243651	3/8	0.67	17.0	2250	15.5	2.0	51	0.10	T7
SR7-08	20243652	1/2	0.82	20.7	2000	13.8	3.0	76	0.14	T7
SR7-12	20243653	3/4	1.07	27.1	1250	8.6	5.0	127	0.19	T7
SR7-16	20243654	1	1.34	34.0	1000	6.9	8.0	203	0.26	T7

HOSE



SR7

Thermoplastic

### Compatible Fittings

All fittings compatible with SR7 are listed in Section 7 (starting on page 286).

# SR8

SR8 is a high-pressure thermoplastic hose with a perforated cover for petroleum-, water- and synthetic-based fluids for mobile equipment, lube lines, blowout preventers, hydraulic lifts and construction machinery.



## PERFORMANCE + SPECS

Meets or exceeds the performance requirements of:

**SAE 100R8**  
**EN 855 R8**

**Exceeds SAE minimum bend radius**

**Inner Tube**  
Polyester

**Reinforcement**  
Synthetic fiber

**Cover**  
Black urethane, pin-pricked

**Temperature Range**  
-40°F to 212°F (-40°C to 100°C)  
Note: Maximum temperature for water-based and fire-resistant fluids is 150°F (66°C)

## KEY FEATURES

**4:1** 4:1 Safety Factor

## BRANDING



**SR8-08**

SAE 100R8 / EN 855 R8  
1/2" (DN12)

**3500 PSI (24.1 MPa)**

#	SAP	Hose Size ID	Hose OD		Max. Working Pressure		Min. Bend Radius		Weight	Fitting
Part Number	SAP Number	in.	in.	mm	psi	MPa	in.	mm	lbs./ft.	
SR8-03	20243672	3/16	0.52	13.1	5000	34.5	1.5	38	0.08	T8
SR8-04	20243673	1/4	0.63	15.9	5000	34.5	2.0	51	0.12	T8
SR8-06	20243674	3/8	0.77	19.4	4000	27.6	2.5	64	0.15	T8
SR8-08	20243675	1/2	0.89	22.7	3500	24.1	4.0	102	0.19	T8

## SR8

Thermoplastic

### Compatible Fittings

All fittings compatible with SR8 are listed in Section 7 (starting on page 286).

## HOSE



# NR7

NR7 is a medium-pressure thermoplastic hose with a non-perforated cover. This hose is compatible with petroleum-, water- and synthetic-based fluids for mobile equipment, lube lines, blowout preventers, hydraulic lifts and construction machinery requiring SAE 100R7 non-conductivity standards.



## PERFORMANCE + SPECS

Meets or exceeds the performance requirements of:

**SAE 100R7**

**Inner Tube**

Polyester

**Reinforcement**

Synthetic fiber

**Cover**

Orange urethane

**Temperature Range**

-65°F to 212°F (-54°C to 100°C)

Sizes 1/8", 3/4" and 1"

-40°F to 200°F (-40°C to 93°C)

Note: Maximum temperature for water-based and fire-resistant fluids is 140°F (60°C)

## KEY FEATURES

 Non-conductive

 4:1 Safety Factor

## BRANDING



**NR7-08**

SAE 100R7 (Non-Conductive)  
1/2" (12.7 MM)

**2250 PSI (15.5 MPa)**

#	SAP	Hose Size ID	Hose OD		Max. Working Pressure		Min. Bend Radius		Weight	Fitting
Part Number	SAP Number	in.	in.	mm	psi	MPa	in.	mm	lbs./ft.	
NR7-03	20243656	3/16	0.43	10.8	3000	20.7	0.8	20	0.05	T7
NR7-04	20243657	1/4	0.49	12.3	2750	19.1	1.3	33	0.06	T7
NR7-05	20243658	5/16	0.58	14.7	2500	17.2	1.8	46	0.08	T7
NR7-06	20243659	3/8	0.64	16.1	2250	15.5	2.0	51	0.10	T7
NR7-08	20243660	1/2	0.82	20.7	2250	15.5	3.0	76	0.14	T7
NR7-12	20243661	3/4	1.07	27.1	1250	8.6	5.0	127	0.19	T7
NR7-16	20243662	1	1.34	34.0	1000	6.9	8.0	203	0.26	T7

## HOSE



## NR7

Thermoplastic

### Compatible Fittings

All fittings compatible with NR7 are listed in Section 7 (starting on page 286).

# NR8

NR8 is a high-pressure, thermoplastic hose with a non-perforated cover. It is compatible with petroleum-, water- and synthetic-based fluids for mobile equipment, lube lines, blowout preventers, hydraulic lifts and construction machinery requiring SAE 100R8 non-conductivity standards.



## PERFORMANCE + SPECS

Meets or exceeds the performance requirements of:

**SAE 100R8**

### Inner Tube

Nylon

### Reinforcement

Synthetic fiber

### Cover

Orange urethane

### Temperature Range

-40°F to 212°F (-40°C to 100°C)

Note: Maximum temperature for water-based and fire-resistant fluids is 150°F (66°C)

## KEY FEATURES



Non-conductive



4:1 Safety Factor

## BRANDING



**NR8-08**

SAE 100R8 (Non-Conductive)  
1/2" (DN12)

**3500 PSI (24.1 MPa)**



Part Number



SAP Number



Hose Size ID



Hose OD



Max. Working Pressure



Min. Bend Radius



Weight



Fitting

		in.	in.	mm	psi	MPa	in.	mm	lbs./ft.	
NR8-04	20243676	1/4	0.63	15.9	5000	34.5	2.0	51	0.12	T8
NR8-06	20243677	3/8	0.77	19.4	4000	27.6	2.5	64	0.15	T8
NR8-08	20243678	1/2	0.89	22.7	3500	24.1	4.0	102	0.19	T8

## NR8

Thermoplastic

### Compatible Fittings

All fittings compatible with NR8 are listed in Section 7 (starting on page 286).

## HOSE



# TR7

TR7 is a medium-pressure, twin-line thermoplastic hose with a perforated cover. It is compatible with petroleum-, water- and synthetic-based fluids for mobile equipment, lube lines, blowout preventers, hydraulic lifts and construction machinery.



### PERFORMANCE + SPECS

Meets or exceeds the performance requirements of:

**SAE 100R7**

**Inner Tube**

Nylon

**Reinforcement**

Synthetic fiber

**Cover**

Black urethane, pin-pricked

**Temperature Range**

-40°F to 212°F (-40°C to 100°C)

Note: Maximum temperature for water-based and fire-resistant fluids is 150°F (66°C)

### KEY FEATURES



Twin-Line Hose



4:1 Safety Factor

### BRANDING



TR7-08

SAE 100R7  
1/2" (DN12)

2000 PSI (13.8 MPa)

#	SAP	Hose Size ID	Hose OD		Max. Working Pressure		Min. Bend Radius		Weight	Fitting
Part Number	SAP Number	in.	in.	mm	psi	MPa	in.	mm	lbs./ft.	
TR7-03	20243663	3/16	0.43	10.8	3000	20.7	0.8	20	0.09	T7
TR7-04	20243664	1/4	0.51	13.0	3000	20.7	1.3	33	0.11	T7
TR7-05	20243665	5/16	0.59	15.1	2500	17.2	1.8	46	0.14	T7
TR7-06	20243666	3/8	0.67	17.0	2250	15.5	2.0	51	0.19	T7
TR7-08	20243667	1/2	0.82	20.7	2000	13.8	3.0	76	0.28	T7

## HOSE



## TR7

Thermoplastic

### Compatible Fittings

All fittings compatible with TR7 are listed in Section 7 (starting on page 286).

# TR8

TR8 is a high-pressure, twin-line thermoplastic hose with a perforated cover. It is compatible with petroleum-, water- and synthetic-based fluids for mobile equipment, lube lines, blowout preventers, hydraulic lifts and construction machinery.



## PERFORMANCE + SPECS

Meets or exceeds the performance requirements of:

**SAE 100R8**

**Inner Tube**

Nylon

**Reinforcement**

Synthetic fiber

**Cover**

Black urethane, pin-pricked

**Temperature Range**

-40°F to 212°F (-40°C to 100°C)

Note: Maximum temperature for water-based and fire-resistant fluids is 150°F (66°C)

## KEY FEATURES



Twin-Line Hose



4:1 Safety Factor

## BRANDING



**TR8-08**

SAE 100R8  
1/2" (DN12)

**3500 PSI (24.1 MPa)**

#	SAP	Hose Size ID	Hose OD		Max. Working Pressure		Min. Bend Radius		Weight	Fitting
Part Number	SAP Number	in.	in.	mm	psi	MPa	in.	mm	lbs./ft.	
TR8-06	20243679	3/8	0.77	19.4	4000	27.6	2.5	64	0.30	T8
TR8-08	20416222	1/2	0.89	22.7	3500	24.1	4.0	102	0.38	T8

## TR8

Thermoplastic

### Compatible Fittings

All fittings compatible with TR8 are listed in Section 7 (starting on page 286).

## HOSE



# BR7

BR7 is a medium-pressure, twin-line thermoplastic hose with a non-perforated cover. It is compatible with petroleum-, water- and synthetic-based fluids for mobile equipment, lube lines, blowout preventers, hydraulic lifts and construction machinery requiring SAE 100R7 non-conductivity standards.



## PERFORMANCE + SPECS

Meets or exceeds the performance requirements of:

**SAE 100R7**

### Inner Tube

Polyester

### Reinforcement

Synthetic fiber

### Cover

Orange urethane

### Temperature Range

-65°F to 212°F (-54°C to 100°C)

Note: Maximum temperature for water-based and fire-resistant fluids is 150°F (66°C)

## KEY FEATURES



Non-conductive



Twin-Line Hose



4:1 Safety Factor

## BRANDING



**BR7-08**

SAE 100R7 (Non-Conductive)  
1/2" (DN12)

**2250 PSI (15.5 MPa)**

#	SAP	Hose Size ID	Hose OD		Max. Working Pressure		Min. Bend Radius		Weight	Fitting
Part Number	SAP Number	in.	in.	mm	psi	MPa	in.	mm	lbs./ft.	
BR7-04	20243684	1/4	0.49	12.3	2750	19.1	1.3	33	0.12	T7
BR7-05	20243685	5/16	0.58	14.7	2500	17.2	1.8	46	0.15	T7
BR7-06	20243686	3/8	0.64	16.1	2250	15.5	2.0	51	0.19	T7
BR7-08	20243687	1/2	0.82	20.7	2250	15.5	3.0	76	0.29	T7

**HOSE**



**BR7**

Thermoplastic

### Compatible Fittings

All fittings compatible with BR7 are listed in Section 7 (starting on page 286).

# SR18

SR18 is a highly flexible thermoplastic hose, even in cold temperatures. It has a compact size with a small OD and a lightweight, yet rugged, construction. Applications for this hose include forklifts, construction equipment, general hydraulic applications, chemical and gas transfer, agricultural equipment, material handling, freezer applications, machine tools and robotics, lubrication equipment and portable hydraulic tools.



## PERFORMANCE + SPECS

Meets or exceeds the performance requirements of:

**SAE 100R18**

**Inner Tube**

Polyester

**Reinforcement**

Synthetic fiber

**Cover**

Black Polyester

**Temperature Range**

-65°F to 201°F (-54°C to 94°C)

Note: Maximum temperature for water-based and fire-resistant fluids is 150°F (66°C)

## KEY FEATURES



Handles low temperature



Flexible at low temperature



4:1 Safety Factor

## BRANDING



SR18-08

SAE 100R18  
1/2" (12.7 MM)

3000 PSI (20.7 MPa)

#	SAP	Hose Size ID	Hose OD	Max. Working Pressure		Min. Bend Radius		Weight	Fitting	
Part Number	SAP Number	in.	in.	mm	psi	MPa	in.	mm	lbs./ft.	
SR18-04	20243680	1/4	0.49	12.3	3000	20.7	1.3	32	0.06	T7
SR18-05	20243681	5/16	0.61	15.5	3000	20.7	1.5	38	0.08	T7
SR18-06	20243682	3/8	0.66	16.8	3000	20.7	2.0	51	0.12	T7
SR18-08	20243683	1/2	0.85	21.6	3000	20.7	3.5	89	0.15	T7

## SR18

Thermoplastic

### Compatible Fittings

All fittings compatible with SR18 are listed in Section 7 (starting on page 286).

## HOSE





## SUCTION / RETURN HOSE

	Page	Construction	Inner Tube	Working Pressure (psi)	Temperature Range	Fitting Series	Approvals	Packaging
<b>HR4</b>	103	Spiral	Nitrile	100-350	-40°F to 275°F	UC, BT	MSHA, SAE 100R4, USCG	100' Coil

**HOSE**



**SUCTION / RETURN HOSE**

# HR4

HR4 is a low-pressure, high-temperature return line or suction line for petroleum- and water-based hydraulic fluids. It has a vacuum rating of 29 in Hg. HR4 has half the bend radius of the typical SAE 100R4.



## PERFORMANCE + SPECS

Meets or exceeds the performance requirements of:

**SAE 100R4**

Meets flame resistance

**USMSHA Designation**

**Inner Tube**

NBR (Nitrile)

**Reinforcement**

Spiral-plyed synthetic fabric with wire helix

**Cover**

Black CR (Polychloroprene)

**Temperature Range**

-40°F to 275°F (-40°C to 135°C)

## KEY FEATURES



Handles high temperature



SAE J1942/  
U.S. Coast Guard



1/2 Bend



4:1 Safety Factor

## BRANDING



**HR4-12**

SAE 100R4  
3/4" (19 MM)

**350 PSI (2.41 MPa)**

**MSHA IC-233/O 2Q18**

MADE IN  
CANADA



**Part Number**



**SAP Number**



**Hose Size ID**



**Hose OD**



**Max. Working Pressure**



**Min. Bend Radius**



**Weight**



**Fitting**

		in.	in.	mm	psi	MPa	in.	mm	lbs./ft.	
HR4-12	20325410	3/4	1.162	29.5	350	2.41	2.5	64	0.41	UC, BT
HR4-16	20325411	1	1.460	37.1	325	2.2	3.0	76	0.59	UC, BT
HR4-20	20325412	1 ¼	1.712	43.5	250	1.72	4.0	102	0.72	UC, BT
HR4-24	20325413	1 ½	1.963	49.9	225	1.55	5.0	127	0.85	UC, BT
HR4-32	20325414	2	2.464	62.6	225	1.55	6.0	152	1.12	UC, BT
HR4-40	20325415	2 ½	2.971	75.5	140	0.97	7.0	178	1.45	UC, BT
HR4-48	20325416	3	3.533	89.8	135	0.93	9.0	229	1.90	UC, BT
HR4-64	20325418	4	4.542	115.4	100	0.69	12	305	2.68	UC, BT

## HR4

Low Pressure

### Compatible Fittings

UC fittings are listed in Section 5 (starting on page 246).

BT fittings are listed in Section 4 (starting on page 240).

## HOSE



# READY 2 GO ASSEMBLIES

**R2G** TIME IS MONEY. AND WE ARE SAVING YOU BOTH.

We know your time is valuable. That is why we want to help you get back to doing what you do best, faster. The **Ready 2 Go (R2G)** system has pre-coupled Continental hose assemblies ready for delivery, so you can do less waiting.

And since the R2G System is available in thirty-seven different hose families, you can rely on us to have the hose you need, when you need it. It is convenience on a whole new level.



## Neptune™ 1500

For pressure washer equipment, agricultural sprayers and high-pressure air lines with working pressures up to 1500 psi. Rated to temperatures of -20°F to 200°F (-29°C to 93°C).

### Tube

Nitrile synthetic rubber

### Cover

Blue, Gray, Yellow or Black oil-resistant synthetic rubber, RMA Class B (Medium Oil Resistance)

### Reinforcement

Braided (1) synthetic yarn up through 1/2"  
Braided (2) synthetic yarn for 3/4"

Part Number	Hose Color	Hose Size ID	Packaging	Length
		in.		ft.
20023123	Black	3/8	MXMS with Kink Guards	50
20023125	Black	3/8	MXMS with Kink Guards	100
20070397	Grey	3/8	MXMS with Kink Guards	75

HOSE

Continental



Ready 2 Go Assemblies

## Neptune™ 3000



For use on pressure washer machines with working pressures up to 3000 psi. Rated to temperatures of -20°F to 250°F (-29°C to 121°C).

### Tube

Nitrile synthetic rubber

### Cover

Black, Blue, Yellow or Gray oil-resistant synthetic rubber, RMA Class B (Medium Oil Resistance)

### Reinforcement

Braided (1) steel wire

Part Number	Hose Color	Hose Size ID		Packaging	Length	
			in.			ft.
20023553	Black	3/8		MXMS w/ Kink Guards		25
20023570	Black	3/8		MXMS w/ Kink Guards		50
20023573	Black	3/8		MXMS w/ Kink Guards		75
20023581	Black	3/8		MXMS w/ Kink Guards		100
20023611	Black	1/2		MXMS w/ Kink Guards		50
20023613	Black	1/2		MXMS w/ Kink Guards		100
20023694	Blue	3/8		MXMS w/ Kink Guards		25
20023695	Blue	3/8		MXMS w/ Kink Guards		30
20023696	Blue	3/8		MXMS w/ Kink Guards		40
20023699	Blue	3/8		MXMS w/ Kink Guards		50
20023703	Blue	3/8		MXMS w/ Kink Guards		75
20023705	Blue	3/8		MXMS w/ Kink Guards		100
20023717	Blue	1/2		MXMS w/ Kink Guards		50
20031720	Blue	1/2		MXMS w/ Kink Guards		100
20140094	Gray	3/8		MXMS w/ Kink Guards		40
20023740	Gray	3/8		MXMS w/ Kink Guards		50
20116289	Gray	3/8		MXMS w/ Kink Guards		75
20112264	Gray	3/8		MXMS w/ Kink Guards		100

## Neptune™ 4001-R



For high-pressure washer equipment with working pressures up to 4000 psi. Rated to temperatures of -20°F to 250°F (-29°C to 121°C).

### Tube

Nitrile synthetic rubber

### Cover

Blue, Gray, Yellow or Black oil-resistant synthetic rubber, RMA Class B (Medium Oil Resistance)

### Reinforcement

Braided (1) steel wire

Part Number	Hose Color	Hose Size ID		Packaging	Length	
			in.			ft.
20141700	Black	3/8		MXMS w/ Kink Guards		25
20119464	Black	3/8		MXMS w/ Kink Guards		50
20141702	Black	3/8		MXMS w/ Kink Guards		75
20129270	Black	3/8		MXMS w/ Kink Guards		100
20119465	Blue	3/8		MXMS w/ Kink Guards		50
20135601	Yellow	3/8		MXMS w/ Kink Guards		50



Ready 2 Go Assemblies

HOSE



## Neptune™ 4500



For use on pressure washer machines with working pressures up to 4500 psi. Rated to temperatures of -20°F to 250°F (-29°C to 121°C).

### Tube

Nitrile synthetic rubber

### Cover

Blue, Gray, Yellow or Black oil-resistant synthetic rubber, RMA Class B (Medium Oil Resistance)

### Reinforcement

Braided (1) steel wire

Part Number	Hose Color	Hose Size ID		Packaging	Length	
			in.			ft.
20023775	Black	3/8		MXMS w/ Kink Guards		50
20023778	Black	3/8		MXMS w/ Kink Guards		75
20023785	Black	3/8		MXMS w/ Kink Guards		100
20023796	Black	1/2		MXMS w/ Kink Guards		50
20023799	Black	1/2		MXMS w/ Kink Guards		100
20024007	Blue	3/8		MXMS w/ Kink Guards		50
20142226	Blue	3/8		MXMS w/ Kink Guards		75
20046210	Blue	3/8		MXMS w/ Kink Guards		100

## Neptune™ 6000



For use on pressure washer machines with working pressures up to 6000 psi. Rated to temperatures of -20°F to 250°F (-29°C to 121°C).

### Tube

Nitrile synthetic rubber

### Cover

Black oil resistant synthetic rubber  
RMA Class B (Medium Oil Resistance)

### Reinforcement

Braided (2) steel wires

Part Number	Hose Color	Hose Size ID		Packaging	Length	
			in.			ft.
20130010	Black	3/8		MXMS with Kink Guards		50
20133521	Black	3/8		MXMS with Kink Guards		100

## F5™ Air Hose



A hybrid thermoplastic hose that provides durability and flexibility, is lightweight and has a low drag resistance. F5™ is non-marking, oil resistant and performs well under cold temperatures to -40°F (-40°C) and temperatures as high as 158°F (70°C). This 300 psi hose is designed for a variety of pneumatic applications in industries such as construction and manufacturing.

### Tube

Blue Flexible TPE, RMA Class B  
(Medium Oil Resistance)

### Cover

Matte Blue Flexible TPE, RMA Class B  
(Medium Oil Resistance)

### Reinforcement

Polyester yarn

Part Number	Hose Color	Hose Size ID	Packaging	Length
		in.		ft.
20465479	Blue	3/8	MXM 3/8 NPT	25
20465480	Blue	3/8	MXM 3/8 NPT	100
20465473	Blue	1/2	MXM 1/2 NPT	25
20465474	Blue	1/2	MXM 1/2 NPT	50
20465485	Blue	1/4	MXM 1/4 NPT	25
20463349	Blue	1/4	MXM 1/4 NPT	10
20465487	Blue	1/4	MXM 1/4 NPT	100
20470808	Blue	3/8	MXM 1/4 NPT	50
20479683	Blue	3/8	MXM 3/8 NPT	50

## Frontier®



An economical air and water hose, Frontier® is for a wide range of industrial, construction and agricultural applications. Available in 200, 250 and 300 psi working pressures with a temperature rating of -40°F to 190°F (-40°C to 88°C).

### Cover

Black, Red, Yellow, Green or  
Blue EPDM synthetic rubber

### Reinforcement

Spiral synthetic yarn, 2" is braided

**Tube**  
EPDM synthetic rubber, RMA Class C (Limited  
Oil Resistance)

Product Name	Part Number	Hose Color	Hose Size ID	Packaging	Length
			in.		ft.
Frontier 200	20129541	Red	1/4	MXM 1/4 NPT	25
Frontier 200	20132830	Red	1/4	MXM 1/4 NPT	50
Frontier 200	20129680	Red	3/8	MXM 1/4 NPT	25
Frontier 200	20132831	Red	3/8	MXM 1/4 NPT	50
Frontier 200	20129682	Red	3/8	MXM 1/4 NPT	100
Frontier 200	20132832	Red	1/2	MXM 1/2 NPT	50
Frontier 250	20147652	Red	3/4	MXM 3/4 NPT	100
Frontier 300	20147625	Red	1/4	MXM 1/4 NPT	50
Frontier 300	20147626	Red	1/4	MXM 1/4 NPT	100
Frontier 300	20147627	Red	3/8	MXM 1/4 NPT	50
Frontier 300	20147628	Red	3/8	MXM 1/4 NPT	100
Frontier 200	20147629	Red	1/2	MXM 1/2 NPT	50
Frontier 200	20147650	Red	1/2	MXM 1/2 NPT	100



Ready 2 Go Assemblies

HOSE





## Gorilla®

A premium-quality, multipurpose industrial hose with a wide range of applications in factories, construction, agriculture, quarries, mines, railroads, the oil and gas industry and shipbuilding. All sizes are rated at 500 psi (3.4 MPa) maximum working pressure and have temperature ratings of -20°F to 190°F (-29°C to 88°C). Non-conductive, minimum electrical resistance greater than one (1) megohm per inch of hose length at 1000 Volts DC.

### Tube

Nitrile synthetic rubber, RMA Class A (High Oil Resistance)

### Cover

Yellow Carbryn™ synthetic rubber, RMA Class A (High Oil Resistance), MSHA approved

### Reinforcement

Spiral aramid yarn, 2" is braided synthetic yarn

Part Number	Hose Color	Hose Size ID	Packaging	Length
		in.		ft.
20129563	Yellow	1/4	MXM 1/4 NPT	25
20132763	Yellow	1/4	MXM 1/4 NPT	50
20129566	Yellow	3/8	MXM 3/8 NPT	25
20132764	Yellow	3/8	MXM 3/8 NPT	50
20129569	Yellow	1/2	MXM 1/2 NPT	25
20132766	Yellow	1/2	MXM 1/2 NPT	50
20129582	Yellow	3/4	MXM 3/4 NPT	50
20129683	Yellow	3/4	Universal	50



## Contractor's Water Hose

Designed for commercial water transfer and washdown applications requiring heavy duty service. Rated to temperatures of -40°F to 190°F (-40°C to 88°C).

**Tube** EPDM

**Cover** Black EPDM

### Reinforcement

Spiral synthetic yarn

Part Number	Hose Color	Hose Size ID	Packaging	Length
		in.		ft.
20243769	Black	5/8	MF GHT	50
20243770	Black	3/4	MF GHT	50

## Pathfinder™ Garden Hose



For in-home, lawn and garden, apartment, smaller plant and commercial property applications. Rated to temperatures of -40°F to 190°F (-40°C to 88°C).

**Tube**  
EPDM synthetic rubber

**Cover**  
Green EPDM synthetic rubber

**Reinforcement**  
Spiral synthetic yarn

Part Number	Hose Color	Hose Size ID	Packaging	Length
		in.		ft.
20026217	Green	5/8	MF Brass 5/8" GHT	50

## Yardmaster™ Garden Hose



Experience the next generation of garden hose. Rated to temperatures of -40°F to 158°F (-40°C to 70°C).

**Features**

- > Thermoplastic Elastomer hybrid materials
- > 20% lighter than rubber garden hose
- > Improved flexibility at low temperatures

Part Number	Hose Color	Hose Size ID	Packaging	Length
		in.		ft.
20583057	Green	5/8	MF Brass 5/8" GHT	50
20530170	Green	1/2	MF Brass 1/2" GHT	50



## Heavy Duty & Cold Water Premium Rubber Hose

A commercial premium rubber hose.  
Rated to temperatures of -40°F to 160°F  
(-40°C to 71°C).

### Features

- › Reinforced for high burst strength
- › Abrasion- and weather-resistant
- › Crush-resistant brass fittings

Part Number	Hose Color	Hose Size ID	Packaging	Length
		in.		ft.
20582671	Black	5/8	MF Brass 5/8" GHT	50



## Heavy Duty & Hot Water Premium Rubber Hose

A commercial premium hot-water hose.  
Rated to temperatures of -40°F to 190°F  
(-40°C to 88°C).

### Features

- › Abrasion-resistant
- › Flexible in cold temperatures
- › Internal spring coil prevents kinking at faucet
- › Crush-resistant brass fittings

Part Number	Hose Color	Hose Size ID	Packaging	Length
		in.		ft.
20582672	Red	5/8	MF Brass 5/8" GHT	50



### Twin-Line Welding (Grade R Type VD)

For welding service. Meets RMA IP-7 standard for Grade R welding hose. Rated to temperatures of -40°F to 120°F (-40°C to 49°C).

**Tube**

EPDM synthetic rubber compatible with oxygen and acetylene gases

**Cover**

EPDM synthetic rubber smooth surface

**Reinforcement**

Spiral synthetic yarn

Part Number	Hose Color	Hose Size ID	Packaging	Length
		in.		ft.
20027151	Red/Green	1/4	1/4" Grade R Type BB Fit	25
20027152	Red/Green	1/4	1/4" Grade R Type BB Fit	50
20027153	Red/Green	1/4	1/4" Grade R Type BB Fit	100



### Twin-Line Welding (Grade T Type VD)

For welding service. Meets RMA IP-7 and CGA E-1 standards for Grade T welding hose. Non-conductive. Rated to temperatures of -40°F to 120°F (-40°C to 49°C).

**Tube**

Synthetic rubber compatible with all common welding fuel gases

**Cover**

Chemivac synthetic rubber smooth cover

**Reinforcement**

Spiral synthetic yarn

Part Number	Hose Color	Hose Size ID	Packaging	Length
		in.		ft.
20027453	Red/Green	1/4	1/4" Grade T Type BB Fit.	50
20027454	Red/Green	1/4	1/4" Grade T Type BB Fit.	100
20027493	Red/Green	3/8	3/8" Grade T Type BB Fit.	25
20027495	Red/Green	3/8	3/8" Grade T Type BB Fit.	50
20027497	Red/Green	3/8	3/8" Grade T Type BB Fit.	100

### Welding Hose Compatibility Chart

	Oxygen	Acetylene	Fuel Gases*	Flame & Oil Resistant Tube	Flame & Oil Resistant Cover
	Green	Red	Red		
Twin-Line, Grade R	Yes	Yes	No	No	No
Twin-Line, Grade RM	Yes	Yes	No	No	Yes
Twin-Line, Grade T	Yes	Yes	Yes	Yes	Yes
Single-Line, Grade R	Yes	Yes	No	No	No
Single-Line, Grade RM	Yes	Yes	No	No	Yes
Single-Line, Grade T	Yes	Yes	Yes	Yes	Yes

\*Fuel gases are defined in RMA IP-7 welding hose standard. Flammable compressed gases commonly used in the welding and cutting industry including, but not limited to, acetylene, hydrogen, methane/natural gas, LP gas, propylene and methylacetylene propadiene stabilized. RMA IP-7 and CGA E-1.



Ready 2 Go Assemblies

HOSE



## Hose Working Pressure Selection Guide

### Hose Dash Size and Recommended Working Pressures

This table is to be used as a guide in the selection of hose by maximum working pressure. The recommended maximum working pressure should not be the only factor in hose selection. Final selection of the hose is further dependent on fluid and ambient temperatures, the concentration of the fluid and intermittent or continuous exposure.

Pressure Range	Family Part #	Hose Description	Dash Size							
			02	03	04	05	06	08	10	12
			Hose ID							
			1/8"	3/16"	1/4" R5, UT: 3/16"	5/16" R5, UT: 1/4"	3/8" R5: 5/16"	1/2" R5, UT, AC: 13/32"	5/8" R5, UT, AC: 1/2"	3/4" R5, UT, AC: 5/8"
Low Pressure	SR6	SAE 100R6 / EN 854 R6		500	400	400	400	400	350	300
	HR6	SAE 100R6 / EN 854 R6 (High Temperature)			400	400	400	400	350	300
	HR4	SAE 100R4								350
	SR3	SAE 100R3 / EN 854 R3			1250	1200	1125	1000		750
Low Pressure Push-On	IG	Insta-Grip™ 300 (Non-Conductive)			300	300	300	300	300	300
	IGHT	Insta-Grip™ HT 300 (High Temperature)			300		300	300	300	300
	IGTC	Insta-Grip™ TC			300	300	300	300	300	300
	FXG	FLEXAGrip™		400	400		400	400	400	400
Medium Pressure	SR1SN	SAE 100R1AT / 1SN		3625	3260	3120	2615	2320	1890	1530
	Desert® DR1SN	SAE 100R1AT / 1SN (High Temperature)			3270		2615	2320	1890	1530
	SFS	SAE 100R1AT (Fire Suppression)			2750		2250	2000		1250
High Pressure	SR2SN	SAE 100R2AT / 2SN		6000	5800		4800	4000	3630	3120
	Desert® DR2SN	SAE 100R2AT / 2SN (High Temperature)			5800		4800	4000	3630	3120
	XR16SC	SAE 100R16 / EN 857 2SC			5800		5000	5000	4000	3500
	Arctic® LR16SC	SAE 100R16 / EN 857 2SC			5800		5000	4500	4000	3500
	Arctic® LR2SN	SAE 100R2AT / 2SN (Low Temperature)			5000		4800	4000	3630	3120
	Arctic® LCP3	SAE 100R17			3250		3250	3250		
	Arctic® LCP4S	SAE 100R12 / EN 856 4SH					4100	4100	4100	4100
	Arctic® LCP6S	SAE 100R15 / EN 857 4SP					6100	6100	6100	6100
	DR16SC	SAE 100R16 / EN 857 2SC			5075		5000	4500	4000	3500
	SR16SC	SAE 100R16 / EN 857 2SC			5800		5000	5000	4000	3500
	Armorcoat™ ARC16SC	SAE 100R16 / EN 857 2SC (Abrasion Cover)			5800		5000	5000	4350	3500

**HOSE**


### General Information

Working Pressure Selection Guide

## Hose Working Pressure Selection Guide

Pressure Range	Family Part #	Hose Description	Dash Size									
			14	16	20	24	32	40	48	56	64	
			Hose ID									
			7/8" UT, AC: 3/4"	1" R5, UT: 7/8"	1 1/4" R5, UT: 1 1/8"	1 1/2" R5: 1 3/8"	2" R5: 1 13/16"	2 1/2"	3"	3 1/2"	4"	
Low Pressure	SR6	SAE 100R6 / EN 854 R6										
	HR6	SAE 100R6 / EN 854 R6 (High Temperature)										
	HR4	SAE 100R4		325	250	225	225	140	135			100
	SR3	SAE 100R3 / EN 854 R3		565	377				58			
Low Pressure Push-On	IG	Insta-Grip™ 300 (Non-Conductive)		300								
	IGHT	Insta-Grip™ HT 300 (High Temperature)										
	IGTC	Insta-Grip™ TC										
	FXG	FLEXAGrip™		400								
Medium Pressure	SR1SN	SAE 100R1AT / 1SN		1280	920	730	580					
	Desert® DR1SN	SAE 100R1AT / 1SN (High Temperature)		1280	920	730	580					
	SFS	SAE 100R1AT (Fire Suppression)		1000								
High Pressure	SR2SN	SAE 100R2AT / 2SN		2400	1820	1310	1160					
	Desert® DR2SN	SAE 100R2AT / 2SN (High Temperature)		2400								
	XR16SC	SAE 100R16 / EN 857 2SC		3000	2250							
	Arctic® LR16SC	SAE 100R16 / EN 857 2SC		3000								
	Arctic® LR2SN	SAE 100R2AT / 2SN (Low Temperature)		2400	1820		1160					
	Arctic® LCP3	SAE 100R17										
	Arctic® LCP4S	SAE 100R12 / EN 856 4SH		4100	4100							
	Arctic® LCP6S	SAE 100R15 / EN 857 4SP		6100	6100							
	DR16SC	SAE 100R16 / EN 857 2SC		3000								
	SR16SC	SAE 100R16 / EN 857 2SC		3000	1813							
	Armorcoat™ ARC16SC	SAE 100R16 / EN 857 2SC (Abrasion Cover)		3000								

### General Information

Working Pressure Selection Guide

**HOSE**



## Hose Working Pressure Selection Guide

Pressure Range	Family Part #	Hose Description	Dash Size								
			02	03	04	05	06	08	10	12	
			Hose ID								
			1/8"	3/16"	1/4" R5, UT: 3/16"	5/16" R5, UT: 1/4"	3/8" R5: 5/16"	1/2" R5, UT, AC: 13/32"	5/8" R5, UT, AC: 1/2"	3/4" R5, UT, AC: 5/8"	
High Pressure	XCP3	SAE 100R17 (Constant Pressure)			3250		3250	3250	3250	3250	
	SCP3	SAE 100R17 (Constant Pressure)			3045		3045	3045	3045	3045	
	Armorcoat™ ACP3	SAE 100R17 (Abrasion Cover)			3250		3250	3250	3250		
Very High Pressure	XCP4	SAE 100R19 / ISO 11237			4060		4060	4060	4060	4060	
	XCP3S	SAE 100R12									
	XCP4S	SAE 100R12 / EN 856 4SH					4100	4100	4100	4100	
	XCP5S	SAE 100R13					5100	5100	5100	5100	
	XCP6S	SAE 100R15 / EN 856 4SP					6100	6100	6100	6100	
	SR12	SAE 100R12 / EN 856 R12					4100	4100	4100	4100	
	Armorcoat™ ARC12	SAE 100R12 / EN 856 R12 (Abrasion Cover)					4100	4100	4100	4100	
	SR13	SAE 100R13 / EN 856 R13								5100	
	ARC13	SAE 100R13 / EN 856 R13 (Abrasion Cover)						6100		6100	
	SR15	SAE 100R15						6100		6100	
	Armorcoat™ ARC15	SAE 100R15 (Abrasion Cover)						6100		6100	
	S4SP	EN 856 4SP						6455	6020	5075	5510
	S4SH	EN 856 4SH									6090
Thermo-plastic	SR7	SAE 100R7 / EN 855 R7	2500	3000	3000	2500	2250	2000		1250	
	TR7	SAE 100R7 (Twin-Line)		3000	3000	2500	2250	2000			
	NR7	SAE 100R7 (Non-Conductive)	2500	3000	2750	2500	2250	2250		1250	
	BR7	SAE 100R7 (Twin-Line, Non-Conductive)			2750	2500	2250	2250			
	SR8	SAE 100R8 / EN 855 R8		5000	5000		4000	3500			
	TR8	SAE 100R8 (Twin-Line)					4000	3500			
	NR8	SAE 100R8 (Non-Conductive)			5000		4000	3500			
	SR18	SAE 100R18			3000	3000	3000	3000			

**HOSE**


### General Information

Working Pressure Selection Guide

## Hose Working Pressure Selection Guide

Pressure Range	Family Part #	Hose Description	Dash Size									
			14	16	20	24	32	40	48	56	64	
			Hose ID									
			7/8" UT, AC: 3/4"	1" R5, UT: 7/8"	1 1/4" R5, UT: 1 1/8"	1 1/2" R5: 1 3/8"	2" R5: 1 13/16"	2 1/2"	3"	3 1/2"	4"	
High Pressure	XCP3	SAE 100R17 (Constant Pressure)		3250								
	SCP3	SAE 100R17 (Constant Pressure)		3045								
	Armorcoat™ ACP3	SAE 100R17 (Abrasion Cover)										
Very High Pressure	XCP4	SAE 100R19 / ISO 11237										
	XCP3S	SAE 100R12			3100	3100	3100					
	XCP4S	SAE 100R12 / EN 856 4SH		4100	4100	4100	4100					
	XCP5S	SAE 100R13		5100	5100	5100	5100					
	XCP6S	SAE 100R15 / EN 856 4SP		6100	6100	6100	6100					
	SR12	SAE 100R12 / EN 856 R12		4100	3050	2550	2550					
	Armorcoat™ ARC12	SAE 100R12 / EN 856 R12 (Abrasion Cover)		4100	3050	2550	2550					
	SR13	SAE 100R13 / EN 856 R13		5100	5100	5100	5100					
	Armorcoat™ ARC13	SAE 100R13 / EN 856 R13 (Abrasion Cover)		5100	5100	5100	5100					
	SR15	SAE 100R15		6100	6100	6100						
	Armorcoat™ ARC15	SAE 100R15 (Abrasion Cover)		6100								
	S4SP	EN 856 4SP		4640								
	S4SH	EN 856 4SH		5510	5080	4025	3650					
	Thermo-plastic	SR7	SAE 100R7 / EN 855 R7		1000							
		TR7	SAE 100R7 (Twin-Line)									
NR7		SAE 100R7 (Non-Conductive)		1000								
BR7		SAE 100R7 (Twin-Line, Non-Conductive)										
SR8		SAE 100R8 / EN 855 R8										
TR8		SAE 100R8 (Twin-Line)										
NR8		SAE 100R8 (Non-Conductive)										
SR18		SAE 100R18										

## Hose Working Pressure Selection Guide

Pressure Range	Family Part #	Hose Description	Dash Size							
			02	03	04	05	06	08	10	12
			Hose ID							
			1/8"	3/16"	1/4" R5, UT: 3/16"	5/16" R5, UT: 1/4"	3/8" R5: 5/16"	1/2" R5, UT, AC: 13/32"	5/8" R5, UT, AC: 1/2"	3/4" R5, UT, AC: 5/8"
<b>Special Application</b>	NSFX	Saflex® (Non-Conductive)			2750		2250	2000		
	BOP	Prospector™ BOP (Blowout Preventor)					3000 / 5000	3000 / 5000		3000 / 5000
	SGUN	Grease Gun Hose		3000						
	SHJ	Jack Hose			10000		10000			
	Hot Oiler	Prospector™ Hot Oiler								
<b>Fleet Application</b>	SR14A	SAE 100R14A		3000	3000	2500	2250	1500	1200	1100
	SR5	SAE 100R5			3000	3000	2250	2000	1750	1500
	Desert® DR5	SAE 100R5 (High Temperature)			3000	3000	2250	2000	1750	1500
	Desert® DUT	Universal Truck			2000	1500	1500	1250	1000	750
<b>Military Application</b>	MIL-DTL-13444H-I	MIL-DTL-13444 Type I		425	300	275	250	200	175	125
	MIL-DTL-13444H-III	MIL-DTL-13444 Type III			1500	1500	1000	1000	875	750
	MIL-DTL-13531	MIL-DTL-13531 Type II Class A		5000	5000	4250	4000	3500	2750	2250
	MIL-DTL-39921	MIL-DTL-39921 Type I Class I					200		200	
	MIL-DTL-8788	MIL-DTL-8788			3000	3000	3000	3000	3000	3000

## Hose Working Pressure Selection Guide

Pressure Range	Family Part #	Hose Description	Dash Size								
			14	16	20	24	32	40	48	56	64
			Hose ID								
			7/8"	1"	1 1/4"	1 1/2"	2"	2 1/2"	3"	3 1/2"	4"
			UT, AC: 3/4"	R5, UT: 7/8"	R5, UT: 1 1/8"	R5: 1 3/8"	R5: 1 13/16"				
<b>Special Application</b>	NSFX	Saflex® (Non-Conductive)									
	BOP	Prospector™ BOP (Blowout Preventor)		3000 / 5000	5000	5000	5000				
	SGUN	Grease Gun Hose									
	SHJ	Jack Hose									
	Hot Oiler	Prospector™ Hot Oiler				2500					
<b>Fleet Application</b>	SR14A	SAE 100R14A		900							
	SR5	SAE 100R5		800	625	500	350				
	Desert® DR5	SAE 100R5 (High Temperature)		800	625	500	350				
	Desert® DUT	Universal Truck		400	300						
<b>Military Application</b>	MIL-DTL-13444H-I	MIL-DTL-13444 Type I									
	MIL-DTL-13444H-III	MIL-DTL-13444 Type III			375	300					
	MIL-DTL-13531	MIL-DTL-13531 Type II Class A		2000	2000						
	MIL-DTL-39921	MIL-DTL-39921 Type I Class I									
	MIL-DTL-8788	MIL-DTL-8788			3000						

### General Information

Working Pressure Selection Guide

**HOSE**



# Hydraulic Hose Special Attributes

Family Part #	Hose Description	Meets Flame Resistance USMSHA	Meets Higher DIN / EN Pressure	USCG Approved	ABS Approved	High Temp Hose	Low Temp Hose	Abrasion Cover Hose	Twin-Line Hose	Non-Conductive Hose	Fire Tested	SAE J1402 / DOT
SR1SN	SAE 100R1AT / 1SN											
Desert® DR1SN	SAE 100R1AT / 1SN			≤ 1	Pending							
SFS	SAE 100R1AT / 1SN (Fire Suppression)											
SR2SN	SAE 100R2AT / 2SN				-4 to -16							
Arctic® LR16SC	SAE 100R16 / EN 857 2SC											
Arctic® LR2SN	SAE 100R2AT / 2SN											
Arctic® LCP3	SAE 100R17 / 2SN											
Arctic® LCP4S	SAE 100R12 / 2SN											
Arctic® LCP6S	SAE 100R15 / 2SN											
Desert® DR16SC	SAE 100R16 / EN 857 2SC											
Desert® DR2SN	SAE 100R2AT / 2SN				Pending							
SR3	SAE 100R3 / EN 854 R3											
HR4	SAE 100R4											
SR5	SAE 100R5											
Desert® DR5	SAE 100R5											
Desert® DUT	SAE J1402 A1 (Universal Truck)											
SR6	SAE 100R6 / EN 854 R6											
HR6	SAE 100R6 / EN 854 R6											
SR7	SAE 100R7 / EN 855 R7											
NR7	SAE 100R7 (Non-Conductive)											
NSFX	Saflex® (Non-Conductive)											
TR7	SAE 100R7 (Twin-Line)											
BR7	SAE 100R7 (Twin-Line, Non-Conductive)											
SR8	SAE 100R8 / EN 855 R8											

## Hydraulic Hose Special Attributes

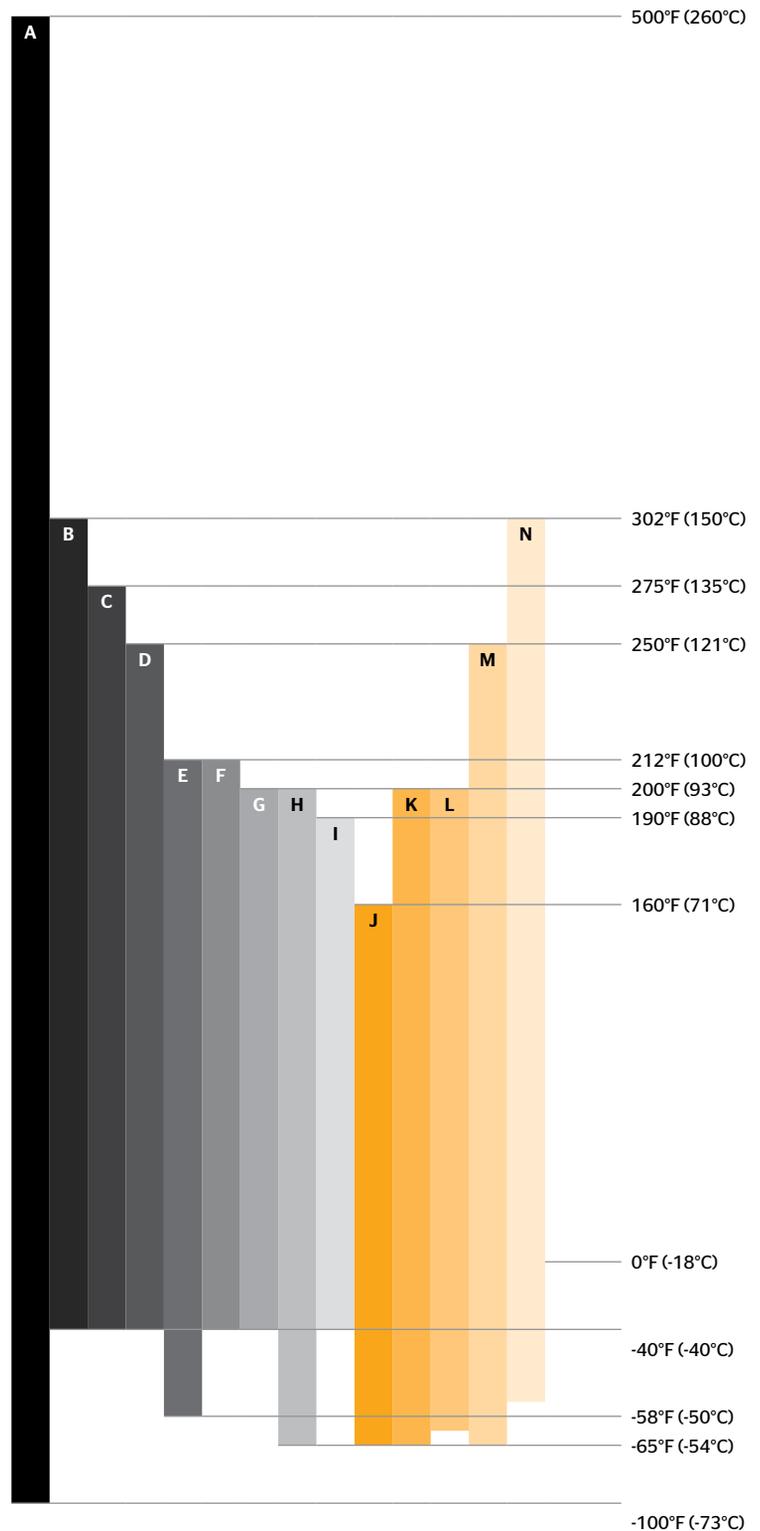
Family Part #	Hose Description	Meets Flame Resistance USMSHA	Meets Higher DIN / EN Pressure	USCG Approved	ABS Approved	High Temp Hose	Low Temp Hose	Abrasion Cover Hose	Twin-Line Hose	Non-Conductive Hose	Fire Tested	SAE J1402 / DOT
NR8	SAE 100R8 (Non-Conductive)											
TR8	SAE 100R8 (Twin-Line)											
S4SH	EN 856 4SH / DIN 20023 4SH				Pending							
S4SP	EN 856 4SP / DIN 20023 4SP				Pending							
XCP4	SAE 100R19 / ISO 11237 R19											
SR12	SAE 100R12 / EN 856 R12				Pending							
Armorcoat™ ARC12	SAE 100R12 / EN 856 R12											
SR13	SAE 100R13 / EN 856 R13				Pending							
Armorcoat™ ARC13	SAE 100R13 / EN 856 R13											
SR14A	SAE 100R14A											
SR15	SAE 100R15			Pending	Pending							
Armorcoat™ ARC15	SAE 100R15											
SR16SC	SAE 100R16 / EN 857 2SC											
XR16SC	SAE 100R16 / EN 857 2SC											
Armorcoat™ ARC16SC	SAE 100R16 / EN 857 2SC											
SCP3	SAE 100R17											
Armorcoat™ ACP3	SAE 100R17											
XCP3	SAE 100R17											
XCP3S	SAE 100R12											
XCP4S	SAE 100R12 / EN 856 4SH			-24 and -32 Pending								
XCP5S	SAE 100R13											
XCP6S	SAE 100R15 / EN 856 4SP											
SR18	SAE 100R18											
BOP	Prospector™ BOP (Blowout Preventor)											
SGUN	Grease Gun Hose											

## Hydraulic Hose Special Attributes

Family Part #	Hose Description	Meets Flame Resistance USMSHA	Meets Higher DIN / EN Pressure	USCG Approved	ABS Approved	High Temp Hose	Low Temp Hose	Abrasion Cover Hose	Twin-Line Hose	Non-Conductive Hose	Fire Tested	SAE J1402 / DOT
SHJ	Jack Hose											
IG	Insta-Grip™ 300 (Push-On)											
IGHT	Insta-Grip™ HT 300 (Push-On, High Temp)											
IGTC	Insta-Grip™ TC (Push-On, Textile Cover)											
FXG	FLEXAGrip™ (Push-On)											
MIL-DTL-13444H-I	MIL-DTL-13444H Type I (Military)											
MIL-DTL-13444H-III	MIL-DTL-13444H Type III (Military)											
MIL-DTL-13531-BA	MIL-DTL-13531 Type II Class A (Military)											
MIL-DTL-39921	MIL-DTL-39921 Type I Class I (Military)											
MIL-DTL-8788	MIL-DTL-8788 (Military)											

# Hydraulic Hose Temperature Limits

<b>A</b>	<b>SR14A</b>	SAE 100R14A*
<b>B</b>	<b>Desert® DR5</b>	SAE 100R5 / DOT FMVSS 106 All**
	<b>Desert® DUT</b>	Universal Truck
	<b>IGHT</b>	Insta-Grip™ HT 300
	<b>Desert® DR15N</b>	SAE 100R1AT/1SN
	<b>Desert® DR2SN</b>	SAE 100R2AT/2SN
	<b>Desert® DR16SC</b>	SAE 100R16 / EN 857 2SC
<b>C</b>	<b>HR4</b>	SAE 100R4
	<b>HR6</b>	SAE 100R6 / EN 854 R6
<b>D</b>	<b>SR12</b>	SAE 100R12 / EN 856 R12
	<b>ARC12</b>	Armorcoat™ SAE 100R12 / EN 856 R12
	<b>SR13</b>	SAE 100R13 / EN 854 R13
	<b>ARC13</b>	Armorcoat™ SAE 100R13 / EN 856 R13
	<b>SR15</b>	SAE 100R15
	<b>ARC15</b>	Armorcoat™ SAE 100R15
	<b>BOP 5000</b>	Prospector™ BOP 5000
<b>E</b>	<b>Arctic® LR16SC</b>	SAE 100R16
	<b>Arctic® LR2SN</b>	SAE 100R2AT/2SN
	<b>Arctic® LCP3</b>	SAE 100R17
	<b>Arctic® LCP4S</b>	SAE 100R12
	<b>Arctic® LCP6S</b>	SAE 100R15
<b>F</b>	<b>SFS</b>	SAE 100R1AT Fire Suppression
	<b>SR15N</b>	SAE 100R1AT/1SN
	<b>SR25N</b>	SAE 100R2AT/2SN
	<b>SR3</b>	SAE 100R3 / EN 854 R3
	<b>SR5</b>	SAE 100R5 / DOT FMVSS 106 All
	<b>SR6</b>	SAE 100R6 / EN 854 R6
	<b>NSFX</b>	Saflex® Non-Conductive
	<b>S4SH</b>	EN 856 4SH / DIN 20023 4SH
	<b>S4SP</b>	EN 856 4SP / DIN 20023 4SP
	<b>SR16SC</b>	SAE 100R16 / EN 857 2SC
	<b>XR16SC</b>	SAE / EN 857 2SC
	<b>ARC16SC</b>	Armorcoat™ SAE 100R16 / EN 857 2SC
	<b>SCP3</b>	SAE 100R17
	<b>XCP3</b>	SAE 100R17 Constant Pressure
	<b>ACP3</b>	Armorcoat™ SAE 100R17
	<b>XCP4</b>	SAE 100R19 / ISO 11237
	<b>SGUN</b>	Grease Gun Hose
	<b>SHJ</b>	Jack Hose
	<b>BOP 3000</b>	Prospector™ BOP 3000
	<b>G</b>	<b>SR7</b>
<b>TR7</b>		SAE 100R7 Twin-Line
<b>SR8</b>		SAE 100R8 / EN 858 R8
<b>TR8</b>		SAE 100R8 Twin-Line
<b>NR8</b>		SAE 100R8 Non-Conductive
<b>IGTC</b>		Insta-Grip™ TC
<b>FXG</b>		FLEXAGrip™
<b>H</b>		<b>NR7</b>
	<b>BR7</b>	SAE 100R7 Twin-Line, Non-Conductive
	<b>SR18</b>	SAE 100R18
<b>I</b>	<b>Insta-Grip™ 300</b>	
<b>J</b>	<b>MIL-8788</b>	
<b>K</b>	<b>MIL-13531</b>	
<b>L</b>	<b>MIL-3992</b>	
<b>M</b>	<b>MIL-13444-I</b>	
<b>N</b>	<b>MIL-13444-III</b>	



\*Intermittent Service      \*\*Hot Oil/Hydraulic Application

**General Information**  
Temperature Limits



# Hose Accessories

## Protective Sleeving

Protective sleeves extend hose life by protecting hose covers from abrasion typically found in industries such as agricultural, logging, construction and mining. Protective sleeving can also be useful in bundling hose assemblies, making it easier to handle multiple hose.



### FEATURES + SPECS

**Abrasion-resistant**

**MSHA Approved**

**Good resistance to sun, atmospheric agents and aging**

**Temperature Range**

-40°F to 340°F (-40°C to 171.1°C)

**Material**

Polyamide 6 (nylon)

**Color**

Black

**Available Lengths**

Continuous 100' rolls

Descriptive Number	Product Number	SAP Number	ID	Flat Width	Weight
			in.	in.	lbs./ft.
GTEXS20	60200-0020	20243598	0.79	1.34	.02
GTEXS25	60200-0025	20243599	0.98	1.65	.03
GTEXS27	60200-0027	20243600	1.06	1.77	.03
GTEXS31	60200-0031	20243601	1.22	2.05	.04
GTEXS36	60200-0036	20243602	1.42	2.24	.04
GTEXS40	60200-0040	20243603	1.57	2.60	.05
GTEXS44	60200-0044	20243604	1.73	2.83	.06
GTEXS55	60200-0055	20243605	2.17	3.50	.07

## Protective Wrap

Protective wrap extends hose life by offering resistance to kinking and cover abrasion. A protective wrap may also be used for the bundling of hose lines for easier handling.



### FEATURES + SPECS

**Can be installed without disconnecting hose**

**Can be overlapped for greater protection**

**Lightweight**

**Temperature Range**

-30°F to 185°F (-34°C to 85°C)

**Material**

Cellulose acetate (thermoplastic)

**Color**

Black

**Available Lengths**

Continuous 66' rolls

Descriptive Number	Product Number	SAP Number	ID	Flat Width	Weight
			in.	in.	lbs./ft.
HWRAP-12	60210-0012	20243592	0.50	.07	.05
HWRAP-16	60210-0016	20243593	0.63	.07	.06
HWRAP-19	60210-0019	20243594	0.75	.09	.08
HWRAP-25	60210-0025	20243595	1.00	.09	.12
HWRAP-35	60210-0035	20243596	1.38	.09	.17
HWRAP-47	60210-0047	20243597	1.85	.15	.28

Extruded spiral will have +/- 4% variation in thickness and weight.

**HOSE**

**Continental**

**Hose Accessories**

Protective Sleeving / Protective Wrap

# Hose Accessories

## Hose Routing Clamps

Routing clamps can be used for support for long hose lengths. They also aid proper hose routing where abrasion or heat exists.



### FEATURES + SPECS

#### Material

Steel with 1/32" thick black vinyl cushion

Descriptive Number	Product Number	SAP Number	Clamping Diameter	Bolt Hole
			in.	in.
HRC-0413	60300-0413	20539632	3/16	1/4
HRC-0509	60300-0509	20539633	1/4	9/32
HRC-0709	60300-0709	20431807	3/8	9/32
HRC-0809	60300-0809	20431808	7/16	9/32
HRC-0913	60300-0913	20431809	1/2	13/32
HRC-1013	60300-1013	20431810	9/16	13/32
HRC-1113	60300-1113	20431811	5/8	13/32
HRC-1213	60300-1213	20431812	11/16	13/32
HRC-1313	60300-1313	20431813	3/4	13/32
HRC-1413	60300-1413	20431814	13/16	13/32
HRC-1513	60300-1513	20431815	7/8	13/32
HRC-1613	60300-1613	20431816	15/16	13/32
HRC-1713	60300-1713	20431817	1	13/32
HRC-1813	60300-1813	20431818	1 1/16	13/32
HRC-1913	60300-1913	20431819	1 1/8	13/32
HRC-2017	60300-2017	20431820	1 3/16	17/32
HRC-2117	60300-2117	20431821	1 1/4	17/32
HRC-2317	60300-2317	20431822	1 3/8	17/32
HRC-2517	60300-2517	20431823	1 1/2	17/32
HRC-2617	60300-2617	20431824	1 5/16	17/32
HRC-2917	60300-2917	20431825	1 3/4	17/32
HRC-3117	60300-3117	20431826	1 7/8	17/32
HRC-3217	60300-3217	20431827	1 15/16	17/32
HRC-3317	60300-3317	20431828	2	17/32
HRC-3417	60300-3417	20431829	2 1/32	17/32
HRC-3817	60300-3817	20431830	2 1/2	17/32



# FITTINGS



## Hydraulic Fitting Families

The Continental fitting product line is broken into sections based on the fitting type:

1	2	3	4	5	6	7	8	9	10
B2	SG	S6, SE, DG	BT	UC	FG	TP	UT	Specialty	Ferrules
SR1SN	SR12	SR13	HR4	SR1SN	SR5	SR7	DUT	NSFX	SR1SN
DR1SN	ARC12	ARC13		SR2SN	DR5	TR7		Hot Oiler	SR2SN
SFS	SR13	SR15		SR3		NR7		SGUN	SR3
SR2SN	ARC13	ARC15		SR5		BR7		SHJ	SR5
DR2SN	SR15	XCP5S		DR5		SR8		IG	DR5
LR16SC	ARC15	XCP6S		SR6		TR8		IGHT	SR6
LR2SN	LCP4S			HR6		NR8		IGTC	HR6
LCP3	LCP6S			HR4		SR18		FXG	HR4
SR16SC	S4SP			SR14A					SR14A
ARC16SC	S4SH			SFS					SFS
DR16SC	XCP3S			SCP3					SCP3
XR16SC	XCP4S			ACP3					ACP3
SCP3	XCP5S			BOP					BOP
ACP3	XCP6S								SR13
XCP3									ARC13
XCP4									SR15
SR12									S4SP
ARC12									S4SH
Hot Oiler									XCP6S

## Quick-Find™ Fittings

**Continental Brand Quick-Find™ Hydraulic Hose and Fitting catalog makes fitting selection very easy with a 5-step process.**

### Step 1 - Choose the Hose Type

The first step in choosing the correct fitting is selecting the hose type from one of the 9 sections (excluding ferrules).

*Note: Some hose may appear in more than one section, depending on the hose dash size and/or whether the desired fitting solution is a one-piece (B2, BT, SG, S6), two-piece (UC, DG) or re-attachable (FG).*

### Step 2 - Choose the Fitting Description

Once the hose type has been identified, go to the correct section and view the available fittings for that particular hose. Within the content of each section there is a table for each fitting.

The Fitting Description at the top of each table describes the following elements:

<b>JIC 37° Flare (SAE J514)</b>	<b>Female</b>	<b>45° Elbow</b>	<b>Swivel</b>
Thread Description	Gender	Elbow	Swivel or Non-Swivel

### Step 3 - Choose Hose ID and Thread Size

Choose the correct fitting selected in Step 2 based on the Hose ID and Thread Size. In some cases, a fitting may be available in several thread sizes. As an example, a JIC 37° Flare (SAE J514) Female Swivel is available for a Hose ID of 3/8" and thread sizes 9/16 -18 and 3/4 -16.

### Step 4 - Determine Availability for Hose Type

With the desired fitting identified by Hose ID and thread size in Step 3, confirm the fitting is compatible for a particular hose type by referencing the hose listed in the footer shown on the bottom of the page.

### Step 5 - Note the Part Number

The fitting part number can now be noted. The part number is found on the left side of the chart. For UC and DG two-piece fittings, see Section 10 - Ferrules to find the appropriate ferrule.



Download the **MyCrimp App** for more information.

## General Information

Fitting Selection

## FITTINGS



# Hydraulic Fittings Nomenclature

EXAMPLE: **B2 - JCFX45 - 0608**



## FITTING FAMILY

### First 2 Characters

<b>B2</b>	
<b>BT</b>	Ultra-Crimp™ (1-piece fitting)
<b>S6</b>	
<b>SG</b>	
<b>T7</b>	Thermoplastic (1-piece fitting)
<b>T8</b>	
<b>FG</b>	Field-Grip™ (1-piece reattachable fitting)
<b>UT</b>	DUT Hose (1-piece reattachable fitting)
<b>UC</b>	Uni-Crimp™ Stem (2-piece fitting)
<b>DG</b>	Dual-Grip Stem (2-piece internal and external skive fitting)
<b>PB</b>	Push-On Brass (1-piece fitting)
<b>SF</b>	Saflex® (1-piece fitting)
<b>GG</b>	Grease Gun (1-piece fitting)

## THREAD DESCRIPTION

### Next 2-7 Characters

Refer to the next page  
for detailed information.

## HOSE DASH SIZE

### Next 2 Characters

All hose except SAE 100R5,  
DUT and Galaxy Hose:

<b>02</b>	1/8"	(32 mm)
<b>03</b>	3/16"	(4.8 mm)
<b>04</b>	1/4"	(6.4 mm)
<b>05</b>	5/16"	(7.9 mm)
<b>06</b>	3/8"	(9.5 mm)
<b>08</b>	1/2"	(12.7 mm)
<b>10</b>	5/8"	(15.9 mm)
<b>12</b>	3/4"	(19 mm)
<b>16</b>	1"	(25.4 mm)
<b>20</b>	1 1/4"	(31.8 mm)
<b>24</b>	1 1/2"	(38.1 mm)
<b>32</b>	2"	(50.8 mm)
<b>40</b>	2 1/2"	(63.5 mm)

SAE 100R5, DUT and  
Galaxy Hose:

<b>04</b>	3/16"	(4.8 mm)
<b>05</b>	1/4"	(6.4 mm)
<b>06</b>	5/16"	(7.9 mm)
<b>08</b>	13/32"	(10.3 mm)
<b>10</b>	1/2"	(12.7 mm)
<b>12</b>	5/8"	(15.9 mm)
<b>14</b>	3/4"	(19.1 mm)
<b>16</b>	7/8"	(22.2 mm)
<b>20</b>	1 1/8"	(28.6 mm)
<b>24</b>	1 3/8"	(35 mm)
<b>32</b>	1 13/16"	(46 mm)

## THREAD DASH SIZE

### Last 2 Characters

See the Thread  
Reference Chart  
for converting dash  
size to thread sizes  
(starting on page  
334).

<b>02</b>
<b>03</b>
<b>04</b>
<b>05</b>
<b>06</b>
<b>08</b>
<b>10</b>
<b>12</b>
<b>14</b>
<b>15</b>
<b>16</b>
<b>18</b>
<b>20</b>
<b>22</b>
<b>24</b>
<b>26</b>
<b>28</b>
<b>30</b>
<b>32</b>
<b>33</b>
<b>36</b>
<b>40</b>
<b>42</b>
<b>45</b>
<b>52</b>

## Warning - Selection of Fitting

Selection of the proper fittings for the application is essential to the proper operation and safe use of the hose and related equipment. Inadequate attention to the selection of the hose fitting for the application can result in hose leakage, bursting or other failures, which can cause serious bodily injury or property damage from spraying fluids or flying projectiles. Some of the factors involved in the selection of the proper hose ends are:

› **Fluid Compatibility** › **Pressure** › **Temperature** › **Installation Design** › **Hose Size** › **Corrosion Requirements**

If there are any questions as to what fitting should be used, Continental recommends that you consult the Continental Hydraulics Application Group for assistance.

### Proper Assembly of Continental Hose and Fittings

Continental hose, fittings and crimping equipment work together to provide an efficient and reliable hose connection. Continental hose and fittings are part of an engineered system and are to be assembled in accordance with Continental specifications. Using non-Continental components may produce an assembly that does not meet rated performance. Continental DOES NOT WARRANT, EXPRESSLY OR BY IMPLICATION, HOSE ASSEMBLIES THAT DO NOT INCORPORATE Continental HOSE AND FITTINGS, OR ARE NOT CRIMPED IN ACCORDANCE WITH Continental's PROCESS SPECIFICATIONS.

Buyers may elect to attach additional or non-standard parts or equipment, or to use different manufacturing specifications, as necessary to meet the requirements of the buyer or customer's application. In such cases, the buyer has sole responsibility to qualify the hose for these applications as necessary to ensure performance capability.

For guidance in the assembly of Continental hose and couplings, please refer to the Continental Crimp Specifications Manual. Information in this catalog is believed to be accurate, but is not warranted, and is subject to change without prior notice.

For the most current available product information, check [www.continental-industry.com](http://www.continental-industry.com).

### Hydraulic Fittings Nomenclature

Thread	Thread Description	Gender	Swivel	Elbow	Thread	Thread Description	Gender	Swivel	Elbow
JC FX		Female	Swivel		OF FX		Female	Swivel	
JC FX45		Female	Swivel	45° Elbow	OF FX45		Female	Swivel	45° Elbow
JC FX90		Female	Swivel	90° Elbow	OF FX90		Female	Swivel	90° Elbow
JC FX90L	JIC 37° Flare (SAE J514)	Female	Swivel	90° Elbow (Long Drop-Tube)	OF FX90L	O-Ring Face Seal (SAE J1453 ORS/ORFS)	Female	Swivel	90° Elbow (Long Drop-Tube)
JC FX90S		Female	Swivel	90° Elbow (Short Drop-Tube)	OF FX90S		Female	Swivel	90° Elbow (Short Drop-Tube)
JC M		Male			OF M		Male		
SF FX		Female	Swivel		OB M		Male		
SF FX45		Female	Swivel	45° Elbow	OB MX	O-Ring Boss Straight Thread (SAE J514)	Male	Swivel	
SF FX90		Female	Swivel	90° Elbow	OB MX90B		Male	Swivel	90° Block Elbow
SF FX90L	SAE 45° J512 Flare	Female	Swivel	90° Elbow (Long Drop-Tube)	FL				
SF FX90S		Female	Swivel	90° Elbow (Short Drop-Tube)	FL 22				22.5° Elbow
SF M		Male			FL 30				30° Elbow
SI F		Female			FL 45				45° Elbow
SI M		Male			FL 60	Code 61 Flange (SAE J518)			60° Elbow
SI MX	SAE 45° Inverted Flare	Male	Swivel		FL 67				67° Elbow
SI MX45		Male	Swivel	45° Elbow	FL 90				90° Elbow
SI MX90		Male	Swivel	90° Elbow	FL 110				110° Elbow
NP F		Female			FL 135				135° Elbow
NP FX		Female	Swivel		FL 90EOC	Engine Oil Connection			90° Elbow
NP M		Male			FH				
NP M90	NPTF	Male		90° Elbow	FH 22				22.5° Elbow
NP MX		Male	Swivel		FH 30				30° Elbow
NP MX90B		Male	Swivel	90° Block Elbow	FH 45	Code 62 Flange (SAE J518)			45° Elbow
NP MAPI	NPTF Oil Field Connection	Male			FH 60				60° Elbow
HM	Hose Mender				FH 67				67° Elbow
NS FX	NPSM	Female	Swivel		FH 90				90° Elbow
FT M	SAE J514 Flareless Tube Fittings	Male			CF				
GT F	Grease Trap	Female			CF 22				22.5° Elbow
SP	Standpipe				CF 30				30° Elbow
SP 45				45° Elbow	CF 45	Caterpillar® Flange			45° Elbow
					CF 60				60° Elbow
					CF 67				67° Elbow
					CF 90				90° Elbow

Continued on the next page.



Download the **MyCrimp App**  
for more information.

**General Information**  
Hydraulic Fittings Nomenclature

**FITTINGS**

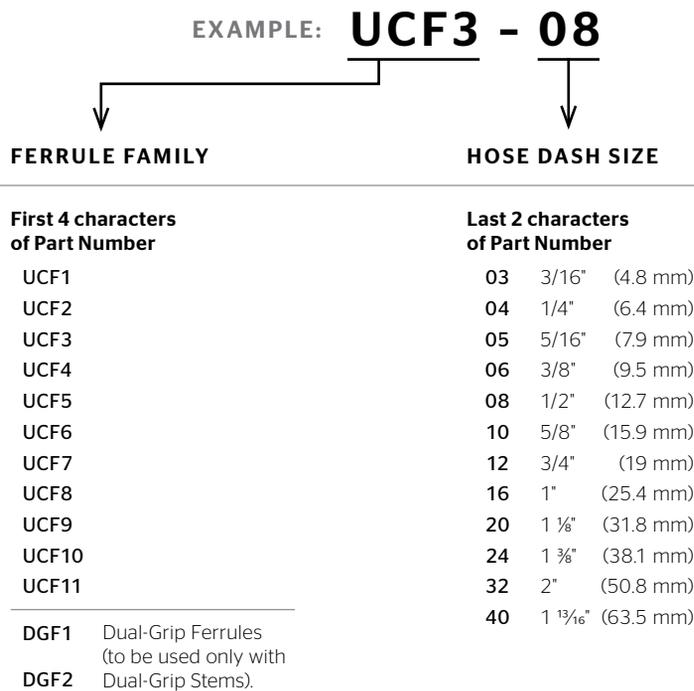


## Hydraulic Fittings Nomenclature Continued

Thread	Thread Description	Gender	Swivel	Elbow
KF				
KF 45	Komatsu Flange			45° Elbow
KF 90				90° Elbow
BP		Female	Swivel	
BP	BSPP (British Standard Pipe Parallel)	Female	Swivel	45° Elbow
BP		Female	Swivel	90° Elbow
BP		Male	Swivel	
BT M	BSPT (British Standard Pipe Tapered)	Male		
BF FX	BSP Flat Seat (British Standard Pipe)	Female	Swivel	
DL FX		Female	Swivel	
DL FX45	DIN 24° Light	Female	Swivel	45° Elbow
DL FX90		Female	Swivel	90° Elbow
DL M		Male		

Thread	Thread Description	Gender	Swivel	Elbow
DH FX		Female	Swivel	
DH FX45	DIN 24° Heavy	Female	Swivel	45° Elbow
DH FX90		Female	Swivel	90° Elbow
DH M		Male		
DN FX45	DIN 60	Female	Swivel	45° Elbow
DN FX90		Female	Swivel	90° Elbow
KM		Female	Swivel	
KM	Komatsu 30° Flare (Metric Threads)	Female	Swivel	45° Elbow
KM		Female	Swivel	90° Elbow
JS FX	JIS 30° (Parallel Pipe Thread)	Female	Swivel	
PTT FX	PTT 30° (for DUT hose)	Female	Swivel	

## Hydraulic Ferrule Nomenclature



# SECTION 1 - B2 FITTINGS

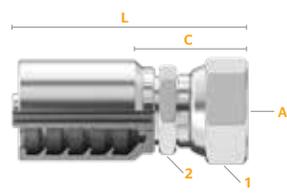
This section lists all fittings compatible with the following hose:

Hose	Description	Compatible Dash Size	Hose	Description	Compatible Dash Size
SR1SN	SAE 100R1AT / EN 853 1SN	All hose dash sizes	DR16SC	SAE 100R16 / EN 857 2SC	All hose dash sizes
DR1SN	SAE 100R1AT / EN 853 1SN	All hose dash sizes	XR16SC	SAE 100R16 / EN 857 2SC	All hose dash sizes
SFS	Fire Suppression	All hose dash sizes	SCP3	SAE 100R17	All hose dash sizes
SR2SN	SAE 100R2AT / EN 856 2SN	All hose dash sizes	ACP3	SAE 100R17	All hose dash sizes
DR2SN	SAE 100R2AT / EN 853 2SN	All hose dash sizes	XCP3	SAE 100R17	All hose dash sizes
LR2SN	SAE 100R2AT / EN 856 2SN	All hose dash sizes	XCP4	SAE 100R19 / ISO 11237	All hose dash sizes
LR16SC	SAE 100R16 / EN 857 2SC	All hose dash sizes	ACP4	SAE 100R19	All hose dash sizes
LCP3	SAE 100R17	All hose dash sizes	SR12	SAE 100R12 / EN 856 R12	Hose dash sizes -20 to -32
SR16SC	SAE 100R16 / EN 857 2SC	All hose dash sizes	ARC12	SAE 100R12 / EN 856 R12	Hose dash sizes -20 to -32
			ARC16SC	SAE 100R16 / EN 857 2SC	All hose dash sizes

## How to Use the Fittings Table

The fittings in this section will follow a similar table structure to the one seen on this page.

Fitting dimensions and attributes are explained below.



### Fitting Name

Fitting Description

Part Number	Product Number	SAP Number										
			Hose ID	Thread Size (A)	Hex 1 Wrench Size	Hex 2 Wrench Size	Cut-Off (C)	Length (L)				
			in.		in.	mm	in.	mm	in.	mm	in.	mm
B2-JCFX-0404	14400-0404	20242031	1/4	7/16-20	5/8	16	9/16	14	1.17	29.6	2.15	54.5
B2-JCFX-0808	14400-0808	20242008	1/2	3/4-16	1	25	3/4	19	1.44	36.7	2.69	68.4

### Fitting Dimensions and Attributes

**Part Number** See Hydraulic Fittings Nomenclature on page 128 for a breakdown of part number attributes

**Hose ID** The compatible Hose ID

**Tube ID** The compatible Tube ID

**Thread Size** The thread size or sizes available for a particular fitting dash size (indicated by **A** in the fitting image)

**Flange Size** The flange size or sizes available for a particular fitting dash size (indicated by **A** in the fitting image)

**Hex Size** The wrench size for one or both nuts on the fitting (indicated by **1** or **2** in the fitting image)

**Drop** The length of the elbow (indicated by **D** in the fitting image)

**Cut-Off** The amount of hose to be cut for a correct assembly length (indicated by **C** in the fitting image)

**Length** The overall length of the fitting

**Skive Type** For applicable fittings, a skive type will be indicated as Skive, Non-Skive or Dual-Grip

Choose fittings carefully, considering the working pressure of both the hose and fitting. The maximum working pressure of the hose assembly is the lesser of the rated working pressure of the hose and the fitting. See page 333 for the Fittings Working Pressure Guide.



Download the **MyCrimp App** for more information.

**Section 1**  
B2 Fittings

**FITTINGS**



# B2 Fittings Overview

A complete overview of all B2 fittings found in this section.

<p><b>JIC 37° Flare (SAE J514)</b> Female Swivel</p>  <p>B2-JCFX P. 135</p>	<p><b>JIC 37° Flare (SAE J514)</b> Female 45° Elbow Swivel</p>  <p>B2-JCFX45 P. 136</p>	<p><b>JIC 37° Flare (SAE J514)</b> Female 90° Elbow Swivel</p>  <p>B2-JCFX90 P. 137</p>	<p><b>JIC 37° Flare (SAE J514)</b> Female 90° Block Elbow Swivel</p>  <p>B2-JCFX90B P. 139</p>
<p><b>JIC 37° Flare (SAE J514)</b> Male</p>  <p>B2-JCM P. 139</p>	<p><b>SAE 45° J512 Flare</b> Female Swivel</p>  <p>B2-SFFX P. 140</p>	<p><b>SAE 45° J512 Flare</b> Female 45° Elbow Swivel</p>  <p>B2-SFFX45 P. 141</p>	<p><b>SAE 45° J512 Flare</b> Female 90° Elbow Swivel</p>  <p>B2-SFFX90 P. 141</p>
<p><b>SAE 45° J512 Flare</b> Male</p>  <p>B2-SFM P. 142</p>	<p><b>SAE 45° Inverted Flare</b> Male Swivel</p>  <p>B2-SIMX P. 142</p>	<p><b>SAE 45° Inverted Flare</b> Male 45° Elbow Swivel</p>  <p>B2-SIMX45 P. 143</p>	<p><b>SAE 45° Inverted Flare</b> Male 90° Elbow Swivel</p>  <p>B2-SIMX90 P. 143</p>
<p><b>NPTF</b> Female</p>  <p>B2-NPF P. 144</p>	<p><b>NPTF</b> Female Swivel</p>  <p>B2-NPFX P. 144</p>	<p><b>NPTF</b> Male</p>  <p>B2-NPM P. 145</p>	<p><b>NPTF</b> Male Swivel</p>  <p>B2-NPMX P. 146</p>
<p><b>NPTF</b> Male 90° Block Elbow Swivel</p>  <p>B2-NPMX90B P. 147</p>	<p><b>NPSM</b> Female Swivel</p>  <p>B2-NSFX P. 147</p>	<p><b>GTF</b> Female</p>  <p>B2-GTF P. 148</p>	<p><b>SAE J514 Flareless Tube Fitting</b></p>  <p>B2-FTM P. 148</p>
<p><b>Standpipe</b></p>  <p>B2-SP P. 149</p>	<p><b>Standpipe 45° Elbow</b></p>  <p>B2-SP45 P. 149</p>	<p><b>O-Ring Face Seal (SAE J1453 ORS/ORFS)</b> Female Swivel</p>  <p>B2-OFFX P. 150</p>	<p><b>O-Ring Face Seal (SAE J1453 ORS/ORFS)</b> Female 45° Elbow Swivel</p>  <p>B2-OFFX45 P. 151</p>
<p><b>O-Ring Face Seal (SAE J1453 ORS/ORFS)</b> Female 90° Elbow Swivel</p>  <p>B2-OFFX90 P. 152</p>	<p><b>O-Ring Face Seal (SAE J1453 ORS/ORFS)</b> Male</p>  <p>B2-OFM P. 153</p>	<p><b>O-Ring Boss Straight Thread (SAE J514)</b> Male</p>  <p>B2-OBM P. 154</p>	<p><b>O-Ring Boss Straight Thread (SAE J514)</b> Male Swivel</p>  <p>B2-OBMX P. 155</p>

**COMPATIBLE HOSE:**

SR1SN	SR2SN	LR16SC	DR16SC	ACP3	SR12	ARC16SC
DR1SN	DR2SN	LCP3	XR16SC	XCP3	ARC12	Hot Oiler
SFS	LR2SN	SR16SC	SCP3	XCP4		

For a detailed list, please refer to your Crimp Specifications Manual.

# B2 Fittings Overview

A complete overview of all B2 fittings found in this section.

<p><b>O-Ring Boss Straight Thread (SAE J514)</b> Male 90° Block Elbow Swivel</p>  <p>B2-OBMX90B P. 155</p>	<p><b>Code 61 Flange (SAE J518)</b></p>  <p>B2-FL P. 156</p>	<p><b>Code 61 Flange (SAE J518)</b> 22.5° Elbow</p>  <p>B2-FL22 P. 156</p>	<p><b>Code 61 Flange (SAE J518)</b> 30° Elbow</p>  <p>B2-FL30 P. 157</p>
<p><b>Code 61 Flange (SAE J518)</b> 45° Elbow</p>  <p>B2-FL45 P. 157</p>	<p><b>Code 61 Flange (SAE J518)</b> 60° Elbow</p>  <p>B2-FL60 P. 158</p>	<p><b>Code 61 Flange (SAE J518)</b> 67° Elbow</p>  <p>B2-FL67 P. 158</p>	<p><b>Code 61 Flange (SAE J518)</b> 90° Elbow</p>  <p>B2-FL90 P. 159</p>
<p><b>Code 61 Flange (SAE J518)</b> 110° Elbow</p>  <p>B2-FL110 P. 159</p>	<p><b>Code 62 Flange (SAE J518)</b></p>  <p>B2-FH P. 160</p>	<p><b>Code 62 Flange (SAE J518)</b> 22.5° Elbow</p>  <p>B2-FH22 P. 160</p>	<p><b>Code 62 Flange (SAE J518)</b> 30° Elbow</p>  <p>B2-FH30 P. 161</p>
<p><b>Code 62 Flange (SAE J518)</b> 45° Elbow</p>  <p>B2-FH45 P. 161</p>	<p><b>Code 62 Flange (SAE J518)</b> 60° Elbow</p>  <p>B2-FH60 P. 162</p>	<p><b>Code 62 Flange (SAE J518)</b> 90° Elbow</p>  <p>B2-FH90 P. 162</p>	<p><b>Caterpillar® Flange</b></p>  <p>B2-CF P. 163</p>
<p><b>Caterpillar® Flange</b> 22.5° Elbow</p>  <p>B2-CF22 P. 163</p>	<p><b>Caterpillar® Flange</b> 45° Elbow</p>  <p>B2-CF45 P. 163</p>	<p><b>Caterpillar® Flange</b> 60° Elbow</p>  <p>B2-CF60 P. 164</p>	<p><b>Caterpillar® Flange</b> 67° Elbow</p>  <p>B2-CF67 P. 164</p>
<p><b>Caterpillar® Flange</b> 90° Elbow</p>  <p>B2-CF90 P. 164</p>	<p><b>IHUF Hammer Union</b></p>  <p>B2-IHUF P. 165</p>	<p><b>IHUM Hammer Union</b></p>  <p>B2-IHUM P. 165</p>	<p><b>Komatsu® Flange</b></p>  <p>B2-KF P. 165</p>
<p><b>Komatsu® Flange</b> 45° Elbow</p>  <p>B2-KF45 P. 165</p>	<p><b>Komatsu® Flange</b> 90° Elbow</p>  <p>B2-KF90 P. 166</p>	<p><b>BSPP (British Standard Pipe Parallel)</b> Female Swivel</p>  <p>B2-BPFX P. 166</p>	<p><b>BSPP (British Standard Pipe Parallel)</b> Female 45° Elbow Swivel</p>  <p>B2-BPFX45 P. 167</p>



Download the **MyCrimp App** for more information.

**Section 1**  
B2 Fittings

**FITTINGS**



# B2 Fittings Overview

A complete overview of all B2 fittings found in this section.

<p><b>BSPP (British Standard Pipe Parallel)</b></p> <p>Female 90° Elbow Swivel</p>  <p>B2-BPFX90 P. 167</p>	<p><b>BSPP (British Standard Pipe Parallel)</b></p> <p>Male</p>  <p>B2-BPM P. 168</p>	<p><b>BSPT (British Standard Pipe Tapered)</b></p> <p>Male</p>  <p>B2-BTM P. 168</p>	<p><b>BSP Flat Seat (British Standard Pipe)</b></p> <p>Female Swivel</p>  <p>B2-BFFX P. 169</p>
<p><b>DIN 24° Light</b></p> <p>Female Swivel</p>  <p>B2-DLFX P. 169</p>	<p><b>DIN 24° Light</b></p> <p>Female 45° Elbow Swivel</p>  <p>B2-DLFX45 P. 170</p>	<p><b>DIN 24° Light</b></p> <p>Female 90° Elbow Swivel</p>  <p>B2-DLFX90 P. 170</p>	<p><b>DIN 24° Light</b></p> <p>Male</p>  <p>B2-DLM P. 171</p>
<p><b>DIN 24° Heavy</b></p> <p>Female Swivel</p>  <p>B2-DHFX P. 172</p>	<p><b>DIN 24° Heavy</b></p> <p>Female 45° Elbow Swivel</p>  <p>B2-DHFX45 P. 173</p>	<p><b>DIN 24° Heavy</b></p> <p>Female 90° Elbow Swivel</p>  <p>B2-DHFX90 P. 174</p>	<p><b>DIN 24° Heavy</b></p> <p>Male</p>  <p>B2-DHM P. 175</p>
<p><b>DIN 60°</b></p> <p>Female 45° Elbow Swivel</p>  <p>B2-DNFX45 P. 175</p>	<p><b>DIN 60°</b></p> <p>Female 90° Elbow Swivel</p>  <p>B2-DNFX90 P. 176</p>	<p><b>Komatsu® 30° Flare with Metric Threads</b></p> <p>Female Swivel</p>  <p>B2-KMFX P. 176</p>	<p><b>Komatsu® 30° Flare with Metric Threads</b></p> <p>Female 45° Elbow Swivel</p>  <p>B2-KMFX45 P. 177</p>
<p><b>Komatsu® 30° Flare with Metric Threads</b></p> <p>Female 90° Elbow Swivel</p>  <p>B2-KMFX90 P. 177</p>	<p><b>JIS 30° (Parallel Pipe Threads)</b></p> <p>Female Swivel</p>  <p>B2-JSFX P. 178</p>	<p><b>Hose Joiner</b></p> <p>Female</p>  <p>B2-HJ P. 178</p>	

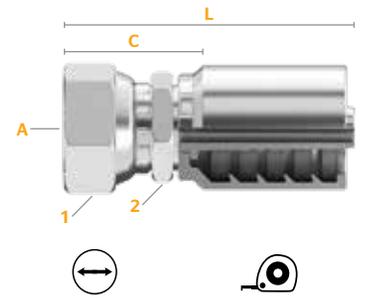
**COMPATIBLE HOSE:**

SR1SN	SR2SN	LR16SC	DR16SC	ACP3	SR12	ARC16SC
DR1SN	DR2SN	LCP3	XR16SC	XCP3	ARC12	Hot Oiler
SFS	LR2SN	SR16SC	SCP3	XCP4		

For a detailed list, please refer to your Crimp Specifications Manual.

## JIC 37° Flare (SAE J514)

Female / Swivel



Part Number	Product Number	SAP Number										
			Hose ID	Thread Size (A)	Hex 1 Wrench Size	Hex 2 Wrench Size	Cut-Off (C)	Length (L)				
			in.		in.	mm	in.	mm	in.	mm	in.	mm
B2-JCFX-0403	14400-0403	20293242	1/4	3/8-24	9/16	14	1/2	12	1.11	28.1	2.09	53.0
B2-JCFX-0404	14400-0404	20242031	1/4	7/16-20	5/8	16	9/16	14	1.17	29.6	2.15	54.5
B2-JCFX-0404S	14400-0404S	20286835	1/4	7/16-20	5/8	16	9/16	14	1.17	29.6	2.15	54.5
B2-JCFX-0405	14400-0405	20242032	1/4	1/2-20	11/16	17	9/16	14	1.24	31.4	2.22	56.3
B2-JCFX-0406	14400-0406	20242029	1/4	9/16-18	3/4	19	9/16	14	1.23	31.2	2.21	56.1
B2-JCFX-0406S	14400-0406S	20286836	1/4	9/16-18	3/4	19	9/16	14	1.23	31.2	2.21	56.1
B2-JCFX-0505	14400-0505	20242038	5/16	1/2-20	11/16	17	9/16	14	1.24	31.4	2.22	56.3
B2-JCFX-0506	14400-0506	20242037	5/16	9/16-18	3/4	19	9/16	14	1.23	31.2	2.21	56.1
B2-JCFX-0604	14400-0604	20265707	3/8	7/16-20	5/8	16	11/16	17	1.16	29.4	2.21	56.0
B2-JCFX-0604S	14400-0604S	20873071	3/8	7/16-20	5/8	16	11/16	17	1.16	29.4	2.21	56.0
B2-JCFX-0606	14400-0606	20242041	3/8	9/16-18	3/4	19	11/16	17	1.22	31.1	2.27	57.7
B2-JCFX-0606S	14400-0606S	20286837	3/8	9/16-18	3/4	19	11/16	17	1.22	31.1	2.27	57.7
B2-JCFX-0608	14400-0608	20242050	3/8	3/4-16	1	25	3/4	19	1.37	34.9	2.42	61.5
B2-JCFX-0608S	14400-0608S	20286838	3/8	3/4-16	1	25	3/4	19	1.37	34.9	2.42	61.5
B2-JCFX-0610	14400-0610	20242043	3/8	7/8-14	1 1/16	27	7/8	22	1.53	38.8	2.58	65.5
B2-JCFX-0612	14400-0612	20293243	3/8	1 1/16-12	1 1/4	32	1	25	1.64	41.6	2.69	68.3
B2-JCFX-0806	14400-0806	20242034	1/2	9/16-18	3/4	19	3/4	19	1.29	32.8	2.54	64.5
B2-JCFX-0806S	14400-0806S	20424925	1/2	9/16-18	3/4	19	3/4	19	1.29	32.8	2.54	64.5
B2-JCFX-0808	14400-0808	20242008	1/2	3/4-16	1	25	3/4	19	1.44	36.7	2.69	68.4
B2-JCFX-0808S	14400-0808S	20286839	1/2	3/4-16	1	25	3/4	19	1.44	36.7	2.69	68.4
B2-JCFX-0810	14400-0810	20242036	1/2	7/8-14	1 1/16	27	7/8	22	1.56	39.6	2.81	71.3
B2-JCFX-0810S	14400-0810S	20286840	1/2	7/8-14	1 1/16	27	7/8	22	1.56	39.6	2.81	71.3
B2-JCFX-0812	14400-0812	20241925	1/2	1 1/16-12	1 1/4	32	1	25	1.68	42.6	2.93	74.3
B2-JCFX-0816	14400-0816	20293244	1/2	1 1/16-12	1 1/2	38	1 1/4	32	1.83	46.5	3.08	78.2
B2-JCFX-1008	14400-1008	20242005	5/8	3/4-16	1	25	15/16	24	1.52	38.7	2.88	73.2
B2-JCFX-1010	14400-1010	20242004	5/8	7/8-14	1 1/16	27	15/16	24	1.67	42.4	3.03	76.9
B2-JCFX-1010S	14400-1010S	20286841	5/8	7/8-14	1 1/16	27	15/16	24	1.67	42.4	3.03	76.9
B2-JCFX-1012	14400-1012	20242026	5/8	1 1/16-12	1 1/4	32	1	25	1.68	42.6	3.04	77.1
B2-JCFX-1210	14400-1210	20242047	3/4	7/8-14	1 1/4	32	1 1/16	27	1.63	41.4	3.18	80.8
B2-JCFX-1212	14400-1212	20242025	3/4	1 1/16-12	1 1/4	32	1 1/16	27	1.74	44.2	3.29	83.6
B2-JCFX-1212S	14400-1212S	20286842	3/4	1 1/16-12	1 1/4	32	1 1/16	27	1.74	44.2	3.29	83.6
B2-JCFX-1214	14400-1214	20242049	3/4	1 3/16-12	1 1/16	36	1 1/4	32	1.76	44.6	3.31	84.0
B2-JCFX-1216	14400-1216	20242046	3/4	1 3/16-12	1 1/2	38	1 1/4	32	1.89	48.1	3.45	87.5

Continued on the next page.



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**Section 1**  
B2 Fittings

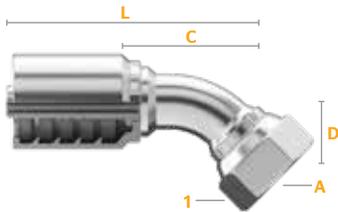
**FITTINGS**



## JIC 37° Flare (Female) Continued

Part Number	Product Number	SAP Number	Hose ID	Thread Size (A)	Hex 1		Hex 2		Cut-Off (C)		Length (L)	
					Wrench Size	Wrench Size	Wrench Size	Wrench Size	in.	mm	in.	mm
B2-JCFX-1612	14400-1612	20241921	1	1 1/16-12	1 1/4	32	1 1/4	32	1.88	47.7	3.65	92.8
B2-JCFX-1616	14400-1616	20241916	1	1 3/16-12	1 1/2	38	1 1/4	32	1.96	49.8	3.74	94.9
B2-JCFX-1616S	14400-1616S	20286843	1	1 3/16-12	1 1/2	38	1 1/4	32	1.96	49.8	3.74	94.9
B2-JCFX-1620 <sup>T</sup>	14400-1620	20241919	1	1 1/8-12	2	50	1 3/8	41	2.07	52.5	3.84	97.6
B2-JCFX-2020S <sup>T</sup>	28400-2020S	20289599	1 1/4	1 1/8-12	2	50	1 3/8	41	2.15	54.6	4.20	106.6
B2-JCFX-2020 <sup>T</sup>	28400-2020	20241915	1 1/4	1 1/8-12	2	50	1 3/8	41	2.15	54.6	4.20	106.6
B2-JCFX-2024 <sup>T</sup>	28400-2024	20293262	1 1/4	1 1/8-12	2 3/16	55	2	50	2.45	62.1	4.49	114.1
B2-JCFX-2424S <sup>T</sup>	28400-2424S	20289598	1 1/2	1 1/8-12	2 3/16	55	2	50	2.42	61.4	4.75	120.6
B2-JCFX-2424 <sup>T</sup>	28400-2424	20241928	1 1/2	1 1/8-12	2 3/16	55	2	50	2.42	61.4	4.75	120.6
B2-JCFX-3232 <sup>T</sup>	28400-3232	20242028	2	2 1/2-12	70 mm	70	2 3/16	65	2.88	73.1	5.71	145.1
B2-JCFX-3232S <sup>T</sup>	28400-3232S	20739385	2	2 1/2-12	2 3/4	70	2 3/16	65	2.88	73.1	5.71	145.1

S=Stainless Steel T=Thrust-Wire Nut (See Fitting Identification in Appendix for more information.)



## JIC 37° Flare (SAE J514)

Female / 45° Elbow / Swivel



Part Number	Product Number	SAP Number	Hose ID	Thread Size (A)	Hex 1		Drop (D)		Cut-Off (C)		Length (L)	
					Wrench Size							
B2-JCFX45-0404	14420-0404	20241948	1/4	7/16-20	5/8	16	0.39	10	1.457	37.0	2.437	61.9
B2-JCFX45-0405	14420-0405	20241962	1/4	1/2-20	11/16	17	0.47	12	1.46	37.0	2.44	61.9
B2-JCFX45-0406	14420-0406	20241949	1/4	9/16-18	3/4	19	0.43	11	1.54	39.0	2.52	63.9
B2-JCFX45-0604	14420-0604	20873201	3/8	7/16-20	5/8	16	0.41	10	1.457	37.1	2.506	63.8
B2-JCFX45-0606	14420-0606	20241950	3/8	9/16-18	3/4	19	0.43	11	1.81	46.0	2.86	72.6
B2-JCFX45-0608	14420-0608	20241954	3/8	3/4-16	1	25	0.59	15	1.85	47.0	2.90	73.6
B2-JCFX45-0806	14420-0806	20873202	1/2	9/16-18	3/4	19	0.59	15	2.047	52.0	3.294	83.7
B2-JCFX45-0808	14420-0808	20241963	1/2	3/4-16	1	25	0.59	15	2.05	52.0	3.29	83.7
B2-JCFX45-0810	14420-0810	20241965	1/2	7/8-14	1 1/16	27	0.63	16	2.01	51.0	3.26	82.7
B2-JCFX45-1010	14420-1010	20241980	5/8	7/8-14	1 1/16	27	0.87	22	2.56	65.0	3.92	99.5
B2-JCFX45-1012	14420-1012	20241967	5/8	1 1/8-12	1 1/4	32	0.83	21	2.72	69.0	4.07	103.5
B2-JCFX45-1212	14420-1212	20241951	3/4	1 1/8-12	1 1/4	32	0.83	21	2.64	67.0	4.19	106.5
B2-JCFX45-1216	14420-1216	20241953	3/4	1 1/8-12	1 1/2	38	1.02	26	2.80	71.0	4.35	110.4
B2-JCFX45-1612	14420-1612	20293221	1	1 1/8-12	1 1/4	32	1.18	30	2.76	70.0	4.53	115.1
B2-JCFX45-1616	14420-1616	20241957	1	1 3/16-12	1 1/2	38	0.95	24	3.11	79.0	4.89	124.1
B2-JCFX45-2020 <sup>T</sup>	28420-2020	20241961	1 1/4	1 1/8-12	2	50	1.46	37	3.82	97.0	6.18	157.0
B2-JCFX45-2424 <sup>T</sup>	28420-2424	20241960	1 1/2	1 1/8-12	2 3/16	55	1.69	43	4.45	113.0	7.15	181.5

T=Thrust-Wire Nut (See Fitting Identification in Appendix for more information.)

## FITTINGS



## Section 1

B2 Fittings

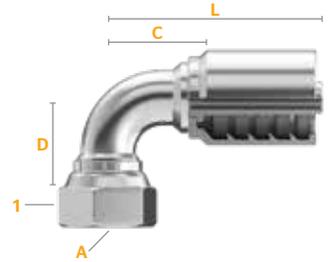
## COMPATIBLE HOSE:

SR1SN	SR2SN	LR16SC	DR16SC	ACP3	SR12	ARC16SC
DR1SN	DR2SN	LCP3	XR16SC	XCP3	ARC12	Hot Oiler
SFS	LR2SN	SR16SC	SCP3	XCP4		

For a detailed list, please refer to your Crimp Specifications Manual.

# JIC 37° Flare (SAE J514)

Female / 90° Elbow / Swivel



Part Number	Product Number	SAP Number	Thread		Hex 1		Elbow Type*	Drop (D)		Cut-Off (C)		Length (L)	
			Hose ID	Size (A)	Wrench Size	in.		mm	in.	mm	in.	mm	in.
B2-JCFX90-0404	14425-0404	20241909	1/4	7/16-20	5/8	16		1.26	32.0	1.34	34.0	2.32	58.9
B2-JCFX90-0404S	14425-0404S	20873072	1/4	7/16-20	5/8	16		1.26	32.0	1.34	34.0	2.32	58.9
B2-JCFX90L-0404	14440-0404	20241985	1/4	7/16-20	5/8	16	LT	1.81	46.0	1.25	31.8	2.23	56.7
B2-JCFX90S-0404	14445-0404	20241929	1/4	7/16-20	5/8	16	ST	0.83	21.0	1.06	27.0	2.04	51.9
B2-JCFX90S-0404S	14445-0404S	20797255	1/4	7/16-20	5/8	16	ST	0.83	21.0	1.06	27.0	2.04	51.9
B2-JCFX90-0405	14425-0405	20241913	1/4	1/2-20	11/16	17		1.18	30.0	1.02	26.0	2.00	50.9
B2-JCFX90L-0405	14440-0405	20241988	1/4	1/2-20	11/16	17	LT	1.77	45.0	1.02	26.0	2.00	50.9
B2-JCFX90S-0405	14445-0405	20241938	1/4	1/2-20	11/16	17	ST	0.93	23.5	1.02	26.0	2.00	50.9
B2-JCFX90-0406	14425-0406	20241896	1/4	9/16-18	3/4	19		1.50	38.0	1.10	28.0	2.08	52.9
B2-JCFX90-0406S	14425-0406S	20873073	1/4	9/16-18	3/4	19		1.50	38.0	1.10	28.0	2.08	52.9
B2-JCFX90L-0406	14440-0406	20241970	1/4	9/16-18	3/4	19	LT	2.13	54.0	1.34	34.0	2.32	58.9
B2-JCFX90S-0406	14445-0406	20241939	1/4	9/16-18	3/4	19	ST	0.91	23.0	1.22	31.0	2.20	55.9
B2-JCFX90-0505	14425-0505	20873172	5/16	1/2-20	11/16	17		1.38	35.0	1.34	34.0	2.32	58.9
B2-JCFX90-0506	14425-0506	20873173	5/16	9/16-18	3/4	19		1.38	35.0	1.30	33.0	2.28	57.9
B2-JCFX90-0604	14425-0604	20293223	3/8	7/16-20	5/8	16		1.26	32.0	1.38	35.0	2.43	61.6
B2-JCFX90-0604S	14425-0604S	20873074	3/8	7/16-20	5/8	16		1.26	32.0	1.38	35.0	2.43	61.6
B2-JCFX90L-0604	14440-0604	20293222	3/8	7/16-20	5/8	16	LT	1.81	46.0	1.22	31.0	2.27	57.6
B2-JCFX90S-0604	14445-0604	20265709	3/8	7/16-20	5/8	16	ST	0.83	21.0	1.10	28.0	2.15	54.6
B2-JCFX90-0606	14425-0606	20241902	3/8	9/16-18	3/4	19		1.38	35.0	1.22	31.0	2.27	57.6
B2-JCFX90-0606S	14425-0606S	20873075	3/8	9/16-18	3/4	19		1.38	35.0	1.22	31.0	2.27	57.6
B2-JCFX90L-0606	14440-0606	20241974	3/8	9/16-18	3/4	19	LT	2.13	54.0	1.69	43.0	2.74	69.6
B2-JCFX90S-0606	14445-0606	20241944	3/8	9/16-18	3/4	19	ST	0.91	23.0	1.65	42.0	2.70	68.7
B2-JCFX90-0608	14425-0608	20241895	3/8	3/4-16	1	25		1.61	41.0	1.54	39.0	2.58	65.6
B2-JCFX90-0608S	14425-0608S	20873076	3/8	3/4-16	1	25		1.61	41.0	1.54	39.0	2.58	65.6
B2-JCFX90L-0608	14440-0608	20241973	3/8	3/4-16	1	25	LT	2.52	64.0	1.85	47.0	2.90	73.6
B2-JCFX90S-0608	14445-0608	20241943	3/8	3/4-16	1	25	ST	1.14	29.0	1.93	49.0	2.98	75.6
B2-JCFX90-0806	14425-0806	20873203	1/2	9/16-18	3/4	19		1.50	38.1	1.50	38.1	2.51	63.8
B2-JCFX90-0808	14425-0808	20241914	1/2	3/4-16	1	25		1.58	40.0	1.46	37.0	2.70	68.7
B2-JCFX90L-0808	14440-0808	20241978	1/2	3/4-16	1	25	LT	2.52	64.0	1.97	50.0	3.22	81.7
B2-JCFX90S-0808	14445-0808	20241936	1/2	3/4-16	1	25	ST	1.14	29.0	1.81	46.0	3.06	77.7
B2-JCFX90-0808S	14425-0808S	20424924	1/2	3/4-16	1	25		1.58	40.0	1.46	37.0	2.70	68.7
B2-JCFX90-0810	14425-0810	20241911	1/2	7/8-14	1 1/8	27		1.85	47.0	1.69	43.0	2.94	74.7
B2-JCFX90L-0810	14440-0810	20241987	1/2	7/8-14	1 1/8	27	LT	2.56	65.0	1.46	37.0	2.70	68.7
B2-JCFX90S-0810	14445-0810	20241946	1/2	7/8-14	1 1/8	27	ST	1.26	32.0	1.81	46.0	3.06	77.7
B2-JCFX90-0812	14425-0812	20241908	1/2	1 1/8-12	1 1/4	32		1.81	46.0	1.46	37.0	2.70	68.7

Continued on the next page.



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## Section 1 B2 Fittings

## FITTINGS



## JIC 37° Flare (Female 90° Elbow) Continued

Part Number	Product Number	SAP Number	Hose ID	Thread Size (A)	Hex 1		Elbow Type*	Drop (D)		Cut-Off (C)		Length (L)	
					Wrench Size	mm		in.	mm	in.	mm	in.	mm
B2-JCFX90-1010	14425-1010	20241932	5/8	7/8-14	1 1/16	27		1.89	48.0	1.93	49.0	3.29	83.5
B2-JCFX90-1010S	14425-1010S	20873077	5/8	7/8-14	1 1/16	27		1.89	48.0	1.93	49.0	3.29	83.5
B2-JCFX90L-1010	14440-1010	20241976	5/8	7/8-14	1 1/16	27	LT	2.56	65.0	1.97	50.0	3.32	84.4
B2-JCFX90S-1010	14445-1010	20241923	5/8	7/8-14	1 1/16	27	ST	1.26	32.0	1.93	49.0	3.29	83.5
B2-JCFX90-1012	14425-1012	20241930	5/8	1 1/16-12	1 1/4	32		2.28	58.0	1.89	48.0	3.25	82.5
B2-JCFX90S-1012	14445-1012	20241945	5/8	1 1/16-12	1 1/4	32	ST	1.89	48.0	1.89	48.0	3.25	82.5
B2-JCFX90S-1208	14445-1208	20265741	3/4	3/4-16	1	25	ST	1.14	29.0	1.65	42.0	3.21	81.5
B2-JCFX90-1210	14425-1210	20293224	3/4	7/8-14	1 1/16	27		1.89	48.0	1.97	50.0	3.52	89.5
B2-JCFX90-1212	14425-1212	20241897	3/4	1 1/16-12	1 1/4	32		2.13	54.0	2.05	52.0	3.60	91.4
B2-JCFX90-1212S	14425-1212S	20873078	3/4	1 1/16-12	1 1/4	32		2.13	54.0	2.05	52.0	3.60	91.4
B2-JCFX90L-1212	14440-1212	20241971	3/4	1 1/16-12	1 1/4	32	LT	3.74	95.0	2.13	54.0	3.68	93.4
B2-JCFX90S-1212	14445-1212	20241940	3/4	1 1/16-12	1 1/4	32	ST	1.81	46.0	2.28	58.0	3.84	97.4
B2-JCFX90S-1212S	14445-1212S	20797257	3/4	1 1/16-12	1 1/4	32	ST	1.81	46.0	2.28	58.0	3.84	97.4
B2-JCFX90S-1214	14445-1214	20241942	3/4	1 3/16-12	1 7/16	36	ST	2.07	52.6	1.93	49.0	3.48	88.5
B2-JCFX90-1216	14425-1216	20241900	3/4	1 1/16-12	1 1/2	38		2.84	72.0	2.09	53.0	3.64	92.5
B2-JCFX90S-1216	14445-1216	20662000	3/4	1 1/16-12	1 1/2	38	ST	2.28	57.8	1.99	50.5	3.54	90.0
B2-JCFX90-1616	14425-1616	20241977	1	1 1/16-12	1 1/2	38		2.81	71.4	2.89	73.4	4.67	118.5
B2-JCFX90-1616S	14425-1616S	20873132	1	1 1/16-12	1 1/2	38		2.81	71.4	2.89	73.4	4.67	118.5
B2-JCFX90L-1616	14440-1616	20241983	1	1 1/16-12	1 1/2	38	LT	4.49	114.0	3.11	79.0	4.89	124.1
B2-JCFX90L-1616S	14440-1616S	20873133	1	1 1/16-12	1 1/2	38	LT	4.49	114.0	3.11	79.0	4.89	124.1
B2-JCFX90S-1616	14445-1616	20241934	1	1 1/16-12	1 1/2	38	ST	2.21	56.0	2.91	74.0	4.69	119.1
B2-JCFX90S-1616S	14445-1616S	20797550	1	1 1/16-12	1 1/2	38	ST	2.21	56.0	2.91	74.0	4.69	119.1
B2-JCFX90-2020S <sup>T</sup>	28425-2020S	20873135	1 1/4	1 1/16-12	2	50		3.07	78.0	3.23	82.0	5.28	134.0
B2-JCFX90-2020 <sup>T</sup>	28425-2020	20241906	1 1/4	1 1/16-12	2	50		3.07	78.0	3.23	82.0	5.28	134.0
B2-JCFX90-2024 <sup>T</sup>	28425-2024	20432492	1 1/4	1 1/16-12	2 3/16	55		3.386	86.1	3.937	100.0	5.938	150.9
B2-JCFX90-2424S <sup>T</sup>	28425-2424S	20933821	1 1/2	1 1/16-12	2 3/16	55		3.62	91.9	3.94	100.0	6.27	159.1
B2-JCFX90-2424 <sup>T</sup>	28425-2424	20241904	1 1/2	1 1/16-12	2 3/16	55		3.62	91.9	3.94	100.0	6.27	159.1
B2-JCFX90-3232S <sup>T</sup>	28425-3232S	20933822	2	2 1/16-12	2 3/4	70		5.51	140.0	5.08	129.0	7.914	200.9
B2-JCFX90-3232 <sup>T</sup>	28425-3232	20657096	2	2 1/16-12	2 3/4	70		5.51	140.0	5.08	129.0	7.91	200.9

S=Stainless Steel T=Thrust-Wire Nut (See Fitting Identification in Appendix for more information) \*Elbow Type: LT=Long Tube ST=Short Tube

## FITTINGS



## Section 1

### B2 Fittings

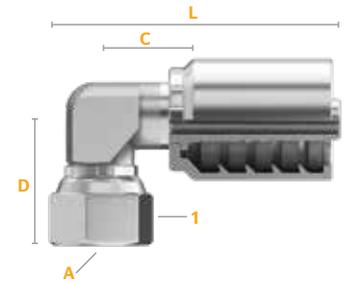
## COMPATIBLE HOSE:

SR1SN	SR2SN	LR16SC	DR16SC	ACP3	SR12	ARC16SC
DR1SN	DR2SN	LCP3	XR16SC	XCP3	ARC12	Hot Oiler
SFS	LR2SN	SR16SC	SCP3	XCP4		

For a detailed list, please refer to your Crimp Specifications Manual.

## JIC 37° Flare (SAE J514)

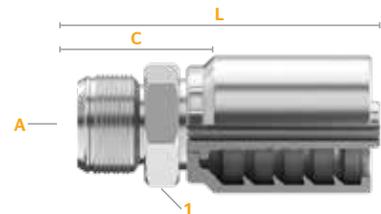
Female / 90° Block Elbow / Swivel



Part Number	Product Number	SAP Number	Hose ID		Hex 1 Wrench Size		Drop (D)		Cut-Off (C)		Length (L)	
			in.	mm	in.	mm	in.	mm	in.	mm	in.	mm
B2-JCFX90B-0404	14447-0404	20840617	1/4	7/16 - 20	5/8	19	1.14	29.0	0.71	18.0	1.69	42.9
B2-JCFX90B-0606	14447-0606	20840880	3/8	9/16 - 18	3/4	25	1.13	28.7	0.87	22.1	1.92	48.8
B2-JCFX90B-0808	14447-0808	20840881	1/2	3/4 - 16	1	16	1.66	42.2	1.1	27.9	2.41	61.2

## JIC 37° Flare (SAE J514)

Male



Part Number	Product Number	SAP Number	Hose ID		Hex 1 Wrench Size		Cut-Off (C)		Length (L)	
			in.	mm	in.	mm	in.	mm	in.	mm
B2-JCM-0404	14450-0404	20241990	1/4	7/16-20	1/2	12	0.99	25.2	1.97	50.1
B2-JCM-0405	14450-0405	20241991	1/4	1/2-20	9/16	14	1.03	26.2	2.01	51.1
B2-JCM-0406	14450-0406	20241995	1/4	9/16-18	11/16	17	1.04	26.4	2.02	51.3
B2-JCM-0506	14450-0506	20242012	5/16	9/16-18	11/16	17	1.04	26.5	2.02	51.4
B2-JCM-0606	14450-0606	20242014	3/8	9/16-18	11/16	17	1.05	26.6	2.10	53.2
B2-JCM-0608	14450-0608	20242007	3/8	3/4-16	3/4	19	1.14	28.9	2.19	55.5
B2-JCM-0610	14450-0610	20242024	3/8	7/8-14	15/16	24	1.33	33.8	2.38	60.5
B2-JCM-0808	14450-0808	20241994	1/2	3/4-16	3/4	19	1.17	29.8	2.42	61.4
B2-JCM-0808S	14450-0808S	20424921	1/2	3/4-16	3/4	19	1.17	29.8	2.42	61.4
B2-JCM-0810	14450-0810	20241993	1/2	7/8-14	15/16	24	1.35	34.4	2.60	66.0
B2-JCM-0812	14450-0812	20241997	1/2	1 1/8 - 12	1 1/16	27	1.46	37.1	2.71	68.7
B2-JCM-1008	14450-1008	20441227	5/8	3/4-16	15/16	24	1.21	30.8	2.57	65.3
B2-JCM-1010	14450-1010	20242010	5/8	7/8-14	15/16	24	1.38	35.0	2.73	69.4
B2-JCM-1012	14450-1012	20242011	5/8	1 1/8 - 12	1 1/8	27	1.46	37.1	2.82	71.5
B2-JCM-1210	14450-1210	20293165	3/4	7/8-14	1 1/8	27	1.38	35.0	2.93	74.4
B2-JCM-1212	14450-1212	20242022	3/4	1 1/8 - 12	1 1/8	27	1.48	37.7	3.04	77.1
B2-JCM-1214	14450-1214	20242020	3/4	1 1/8 - 12	1 1/4	32	1.62	41.0	3.17	80.5
B2-JCM-1216	14450-1216	20242018	3/4	1 1/8 - 12	1 1/8	36	1.66	42.2	3.21	81.6

Continued on the next page.



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**Section 1**  
B2 Fittings

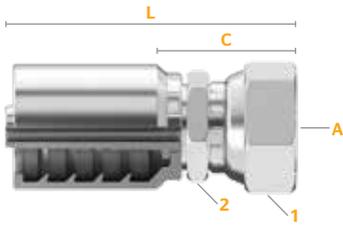
**FITTINGS**



## JIC 37° Flare (Male) Continued

Part Number	Product Number	SAP Number	Hose ID	Thread Size (A)	Hex 1		Cut-Off (C)		Length (L)	
					Wrench Size	mm	in.	mm	in.	mm
B2-JCM-1616	14450-1616	20242002	1	1 1/16-12	1 1/16	36	1.67	42.4	3.45	87.5
B2-JCM-1620	14450-1620	20242016	1	1 1/8-12	1 1/8	46	1.84	46.8	3.62	91.9
B2-JCM-2020	28450-2020	20241999	1 1/4	1 1/8-12	1 1/8	46	1.91	48.5	3.96	100.5
B2-JCM-2020S	28450-2020S	20933823	1 1/4	1 1/8-12	1 1/8	46	1.91	48.6	3.96	100.5
B2-JCM-2024	28450-2024	20241998	1 1/4	1 7/8-12	2	50	2.08	52.8	4.12	104.7
B2-JCM-2424	28450-2424	20242027	1 1/2	1 7/8-12	2	50	2.08	52.7	4.40	111.8
B2-JCM-2424S	28450-2424S	20933824	1 1/2	1 7/8-12	2	50	2.08	52.7	4.40	111.8
B2-JCM-3232	28450-3232	20242023	2	2 1/2-12	2 3/16	65	2.45	62.1	5.28	134.1
B2-JCM-3232S	28450-3232S	20933825	2	2 1/2-12	2 3/16	65	2.45	62.1	5.28	134.1

S=Stainless Steel (See Fitting Identification in Appendix for more information.)



## SAE 45° J512 Flare

Female / Swivel

Part Number	Product Number	SAP Number	Hose ID	Thread Size (A)	Hex 1		Hex 2		Cut-Off (C)		Length (L)	
					Wrench Size	mm	Wrench Size	mm	in.	mm	in.	mm
B2-SFFX-0606	14775-0606	20241706	3/8	5/8-18	7/8	22	3/4	19	1.32	33.6	2.371	60.2
B2-SFFX-0608	14775-0608	20293245	3/8	3/4-16	1	25	3/4	19	1.37	34.9	2.423	61.5
B2-SFFX-0808	14775-0808	20662003	1/2	3/4-16	1 1/16	27	3/4	19	1.3	33.6	2.4	60.2
B2-SFFX-0810	14775-0810	20293246	1/2	7/8-14	1 1/16	27	7/8	22	1.60	40.6	2.846	72.3
B2-SFFX-1212	14775-1212	20241707	3/4	1 1/16-14	1 1/4	32	1 1/16	27	1.74	44.2	3.29	83.6

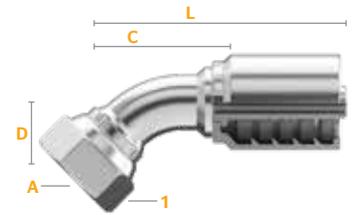
## COMPATIBLE HOSE:

SR1SN	SR2SN	LR16SC	DR16SC	ACP3	SR12	ARC16SC
DR1SN	DR2SN	LCP3	XR16SC	XCP3	ARC12	Hot Oiler
SFS	LR2SN	SR16SC	SCP3	XCP4		

For a detailed list, please refer to your Crimp Specifications Manual.

## SAE 45° J512 Flare

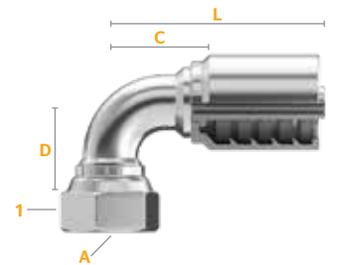
Female / 45° Elbow / Swivel



Part Number	Product Number	SAP Number	Hose ID	Thread Size (A)	Hex 1 Wrench Size		Drop (D)		Cut-Off (C)		Length (L)	
			in.		in.	mm	in.	mm	in.	mm	in.	mm
B2-SFFX45-0606	14777-0606	20293247	3/8	5/8-18	7/8	22	0.47	12.0	1.81	45.99	2.86	72.64
B2-SFFX45-0808	14777-0808	20293248	1/2	3/4-16	1	25	0.59	15.0	2.05	51.99	3.294	83.67
B2-SFFX45-1212	14777-1212	20441271	3/4	1 1/8-14	1 1/4	32	0.83	21.0	2.64	67.0	4.191	106.5

## SAE 45° J512 Flare

Female / 90° Elbow / Swivel



Part Number	Product Number	SAP Number	Hose ID	Thread Size (A)	Hex 1 Wrench Size		Drop (D)		Cut-Off (C)		Length (L)	
			in.		in.	mm	in.	mm	in.	mm	in.	mm
B2-SFFX90-0606	14780-0606	20293249	3/8	5/8-18	7/8	22	0.95	24.0	1.654	42.0	2.70	68.7
B2-SFFX90L-0606	14781-0606	20293250	3/8	5/8-18	7/8	22	2.19	55.5	1.693	43.0	2.74	69.6
B2-SFFX90S-0808	14783-0808	20293251	1/2	3/4-16	1	25	1.14	29.0	1.811	46.0	3.06	77.7
B2-SFFX90-1212	14780-1212	20441304	3/4	1 1/8-14	1 1/4	32	1.85	47.0	1.69	43.0	2.94	74.7

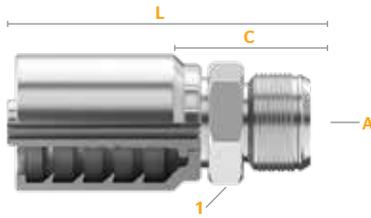


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**Section 1**  
B2 Fittings

**FITTINGS**



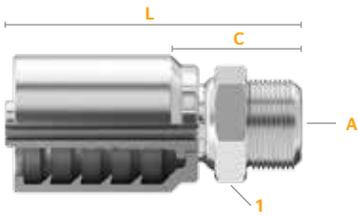


## SAE 45° J512 Flare

Male



Part Number	Product Number	SAP Number	Hose ID		Hex 1 Wrench Size		Cut-Off (C)		Length (L)		
			in.	mm	in.	mm	in.	mm	in.	mm	
B2-SFM-0606	14785-0606	20293213	3/8	9.5	5/8-18	15.9	16	1.12	28.5	2.17	55.2
B2-SFM-0608	14785-0608	20293214	3/8	9.5	3/4-16	19.1	19	1.23	31.2	2.28	57.9
B2-SFM-0808	14785-0808	20293215	1/2	12.7	3/4-16	19.1	19	1.27	32.1	2.51	63.8
B2-SFM-1212	14785-1212	20293216	3/4	19.1	1 1/8-14	27.1	27	1.62	41.1	3.17	80.6



## SAE 45° Inverted Flare

Male / Swivel



Part Number	Product Number	SAP Number	Hose ID		Hex 1 Wrench Size		Cut-Off (C)		Length (L)		
			in.	mm	in.	mm	in.	mm	in.	mm	
B2-SIMX-0403	14800-0403	20293166	1/4	6.4	3/8-24	12.7	12	1.68	42.7	2.663	67.6
B2-SIMX-0404	14800-0404	20293167	1/4	6.4	7/16-24	19.1	12	1.70	43.1	2.675	67.9
B2-SIMX-0405	14800-0405	20293168	1/4	6.4	1/2-20	25.4	14	1.83	46.6	2.814	71.5
B2-SIMX-0605	14800-0605	20293169	3/8	9.5	1/2-20	25.4	14	1.84	46.8	2.89	73.4
B2-SIMX-0606	14800-0606	20293170	3/8	9.5	5/8-18	22.2	17	1.89	48.0	2.94	74.7
B2-SIMX-0607	14800-0607	20293171	3/8	9.5	11/16-18	28.6	19	1.92	48.7	2.965	75.3
B2-SIMX-0808	14800-0808	20293172	1/2	12.7	3/4-18	25.4	19	2.00	50.8	3.248	82.5
B2-SIMX-0810	14800-0810	20293173	1/2	12.7	7/8-18	22.2	24	2.07	52.7	3.321	84.4

## FITTINGS



### Section 1

B2 Fittings

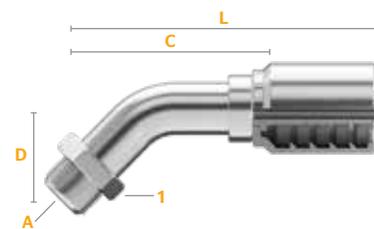
#### COMPATIBLE HOSE:

SR1SN SR2SN LR16SC DR16SC ACP3 SR12 ARC16SC  
 DR1SN DR2SN LCP3 XR16SC XCP3 ARC12 Hot Oiler  
 SFS LR2SN SR16SC SCP3 XCP4

For a detailed list, please refer to your Crimp Specifications Manual.

## SAE 45° Inverted Flare

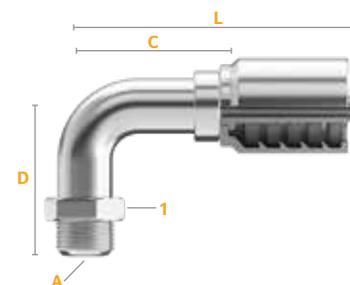
Male / 45° Elbow / Swivel



Part Number	Product Number	SAP Number	Hose ID		Thread Size (A)		Hex 1 Wrench Size		Drop (D)		Cut-Off (C)		Length (L)	
			in.	mm	in.	mm	in.	mm	in.	mm	in.	mm		
B2-SIMX45-0403	14810-0403	20293174	1/4		3/8-24		1/2	12	1.24	31.49	2.68	68.1	3.66	93.0
B2-SIMX45-0404	14810-0404	20293175	1/4		7/16-24		1/2	12	1.24	31.49	2.68	68.1	3.66	93.0
B2-SIMX45-0604	14810-0604	20293382	3/8		7/16-24		1/2	12	1.57	39.87	2.95	74.9	4.00	101.6
B2-SIMX45-0605	14810-0605	20293177	3/8		1/2-20		9/16	14	1.50	38.10	2.99	75.9	4.04	102.6
B2-SIMX45-0606	14810-0606	20293178	3/8		5/8-18		11/16	17	1.50	38.10	2.99	75.9	4.04	102.6
B2-SIMX45-0607	14810-0607	20293179	3/8		11/16-18		3/4	19	1.50	38.10	2.99	75.9	4.04	102.6

## SAE 45° Inverted Flare

Male / 90° Elbow / Swivel



Part Number	Product Number	SAP Number	Hose ID		Thread Size (A)		Hex 1 Wrench Size		Drop (D)		Cut-Off (C)		Length (L)	
			in.	mm	in.	mm	in.	mm	in.	mm	in.	mm		
B2-SIMX90-0403	14815-0403	20293180	1/4		3/8-24		1/2	12	1.97	50.0	1.38	35.1	2.36	59.9
B2-SIMX90-0404	14815-0404	20293181	1/4		7/16-24		1/2	12	2.05	52.1	1.30	33.0	2.28	57.9
B2-SIMX90-0405	14815-0405	20293182	1/4		1/2-20		9/16	14	1.96	49.8	1.52	38.6	2.50	63.5
B2-SIMX90-0604	14815-0604	20293183	3/8		7/16-24		1/2	12	2.44	62.0	1.34	34.0	2.39	60.7
B2-SIMX90-0605	14815-0605	20293184	3/8		1/2-20		9/16	14	2.44	62.0	1.38	35.1	2.43	61.7
B2-SIMX90-0606	14815-0606	20293185	3/8		5/8-18		11/16	17	2.44	62.0	1.38	35.1	2.43	61.7
B2-SIMX90-0607	14815-0607	20293186	3/8		11/16-18		3/4	19	2.44	62.0	1.38	35.1	2.43	61.7
B2-SIMX90-0808	14815-0808	20293187	1/2		3/4-18		3/4	19	2.32	58.9	2.13	54.1	3.38	85.8

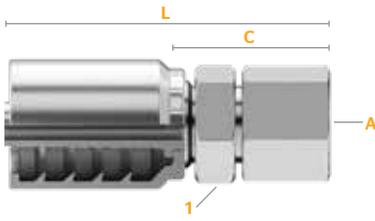


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**Section 1**  
B2 Fittings

**FITTINGS**

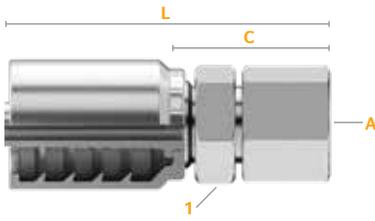




# NPTF

Female

Part Number	Product Number	SAP Number								
			Hose ID	Thread Size (A)	Hex 1 Wrench Size		Cut-Off (C)		Length (L)	
			in.		in.	mm	in.	mm	in.	mm
B2-NPF-0402	14600-0402	20293225	1/4	1/8-27	9/16	14	0.88	22.4	1.86	47.3
B2-NPF-0404	14600-0404	20242105	1/4	1/4-18	3/4	19	1.09	27.6	2.07	52.5
B2-NPF-0604	14600-0604	20293226	3/8	1/4-18	3/4	19	1.09	27.8	2.14	54.4
B2-NPF-0606	14600-0606	20242103	3/8	3/8-18	7/8	22	1.15	29.2	2.19	55.8
B2-NPF-0608	14600-0608	20662001	3/8	1/2-14	1	25	1.38	35.0	2.43	61.7
B2-NPF-0806	14600-0806	20662002	1/2	3/8-18	7/8	22	1.18	30.0	2.42	61.5
B2-NPF-0808	14600-0808	20242106	1/2	1/2-14	1	25	1.40	35.6	2.65	67.2
B2-NPF-1212	14600-1212	20242104	3/4	3/4-14	1 1/4	32	1.51	38.4	3.06	77.8



# NPTF

Female / Swivel

Part Number	Product Number	SAP Number								
			Hose ID	Thread Size (A)	Hex 1 Wrench Size		Cut-Off (C)		Length (L)	
			in.		in.	mm	in.	mm	in.	mm
B2-NPFX-0606	14605-0606	20293227	3/8	3/8-18	7/8	22	2.06	52.4	3.11	79.0
B2-NPFX-1616	14605-1616	20293228	1	1-11 1/2	1 1/2	38	2.83	71.8	4.60	116.9

## FITTINGS



### Section 1 B2 Fittings

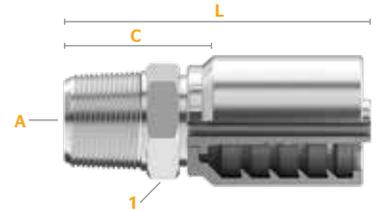
**COMPATIBLE HOSE:**

- |       |       |        |        |      |       |           |
|-------|-------|--------|--------|------|-------|-----------|
| SR1SN | SR2SN | LR16SC | DR16SC | ACP3 | SR12  | ARC16SC   |
| DR1SN | DR2SN | LCP3   | XR16SC | XCP3 | ARC12 | Hot Oiler |
| SFS   | LR2SN | SR16SC | SCP3   | XCP4 |       |           |

*For a detailed list, please refer to your Crimp Specifications Manual.*

**NPTF**

Male



Part Number	Product Number	SAP Number	Hose ID	Thread Size (A)	Hex 1 Wrench Size		Cut-Off (C)		Length (L)	
			in.		in.	mm	in.	mm	in.	mm
B2-NPM-0402	14615-0402	20242110	1/4	1/8-27	9/16	14	0.84	21.2	1.82	46.1
B2-NPM-0404	14615-0404	20242111	1/4	1/4-18	11/16	17	1.06	27.0	2.04	51.9
B2-NPM-0404S	14615-0404S	20286649	1/4	1/4-18	11/16	17	1.06	27.0	2.04	51.9
B2-NPM-0406	14615-0406	20242109	1/4	3/8-18	3/4	19	1.09	27.7	2.07	52.6
B2-NPM-0406S	14615-0406S	20873079	1/4	3/8-18	3/4	19	1.09	27.7	2.07	52.6
B2-NPM-0408	14615-0408	20242115	1/4	1/2-14	7/8	22	1.27	32.2	2.25	57.1
B2-NPM-0604	14615-0604	20242067	3/8	1/4-18	11/16	17	1.07	27.2	2.12	53.8
B2-NPM-0604S	14615-0604S	20873130	3/8	1/4-18	11/16	17	1.07	27.2	2.12	53.8
B2-NPM-0606	14615-0606	20242069	3/8	3/8-18	3/4	19	1.10	27.9	2.15	54.6
B2-NPM-0606S	14615-0606S	20286830	3/8	3/8-18	3/4	19	1.10	27.9	2.15	54.6
B2-NPM-0608	14615-0608	20242079	3/8	1/2-14	7/8	22	1.27	32.4	2.32	59.0
B2-NPM-0608S	14615-0608S	20873131	3/8	1/2-14	7/8	22	1.27	32.4	2.32	59.0
B2-NPM-0806	14615-0806	20242113	1/2	3/8-18	3/4	19	1.12	28.4	2.37	60.1
B2-NPM-0806S	14615-0806S	20424922	1/2	3/8-18	3/4		1.12	28.4	2.37	60.1
B2-NPM-0808	14615-0808	20242093	1/2	1/2-14	7/8	22	1.30	33.0	2.55	64.7
B2-NPM-0808S	14615-0808S	20286831	1/2	1/2-14	7/8	22	1.30	33.0	2.55	64.7
B2-NPM-0812	14615-0812	20242116	1/2	3/4-14	1 1/8	27	1.34	34.1	2.59	65.8
B2-NPM-1008	14615-1008	20242071	5/8	1/2-14	15/16	24	1.31	33.3	2.67	67.7
B2-NPM-1008S	14615-1008S	20286832	5/8	1/2-14	15/16	24	1.31	33.3	2.67	67.7
B2-NPM-1012	14615-1012	20242066	5/8	3/4-14	1 1/8	27	1.35	34.4	2.71	68.9
B2-NPM-1208	14615-1208	20242078	3/4	1/2-14	1 1/8	27	1.32	33.5	2.87	73.0
B2-NPM-1212	14615-1212	20242076	3/4	3/4-14	1 1/8	27	1.36	34.6	2.92	74.1
B2-NPM-1212S	14615-1212S	20286833	3/4	3/4-14	1 1/8	27	1.36	34.6	2.92	74.1
B2-NPM-1216	14615-1216	20242077	3/4	1-11 1/2	1 1/8	36	1.72	43.7	3.27	83.1
B2-NPM-1612	14615-1612	20242107	1	3/4-14	1 1/8	36	1.56	39.5	3.33	84.6
B2-NPM-1616	14615-1616	20242099	1	1-11 1/2	1 1/8	36	1.73	43.9	3.51	89.0
B2-NPM-1616S	14615-1616S	20286834	1	1-11 1/2	1 1/8	36	1.73	43.9	3.51	89.0
B2-NPM-1620	14615-1620	20242092	1	1 1/4-11 1/2	1 1/8	46	1.88	47.8	3.66	92.8
B2-NPM-2020	28615-2020	20242094	1 1/4	1 1/4-11 1/2	1 1/8	46	1.95	49.5	4.00	101.5
B2-NPM-2020S	28615-2020S	20424930	1 1/4	1 1/4-11 1/2	1 1/8	46	1.95	49.5	4.00	101.5
B2-NPM-2024	28615-2024	20242095	1 1/4	1 1/2-11 1/2	2	50	2.01	51.0	4.06	103.0
B2-NPM-2424	28615-2424	20242102	1 1/2	1 1/2-11 1/2	2	50	2.01	51.0	4.34	110.1
B2-NPM-2424S	28615-2424S	20424931	1 1/2	1 1/2-11 1/2	2	50	2.01	51.0	4.34	110.1
B2-NPM-3232	28615-3232	20242108	2	2-11 1/2	2 1/8	65	2.14	54.5	4.98	126.4
B2-NPM-3232S	28615-3232S	20933826	2	2-11 1/2	2 1/8	65	2.14	54.5	4.98	126.4

S=Stainless Steel (See Fitting Identification in Appendix for more information.)

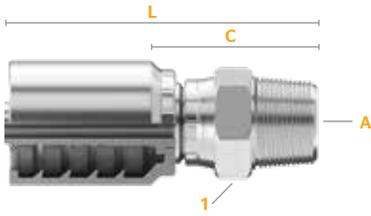


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**Section 1**  
B2 Fittings

**FITTINGS**





## NPTF

Male / Swivel

Part Number	Product Number	SAP Number								
			Hose ID	Thread Size (A)	Hex 1 Wrench Size	Cut-Off (C)		Length (L)		
			in.		in.	mm	in.	mm	in.	mm
B2-NPMX-0402	14645-0402	20435592	1/4	1/8-27	5/8	16	1.51	38.4	2.49	63.1
B2-NPMX-0404	14645-0404	20242087	1/4	1/4-18	11/16	17	1.49	37.8	2.47	62.7
B2-NPMX-0404S	14645-0404S	20838415	1/4	1/4-18	11/16	17	1.49	37.8	2.47	62.7
B2-NPMX-0406	14645-0406	20242086	1/4	3/8-18	7/8	22	1.57	39.9	2.55	64.8
B2-NPMX-0604	14645-0604	20242082	3/8	1/4-18	11/16	17	1.58	40.1	2.63	66.8
B2-NPMX-0606	14645-0606	20242081	3/8	3/8-18	7/8	22	1.49	37.8	2.54	64.4
B2-NPMX-0606S	14645-0606S	20838416	3/8	3/8-18	7/8	22	1.49	37.8	2.54	64.4
B2-NPMX-0608	14645-0608	20242083	3/8	1/2-14	1	25	1.71	43.5	2.76	70.2
B2-NPMX-0804	14645-0804	20293188	1/2	1/4-18	11/16	17	1.60	40.6	2.85	72.3
B2-NPMX-0806	14645-0806	20242088	1/2	3/8-18	7/8	22	1.51	38.5	2.76	70.1
B2-NPMX-0808	14645-0808	20242074	1/2	1/2-14	1	25	1.66	42.3	2.91	73.9
B2-NPMX-0808S	14645-0808S	20838417	1/2	1/2-14	1	25	1.66	42.3	2.91	73.9
B2-NPMX-1208	14645-1208	20923064	3/4	1/2-14	1	25	1.73	43.9	3.283	83.3
B2-NPMX-1212	14645-1212	20242091	3/4	3/4-14	1 1/4	32	1.97	50.1	3.53	89.6
B2-NPMX-1212S	14645-1212S	20838418	3/4	3/4-14	1 1/4	32	1.97	50.1	3.53	89.6
B2-NPMX-1616	14645-1616	20242085	1	1-11 1/2	1 3/8	41	2.30	58.4	4.07	103.5
B2-NPMX-1616S	14645-1616S	20838419	1	1-11 1/2	1 3/8	41	2.30	58.4	4.07	103.5

## FITTINGS



### Section 1 B2 Fittings

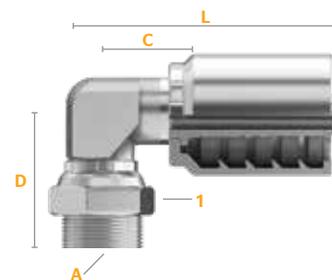
#### COMPATIBLE HOSE:

SR1SN	SR2SN	LR16SC	DR16SC	ACP3	SR12	ARC16SC
DR1SN	DR2SN	LCP3	XR16SC	XCP3	ARC12	Hot Oiler
SFS	LR2SN	SR16SC	SCP3	XCP4		

For a detailed list, please refer to your Crimp Specifications Manual.

# NPTF

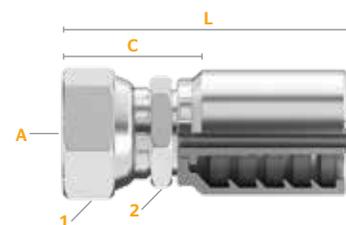
Male / 90° Block Elbow / Swivel



Part Number	Product Number	SAP Number										
			Hose ID	Thread Size (A)	Hex 1 Wrench Size		Drop (D)		Cut-Off (C)		Length (L)	
			in.		in.	mm	in.	mm	in.	mm	in.	mm
B2-NPMX90B-0404	14650-0404	20293189	1/4	1/4-18	11/16	17	1.69	42.9	0.71	18.1	1.69	43.0
B2-NPMX90B-0604	14650-0604	20293190	3/8	1/4-18	11/16	17	1.63	41.5	0.92	23.3	1.97	50.0
B2-NPMX90B-0606	14650-0606	20293191	3/8	3/8-18	7/8	22	1.62	41.2	0.92	23.3	1.97	50.0
B2-NPMX90B-0806	14650-0806	20441228	1/2	3/8-18	7/8	22	2.00	50.7	1.16	29.4	2.41	61.1
B2-NPMX90B-0808	14650-0808	20293192	1/2	1/2-14	1	25	2.15	54.6	1.16	29.4	2.41	61.1
B2-NPMX90B-1212	14650-1212	20293193	3/4	3/4-14	1 1/4	32	2.58	65.6	1.24	31.5	2.80	71.0

# NPSM

Female / Swivel



Part Number	Product Number	SAP Number										
			Hose ID	Thread Size (A)	Hex 1 Wrench Size		Hex 2 Wrench Size		Cut-Off (C)		Length (L)	
			in.		in.	mm	in.	mm	in.	mm	in.	mm
B2-NSFX-0404	14655-0404	20242064	1/4	1/4-18	3/4	19	11/16	17	1.19	30.2	2.17	55.1
B2-NSFX-0606	14655-0606	20242065	3/8	3/8-18	7/8	22	3/4	19	1.24	31.4	2.29	58.0
B2-NSFX-0806	14655-0806	20873204	1/2	3/8-18	7/8	22	7/8	22	1.271	32.3	2.518	64.0
B2-NSFX-0808	14655-0808	20242063	1/2	1/2-14	1 1/16	27	7/8	22	1.35	34.3	2.60	66.0
B2-NSFX-0808S	14655-0808S	20424926	1/2	1/2-14	1 1/16	27	7/8	22	1.35	34.3	2.60	66.0
B2-NSFX-1212	14655-1212	20293252	3/4	3/4-14	1 1/4	32	1 3/16	30	1.46	37.0	3.01	76.4
B2-NSFX-1212S	14655-1212S	20955328	3/4	3/4-14	1 1/4	32	1 3/16	30	1.46	37.0	3.01	76.4
B2-NSFX-1616	14655-1616	20293253	1	1-11 1/2	1 1/2	38	1 1/16	36	1.76	44.7	3.54	89.8
B2-NSFX-1616S	14655-1616S	20955329	1	1-11 1/2	1 1/2	38	1 1/16	36	1.76	44.7	3.54	89.8
B2-NSFX-2020	28655-2020	20293263	1 1/4	1 1/4-11 1/2	2	50	1 3/8	41	2.04	51.7	4.08	103.7

S=Stainless Steel (See Fitting Identification in Appendix for more information.)

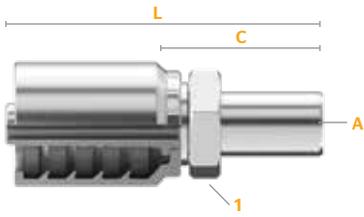


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**Section 1**  
B2 Fittings

**FITTINGS**



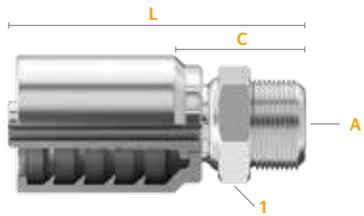


## GTF

Female



Part Number	Product Number	SAP Number	Hose ID	Thread Size (A)	Hex 1 Wrench Size	Cut-Off (C)		Length (L)		
			in.		in.	mm	in.	mm	in.	mm
B2-GTF-0404	14370-0404	20293254	1/4	0511-27	3/4	19	0.92	23.3	1.89	48.2



## SAE J514 Flareless Tube Fittings

Male



Part Number	Product Number	SAP Number	Hose ID	Thread Size (A)	Hex 1 Wrench Size	Cut-Off (C)		Length (L)		
			in.		in.	mm	in.	mm	in.	mm
B2-FTM-0404	14360-0404	20286101	1/4	7/16-20	1/2	12	0.88	22.2	1.86	47.1
B2-FTM-0405	14360-0405	20294798	1/4	1/2-20	9/16	14	0.90	22.9	1.88	47.8
B2-FTM-0605	14360-0605	20294799	3/8	1/2-20	5/8	16	0.96	24.3	2.01	51.0
B2-FTM-0606	14360-0606	20286102	3/8	9/16-18	5/8	16	0.97	24.7	2.02	51.4
B2-FTM-0608	14360-0608	20661908	3/8	3/4-16	7/8	22	0.97	24.7	2.02	51.4
B2-FTM-0808	14360-0808	20286103	1/2	3/4-16	7/8	22	1.11	28.2	2.36	59.9
B2-FTM-0810	14360-0810	20294860	1/2	7/8-14	15/16	24	1.21	30.7	2.46	62.4
B2-FTM-1212	14360-1212	20294861	3/4	1 1/6-12	1 3/8	30	1.30	33.1	2.85	72.5
B2-FTM-1616	14360-1616	20294862	1	1 3/8-12	1 3/8	36	1.48	37.7	3.26	82.8

All fittings come with nut and sleeve.

# FITTINGS



## Section 1

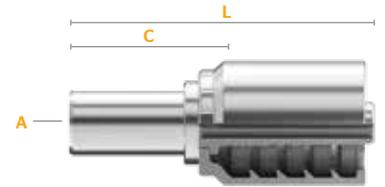
B2 Fittings

### COMPATIBLE HOSE:

SR1SN	SR2SN	LR16SC	DR16SC	ACP3	SR12	ARC16SC
DR1SN	DR2SN	LCP3	XR16SC	XCP3	ARC12	Hot Oiler
SFS	LR2SN	SR16SC	SCP3	XCP4		

For a detailed list, please refer to your Crimp Specifications Manual.

## Standpipe

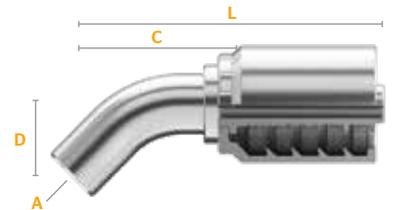


Part Number	Product Number	SAP Number						
			Hose ID	Tube OD (A)	Cut-Off (C)		Length (L)	
			in.	mm	in.	mm	in.	mm
B2-SP-0406	14825-0406	20441305	1/4	6	1.11	28.3	2.09	53.2
B2-SP-0408	14825-0408	20241714	1/4	8	1.19	30.3	2.17	55.2
B2-SP-0410	14825-0410	20241710	1/4	10	1.27	32.3	2.25	57.2
B2-SP-0610	14825-0610	20241712	3/8	10	1.19	30.2	2.24	56.9
B2-SP-0612	14825-0612	20241711	3/8	12	1.15	29.2	2.20	55.9
B2-SP-0815	14825-0815	20241717	1/2	15	1.26	32.0	2.51	63.7
B2-SP-0816	14825-0816	20241716	1/2	16	1.46	37.1	2.71	68.8
B2-SP-1018	14825-1018	20241715	5/8	18	1.35	34.2	2.71	68.7
B2-SP-1020	14825-1020	20241720	5/8	20	1.73	44.0	3.09	78.5
B2-SP-1222	14825-1222	20241713	3/4	22	1.44	36.6	2.99	76.0
B2-SP-1628	14825-1628	20241718	1	28	1.59	40.4	3.37	85.5

All fittings come with nut and sleeve.

## Standpipe

45° Elbow



Part Number	Product Number	SAP Number								
			Hose ID	Tube OD (A)	Drop (D)		Cut-Off (C)		Length (L)	
			in.	mm	in.	mm	in.	mm	in.	mm
B2-SP45-0408	14830-0408	20241719	1/4	8	0.91	23.1	1.69	42.9	2.67	67.8

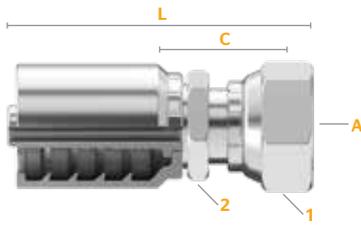


Download the **MyCrimp App** for more information.

### Section 1 B2 Fittings

## FITTINGS





## O-Ring Face Seal (SAE J1453 ORS/ORFS)

Female / Swivel

Part Number	Product Number	SAP Number										
			Hose ID	Thread Size (A)	Hex 1 Wrench Size		Hex 2 Wrench Size		Cut-Off (C)		Length (L)	
			in.		in.	mm	in.	mm	in.	mm	in.	mm
B2-OFFX-0404	14700-0404	20242188	1/4	9/16-18	11/16	17	9/16	14	1.07	27.3	2.05	52.2
B2-OFFX-0406	14700-0406	20242141	1/4	11/16-16	7/8	22	11/16	17	1.19	30.1	2.17	55.0
B2-OFFX-0408	14700-0408	20242148	1/4	13/16-16	15/16	24	7/8	22	1.39	35.4	2.37	60.3
B2-OFFX-0506	14700-0506	20959266	5/16	11/16-16	7/8	22	11/16	17	1.189	30.1	2.169	55.0
B2-OFFX-0604	14700-0604	20293218	3/8	9/16-18	11/16	17	11/16	17	1.12	28.4	2.17	55.1
B2-OFFX-0606	14700-0606	20242196	3/8	11/16-16	7/8	22	11/16	17	1.19	30.3	2.24	56.9
B2-OFFX-0608	14700-0608	20242198	3/8	13/16-16	15/16	24	7/8	22	1.40	35.6	2.45	62.2
B2-OFFX-0806	14700-0806	20242143	1/2	11/16-16	7/8	22	3/4	19	1.26	32.0	2.51	63.7
B2-OFFX-0808	14700-0808	20242149	1/2	13/16-16	15/16	24	7/8	22	1.42	36.1	2.67	67.8
B2-OFFX-0810	14700-0810	20242144	1/2	1-14	1 3/16	30	15/16	24	1.56	39.5	2.80	71.2
B2-OFFX-0812	14700-0812	20242136	1/2	1 3/16-12	1 1/16	36	1 3/16	30	1.66	42.1	2.90	73.8
B2-OFFX-1010	14700-1010	20242178	5/8	1-14	1 3/16	30	15/16	24	1.56	39.6	2.92	74.1
B2-OFFX-1012	14700-1012	20242199	5/8	1 3/16-12	1 1/16	36	1 3/16	30	1.66	42.1	3.01	76.6
B2-OFFX-1210	14700-1210	20242201	3/4	1-14	1 3/16	30	1 1/16	27	1.58	40.1	3.13	79.5
B2-OFFX-1212	14700-1212	20242189	3/4	1 3/16-12	1 1/16	36	1 3/16	30	1.67	42.3	3.22	81.8
B2-OFFX-1216	14700-1216	20242169	3/4	1 7/16-12	1 1/2	41	1 3/16	36	1.92	48.6	3.47	88.1
B2-OFFX-1612	14700-1612	20242159	1	1 3/16-12	1 1/16	36	1 1/4	32	1.79	45.3	3.56	90.4
B2-OFFX-1616	14700-1616	20242142	1	1 7/16-12	1 5/8	41	1 3/16	36	1.95	49.4	3.72	94.5
B2-OFFX-1620	14700-1620	20242164	1	1 9/16-12	2	50	1 3/8	41	1.98	50.3	3.76	95.4
B2-OFFX-2020	28700-2020	20242137	1 1/4	1 9/16-12	2	50	1 3/8	41	2.08	52.9	4.13	104.9
B2-OFFX-2424	28700-2424	20242138	1 1/2	2-12	2 3/8	60	2	50	2.23	56.7	4.56	115.8

### FITTINGS



### Section 1 B2 Fittings

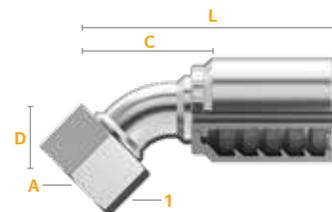
**COMPATIBLE HOSE:**

- |       |       |        |        |      |       |           |
|-------|-------|--------|--------|------|-------|-----------|
| SR1SN | SR2SN | LR16SC | DR16SC | ACP3 | SR12  | ARC16SC   |
| DR1SN | DR2SN | LCP3   | XR16SC | XCP3 | ARC12 | Hot Oiler |
| SFS   | LR2SN | SR16SC | SCP3   | XCP4 |       |           |

For a detailed list, please refer to your Crimp Specifications Manual.

# O-Ring Face Seal (SAE J1453 ORS/ORFS)

Female / 45° Elbow / Swivel



Part Number	Product Number	SAP Number										
			Hose ID	Thread Size (A)	Hex 1 Wrench Size	Drop (D)		Cut-Off (C)		Length (L)		
			in.		in.	mm	in.	mm	in.	mm	in.	mm
B2-OFFX45-0404	14710-0404	20242231	1/4	9/16-18	11/16	17	0.43	10.9	1.61	41.0	2.59	65.9
B2-OFFX45-0406	14710-0406	20242230	1/4	11/16-16	7/8	22	0.43	10.9	1.81	46.0	2.79	70.9
B2-OFFX45-0606	14710-0606	20242204	3/8	11/16-16	7/8	22	0.47	11.9	1.85	47.0	2.90	73.6
B2-OFFX45-0608	14710-0608	20242206	3/8	13/16-16	15/16	24	0.59	15.0	2.01	51.0	3.06	77.6
B2-OFFX45-0808 <sup>C</sup>	14710-0808	20242228	1/2	13/16-16	15/16	24	0.63	16.0	1.85	47.0	3.10	78.7
B2-OFFX45-0810	14710-0810	20242225	1/2	1-14	1 3/16	30	0.65	16.5	1.97	50.0	3.22	81.7
B2-OFFX45-1010	14710-1010	20242217	5/8	1-14	1 3/16	30	0.67	17.0	2.28	58.0	3.64	92.5
B2-OFFX45-1012	14710-1012	20242207	5/8	1 3/16-12	1 1/16	36	0.83	21.1	2.48	63.0	3.84	97.5
B2-OFFX45-1210	14710-1210	20293219	3/4	1-14	1 3/16	30	0.79	20.1	2.09	53.1	3.64	92.5
B2-OFFX45-1212	14710-1212	20242232	3/4	1 3/16-12	1 1/16	36	0.83	21.0	2.48	63.0	4.03	102.4
B2-OFFX45-1216	14710-1216	20242208	3/4	1 3/16-12	1 5/16	41	0.94	23.9	2.80	71.1	4.35	110.6
B2-OFFX45-1616	14710-1616	20242219	1	1 1/16-12	1 5/16	41	1.02	26.0	3.23	81.9	5.00	127.1
B2-OFFX45-2020	28710-2020	20242223	1 1/4	1 1/16-12	2	50	1.02	25.9	3.82	97.0	5.87	149.0
B2-OFFX45-2024	28710-2024	20242224	1 1/4	2-12	2 3/16	60	1.10	27.9	3.98	101.1	6.03	153.1
B2-OFFX45-2424	28710-2424	20242222	1 1/2	2-12	2 3/16	60	1.10	27.9	4.13	104.9	6.46	164.0

C=Crimp Nut (See Fitting Identification in Appendix for more information.)

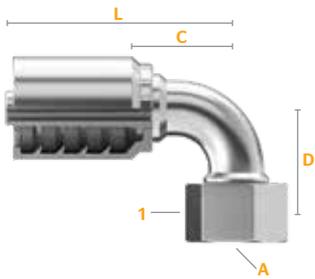


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**Section 1**  
B2 Fittings

**FITTINGS**





## O-Ring Face Seal (SAE J1453 ORS/ORFS)

Female / 90° Elbow / Swivel



Part Number	Product Number	SAP Number	Hose ID	Thread Size (A)	Hex 1 Wrench Size	Elbow Type*	Drop (D)	Cut-Off (C)	Length (L)				
			in.	in.	in.	mm	in.	mm	in.	mm			
B2-OFFX90-0404	14715-0404	20242236	1/4	9/16-18	11/16	17	1.26	32.0	1.18	30.0	2.16	54.9	
B2-OFFX90L-0404	14720-0404	20242254	1/4	9/16-18	11/16	17	LT	1.81	46.0	1.30	33.0	2.28	57.9
B2-OFFX90S-0404	14725-0404	20242152	1/4	9/16-18	11/16	17	ST	0.83	21.0	1.10	28.0	2.08	52.9
B2-OFFX90-0406	14715-0406	20242243	1/4	11/16-16	7/8	22		1.50	38.0	1.46	37.0	2.44	61.9
B2-OFFX90L-0406	14720-0406	20242250	1/4	11/16-16	7/8	22	LT	2.13	54.0	1.38	35.0	2.36	59.9
B2-OFFX90S-0406	14725-0406	20242151	1/4	11/16-16	7/8	22	ST	0.91	23.0	1.26	32.0	2.24	56.9
B2-OFFX90S-0408	14725-0408	20923065	1/4	13/16-16	15/16	24	ST	1.142	29.0	1.81	46.0	2.79	70.9
B2-OFFX90S-0604	14725-0604	20591895	3/8	9/16-18	11/16	17	ST	0.83	21.0	1.10	28.0	2.15	54.6
B2-OFFX90-0606	14715-0606	20242239	3/8	11/16-16	7/8	22		1.50	38.0	1.65	42.0	2.70	68.6
B2-OFFX90L-0606	14720-0606	20241694	3/8	11/16-16	7/8	22	LT	2.13	54.0	1.65	42.0	2.70	68.6
B2-OFFX90S-0606	14725-0606	20242158	3/8	11/16-16	7/8	22	ST	0.98	25.0	1.65	42.0	2.70	68.6
B2-OFFX90-0608	14715-0608	20242252	3/8	13/16-16	15/16	24		1.61	41.0	1.73	44.0	2.78	70.6
B2-OFFX90L-0608	14720-0608	20241705	3/8	13/16-16	15/16	24	LT	2.52	64.0	1.85	47.0	2.90	73.6
B2-OFFX90S-0608	14725-0608	20242160	3/8	13/16-16	15/16	24	ST	1.14	29.0	1.65	42.0	2.70	68.6
B2-OFFX90S-0806	14725-0806	20441217	1/2	11/16-16	7/8	22	ST	0.98	25.0	1.65	42.0	2.90	73.7
B2-OFFX90-0808 <sup>c</sup>	14715-0808	20241704	1/2	13/16-16	15/16	24		1.65	42.0	1.38	35.0	2.63	66.7
B2-OFFX90L-0808 <sup>c</sup>	14720-0808	20242216	1/2	13/16-16	15/16	24	LT	2.52	64.0	1.50	38.0	2.74	69.7
B2-OFFX90S-0808 <sup>c</sup>	14725-0808	20242226	1/2	13/16-16	15/16	24	ST	1.14	29.0	1.58	40.0	2.82	71.7
B2-OFFX90-0810	14715-0810	20241703	1/2	1-14	1 3/16	30		1.85	47.0	1.89	48.0	3.14	79.7
B2-OFFX90L-0810	14720-0810	20242214	1/2	1-14	1 3/16	30	LT	2.76	70.1	1.81	46.0	3.06	77.6
B2-OFFX90S-0810	14725-0810	20242249	1/2	1-14	1 3/16	30	ST	1.28	32.5	1.81	46.0	3.06	77.6
B2-OFFX90S-0812	14725-0812	20293220	1/2	1 3/16-12	1 3/16	36	ST	2.01	51.1	2.19	55.6	3.44	87.3
B2-OFFX90-1010	14715-1010	20242242	5/8	1-14	1 3/16	30		1.73	44.0	2.17	55.0	3.52	89.5
B2-OFFX90L-1010	14720-1010	20241696	5/8	1-14	1 3/16	30	LT	2.77	70.2	2.17	55.0	3.52	89.5
B2-OFFX90S-1010	14725-1010	20242162	5/8	1-14	1 3/16	30	ST	1.28	32.5	2.05	52.0	3.40	86.5
B2-OFFX90S-1012	14725-1012	20242161	5/8	1 3/16-12	1 3/16	36	ST	1.93	49.0	2.17	55.1	3.53	89.6
B2-OFFX90S-1210	14725-1210	20242167	3/4	1-14	1 3/16	30	ST	1.54	39.1	1.75	44.5	3.30	83.9
B2-OFFX90-1212	14715-1212	20242237	3/4	1 3/16-12	1 3/16	36		2.28	58.0	2.44	62.0	3.99	101.4
B2-OFFX90L-1212	14720-1212	20242255	3/4	1 3/16-12	1 3/16	36	LT	3.78	96.0	2.44	62.0	3.99	101.4
B2-OFFX90S-1212	14725-1212	20242153	3/4	1 3/16-12	1 3/16	36	ST	2.01	51.0	2.40	61.0	3.96	100.5
B2-OFFX90S-1216	14725-1216	20242155	3/4	1 3/16-12	1 3/8	41	ST	2.80	71.1	2.60	66.0	4.15	105.5
B2-OFFX90S-1612	14725-1612	20441218	1	1 3/16-12	1 3/16	36	ST	2.01	51.0	2.43	61.7	4.20	106.8
B2-OFFX90-1616	14715-1616	20241698	1	1 3/16-12	1 3/8	41		2.60	66.0	3.27	83.0	5.04	128.1

Continued on the next page.

## FITTINGS



## Section 1

B2 Fittings

### COMPATIBLE HOSE:

SR1SN SR2SN LR16SC DR16SC ACP3 SR12 ARC16SC  
 DR1SN DR2SN LCP3 XR16SC XCP3 ARC12 Hot Oiler  
 SFS LR2SN SR16SC SCP3 XCP4

For a detailed list, please refer to your Crimp Specifications Manual.

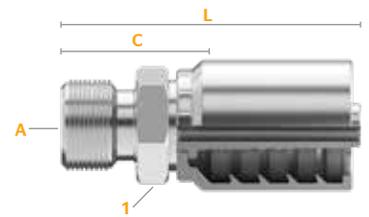
O-Ring Face Seal (Female 90° Elbow) Continued

Part Number	Product Number	SAP Number	Hose ID	Thread Size (A)	Hex 1 Wrench Size		Elbow Type*	Drop (D)		Cut-Off (C)		Length (L)	
				in.	in.	in.		mm	in.	mm	in.	mm	in.
B2-OFFX90L-1616	14720-1616	20242202	1	1 7/16-12	1 5/8	41	LT	4.49	114.0	3.27	83.0	5.04	128.1
B2-OFFX90S-1616	14725-1616	20242244	1	1 7/16-12	1 5/8	41	ST	2.28	58.0	3.27	83.0	5.04	128.1
B2-OFFX90-1620	14715-1620	20242253	1	1 7/16-12	2	50		3.07	78.0	3.27	83.0	5.04	128.1
B2-OFFX90S-1620	14725-1620	20242235	1	1 7/16-12	2	50	ST	2.52	64.0	3.27	83.0	5.04	128.1
B2-OFFX90-2020	28715-2020	20241702	1 1/4	1 7/16-12	2	50		3.07	78.0	3.82	97.0	5.87	149.0
B2-OFFX90L-2020	28720-2020	20242212	1 1/4	1 7/16-12	2	50	LT	5.08	129.0	3.82	97.0	5.87	149.0
B2-OFFX90S-2020	28725-2020	20242247	1 1/4	1 7/16-12	2	50	ST	2.68	68.1	3.74	95.0	5.79	147.0
B2-OFFX90L-2024	28720-2024	20242213	1 1/4	2-12	2 3/8	60	LT	5.55	141.0	4.02	102.1	6.07	154.1
B2-OFFX90S-2024	28725-2024	20242248	1 1/4	2-12	2 3/8	60	ST	2.72	69.1	4.02	102.1	6.07	154.1
B2-OFFX90-2424	28715-2424	20241701	1 1/2	2-12	2 3/8	60		3.43	87.1	4.25	108.0	6.58	167.1
B2-OFFX90L-2424	28720-2424	20441321	1 1/2	2-12	2 3/8	60	LT	5.55	141.0	4.37	111.0	6.70	170.1
B2-OFFX90S-2424	28725-2424	20242246	1 1/2	2-12	2 3/8	60	ST	3.07	78.0	4.02	102.1	6.35	161.2

C=Crimp Nut (See Fitting Identification in Appendix for more information) \*Elbow Type: LT=Long Tube ST=Short Tube

## O-Ring Face Seal (SAE J1453 ORS/ORFS)

Male



Part Number	Product Number	SAP Number	Hose ID	Thread Size (A)	Hex 1 Wrench Size		Cut-Off (C)		Length (L)	
			in.	in.	in.	mm	in.	mm	in.	mm
B2-OFM-0404	14730-0404	20242187	1/4	9/16-18	11/16	17	1.00	25.4	1.98	50.3
B2-OFM-0406	14730-0406	20441219	1/4	11/16-16	3/4	19	0.96	24.3	1.94	49.1
B2-OFM-0506	14730-0506	20959267	5/16	11/16-16	3/4	19	1.052	26.7	2.03	51.6
B2-OFM-0606	14730-0606	20242181	3/8	11/16-16	3/4	19	1.05	26.7	2.10	53.4
B2-OFM-0608	14730-0608	20242183	3/8	13/16-16	7/8	22	1.05	26.6	2.10	53.2
B2-OFM-0808	14730-0808	20242174	1/2	13/16-16	7/8	22	1.19	30.3	2.44	62.0
B2-OFM-0810	14730-0810	20242173	1/2	1-14	1 1/8	27	1.21	30.7	2.46	62.4
B2-OFM-0812	14730-0812	20242172	1/2	1 3/8-12	1 1/4	32	1.34	34.0	2.59	65.7
B2-OFM-1010	14730-1010	20242186	5/8	1-14	1 1/8	27	1.22	30.9	2.57	65.3
B2-OFM-1012	14730-1012	20242185	5/8	1 3/8-12	1 1/4	32	1.34	34.1	2.70	68.6
B2-OFM-1212	14730-1212	20242177	3/4	1 3/8-12	1 1/4	32	1.36	34.6	2.92	74.1
B2-OFM-1216	14730-1216	20242179	3/4	1 7/8-12	1 5/8	41	1.55	39.3	3.10	78.8
B2-OFM-1616	14730-1616	20242194	1	1 7/8-12	1 1/2	38	1.47	37.4	3.25	82.5
B2-OFM-2020	28730-2020	20242171	1 1/4	1 7/8-12	1 5/8	46	1.64	41.7	3.69	93.7

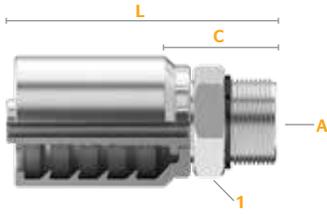


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**Section 1**  
B2 Fittings

**FITTINGS**





## O-Ring Boss Straight Thread (SAE J514)

Male

Part Number	Product Number	SAP Number								
			Hose ID	Thread Size (A)	Hex 1 Wrench Size	Cut-Off (C)	Length (L)	in.	mm	
B2-OBM-0404	14670-0404	20242133	1/4	7/16-20	9/16	14	0.88	22.3	1.86	47.2
B2-OBM-0405	14670-0405	20242132	1/4	1/2-20	5/8	16	0.88	22.3	1.86	47.2
B2-OBM-0406	14670-0406	20242129	1/4	9/16-18	11/16	17	0.88	22.2	1.86	47.1
B2-OBM-0408	14670-0408	20297678	1/4	3/4-16	7/8	22	0.98	24.9	1.96	49.8
B2-OBM-0606	14670-0606	20242122	3/8	9/16-18	3/4	19	0.94	23.7	1.98	50.4
B2-OBM-0608	14670-0608	20242121	3/8	3/4-16	7/8	22	0.73	18.6	2.04	51.7
B2-OBM-0610	14670-0610	20242117	3/8	7/8-14	1 1/16	27	1.08	27.4	2.13	54.1
B2-OBM-0806	14670-0806	20873205	1/2	9/16-18	13/16	20	0.96	24.4	2.21	56.1
B2-OBM-0808	14670-0808	20242134	1/2	3/4-16	7/8	22	1.01	25.6	2.26	57.3
B2-OBM-0808S	14670-0808S	20424923	1/2	3/4-16	7/8	22	1.01	25.6	2.26	57.3
B2-OBM-0810	14670-0810	20242131	1/2	7/8-14	1 1/8	27	1.10	27.9	2.35	59.6
B2-OBM-0812	14670-0812	20242128	1/2	1 1/8-12	1 1/4	32	1.26	32.1	2.51	63.8
B2-OBM-1008	14670-1008	20293194	5/8	3/4-16	15/16	24	1.04	26.4	2.40	60.8
B2-OBM-1010	14670-1010	20293195	5/8	7/8-14	15/16	24	1.10	27.9	2.46	62.4
B2-OBM-1012	14670-1012	20242123	5/8	1 1/8-12	1 1/4	32	1.27	32.2	2.63	66.7
B2-OBM-1210	14670-1210	20242120	3/4	7/8-14	1 1/8	27	1.13	28.6	2.68	68.0
B2-OBM-1212	14670-1212	20242126	3/4	1 1/8-12	1 1/4	32	1.29	32.7	2.84	72.2
B2-OBM-1216	14670-1216	20242118	3/4	1 1/8-12	1 1/2	38	1.37	34.8	2.92	74.2
B2-OBM-1616	14670-1616	20242127	1	1 5/8-12	1 1/2	38	1.38	35.0	3.15	80.1
B2-OBM-2020	28670-2020	20293258	1 1/4	1 5/8-12	1 7/8	46	1.55	39.3	3.59	91.3
B2-OBM-2424	28670-2424	20307206	1 1/2	1 7/8-12	1 7/8	50	1.60	40.5	3.92	99.7

S=Stainless Steel (See Fitting Identification in Appendix for more information.)

## FITTINGS



### Section 1 B2 Fittings

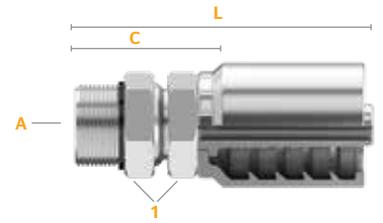
#### COMPATIBLE HOSE:

SR1SN	SR2SN	LR16SC	DR16SC	ACP3	SR12	ARC16SC
DR1SN	DR2SN	LCP3	XR16SC	XCP3	ARC12	Hot Oiler
SFS	LR2SN	SR16SC	SCP3	XCP4		

For a detailed list, please refer to your Crimp Specifications Manual.

## O-Ring Boss Straight Thread (SAE J514)

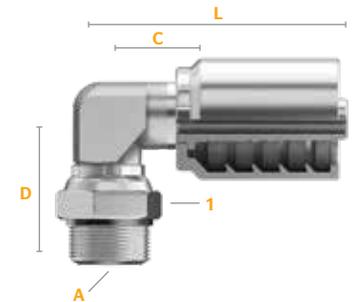
Male / Swivel



Part Number	Product Number	SAP Number								
			Hose ID	Thread Size (A)	Hex 1 Wrench Size		Cut-Off (C)		Length (L)	
			in.		in.	mm	in.	mm	in.	mm
B2-OBMX-0404	14680-0404	20293196	1/4	7/16-20	11/16	17	1.30	32.9	2.28	57.8
B2-OBMX-0406	14680-0406	20441229	1/4	9/16-18	7/8	22	1.69	43.0	2.67	67.9
B2-OBMX-0606	14680-0606	20293197	3/8	9/16-18	7/8	22	1.61	40.9	2.66	67.5
B2-OBMX-0608	14680-0608	20293198	3/8	3/4-16	1	25	1.73	44.0	2.78	70.6
B2-OBMX-0808	14680-0808	20293199	1/2	3/4-16	1	25	1.68	42.7	2.93	74.4
B2-OBMX-0810	14680-0810	20293200	1/2	7/8-14	1	25	1.69	42.9	2.94	74.6
B2-OBMX-1212	14680-1212	20293201	3/4	1 1/6-12	1 1/4	32	1.97	50.0	3.52	89.4

## O-Ring Boss Straight Thread (SAE J514)

Male / 90° Block Elbow / Swivel



Part Number	Product Number	SAP Number										
			Hose ID	Thread Size (A)	Hex 1 Wrench Size		Drop (D)		Cut-Off (C)		Length (L)	
			in.		in.	mm	in.	mm	in.	mm	in.	mm
B2-OBMX90B-0405	14685-0405	20293202	1/4	1/2-20	11/16	17	1.50	38.07	0.71	18.1	1.69	43.0
B2-OBMX90B-0406	14685-0406	20441270	1/4	9/16-18	7/8	22	1.74	44.30	0.80	20.3	1.78	45.2
B2-OBMX90B-0606	14685-0606	20293203	3/8	9/16-18	7/8	22	1.74	44.30	0.92	23.3	1.97	50.0
B2-OBMX90B-0608	14685-0608	20293204	3/8	3/4-16	1	25	2.17	55.02	1.13	28.8	2.18	55.4
B2-OBMX90B-0610	14685-0610	20928905	3/8	7/8-14	1	25	1.91	48.50	1.13	28.8	2.181	55.4
B2-OBMX90B-0808	14685-0808	20293205	1/2	3/4-16	1	25	2.17	55.02	1.16	29.4	2.41	61.1
B2-OBMX90B-0810	14685-0810	20293206	1/2	7/8-14	1	25	2.17	55.19	1.16	29.4	2.41	61.1
B2-OBMX90B-1012	14685-1012	20294829	5/8	1 1/6-12	1 1/4	32	2.58	65.61	1.23	31.3	2.59	65.8
B2-OBMX90B-1212	14685-1212	20293207	3/4	1 1/6-12	1 1/4	32	2.58	65.48	1.24	31.5	2.80	71.0

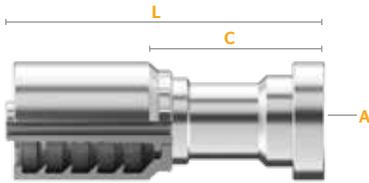


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**Section 1**  
B2 Fittings

**FITTINGS**

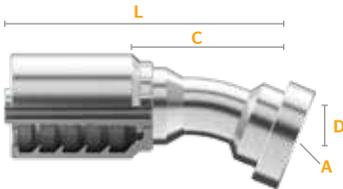




## Code 61 Flange (SAE J518)

Part Number	Product Number	SAP Number	Hose ID	Flange Size	Flange Diameter (A)		Cut-Off (C)		Length (L)	
					in.	mm	in.	mm	in.	mm
B2-FL-0808	14320-0808	20242908	1/2	1/2	1.19	30.2	1.61	40.9	2.86	72.6
B2-FL-0812	14320-0812	20242906	1/2	3/4	1.50	38.1	1.65	41.9	2.90	73.6
B2-FL-1012	14320-1012	20242899	5/8	3/4	1.50	38.1	1.60	40.7	3.02	76.6
B2-FL-1212	14320-1212	20242901	3/4	3/4	1.50	38.1	1.67	42.4	3.22	81.9
B2-FL-1216	14320-1216	20242903	3/4	1	1.75	44.5	1.99	50.5	3.54	90.0
B2-FL-1616	14320-1616	20242879	1	1	1.75	44.5	2.02	51.3	3.80	96.4
B2-FL-1620	14320-1620	20242902	1	1 1/4	2.00	50.8	2.12	53.8	3.90	98.9
B2-FL-2020	28320-2020	20242909	1 1/4	1 1/4	2.00	50.8	2.19	55.6	4.24	107.6
B2-FL-2020S	28320-2020S	20933772	1 1/4	1 1/4	2.00	50.8	2.19	55.6	4.24	107.6
B2-FL-2024	28320-2024	20242910	1 1/4	1 1/2	2.37	60.3	2.30	58.5	4.35	110.5
B2-FL-2424	28320-2424	20242886	1 1/2	1 1/2	2.37	60.3	2.31	58.7	4.64	117.8
B2-FL-2424S	28320-2424S	20933773	1 1/2	1 1/2	2.37	60.3	2.31	58.7	4.64	117.8
B2-FL-2432	28320-2432	20242911	1 1/2	2	2.81	71.4	2.76	70.1	5.09	129.2
B2-FL-3232	28320-3232	20242895	2	2	2.81	71.4	2.76	70.0	5.59	142.0
B2-FL-3232S	28320-3232S	20933774	2	2	2.81	71.4	2.76	70.0	5.59	142.0

S=Stainless Steel (See Fitting Identification in Appendix for more information.)



## Code 61 Flange (SAE J518)

22.5° Elbow

Part Number	Product Number	SAP Number	Hose ID	Flange Size	Flange Diameter (A)		Drop (D)	Cut-Off (C)		Length (L)		
					in.	mm		in.	mm	in.	mm	
B2-FL22-1616	14330-1616	20242939	1	1	1.75	44.5	0.47	11.9	3.66	93.0	5.44	138.0
B2-FL22-2020	28330-2020	20242928	1 1/4	1 1/4	2.00	50.8	0.63	16.0	4.49	114.0	6.54	166.0
B2-FL22-2024	28330-2024	20293266	1 1/4	1 1/2	2.37	60.3	0.81	20.6	4.53	115.1	6.58	167.0
B2-FL22-2424	28330-2424	20242923	1 1/2	1 1/2	2.37	60.3	0.65	16.5	5.16	131.1	7.49	190.2
B2-FL22-3232	28330-3232	20293267	2	2	2.81	71.4	0.87	22.1	6.02	152.9	8.85	224.9

## FITTINGS



### Section 1 B2 Fittings

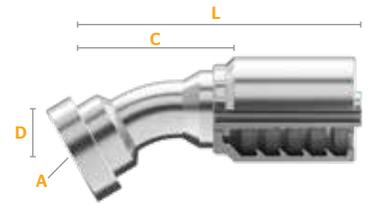
#### COMPATIBLE HOSE:

SR1SN SR2SN LR16SC DR16SC ACP3 SR12 ARC16SC  
 DR1SN DR2SN LCP3 XR16SC XCP3 ARC12 Hot Oiler  
 SFS LR2SN SR16SC SCP3 XCP4

For a detailed list, please refer to your Crimp Specifications Manual.

## Code 61 Flange (SAE J518)

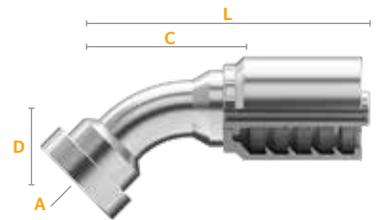
30° Elbow



Part Number	Product Number	SAP Number										
			Hose ID	Flange Size	Flange Diameter (A)	Drop (D)	Cut-Off (C)	Length (L)				
			in.		in.	mm	in.	mm	in.	mm	in.	mm
B2-FL30-1616	14335-1616	20242927	1	1	1.75	44.5	0.83	21.1	3.54	89.9	5.32	135.0
B2-FL30-2020	28335-2020	20242922	1 ¼	1 ¼	2.00	50.8	0.98	24.9	4.02	102.1	6.07	154.1
B2-FL30-2024	28335-2024	20242913	1 ¼	1 ½	2.37	60.3	1.06	26.9	4.41	112.0	6.46	164.0
B2-FL30-2424	28335-2424	20242924	1 ½	1 ½	2.37	60.3	0.91	23.1	5.35	135.9	7.68	195.0
B2-FL30-2432	28335-2432	20293269	1 ½	2	2.81	71.4	1.44	36.6	5.91	150.1	8.24	209.2
B2-FL30-3232	28335-3232	20293270	2	2	2.81	71.4	1.18	30.0	5.87	149.1	8.70	221.1

## Code 61 Flange (SAE J518)

45° Elbow



Part Number	Product Number	SAP Number										
			Hose ID	Flange Size	Flange Diameter (A)	Drop (D)	Cut-Off (C)	Length (L)				
			in.		in.	mm	in.	mm	in.	mm	in.	mm
B2-FL45-0808	14340-0808	20242949	1/2	1/2	1.19	30.2	0.87	22.1	2.09	53.1	3.34	84.8
B2-FL45-0812	14340-0812	20242947	1/2	3/4	1.50	38.1	1.02	25.9	2.36	59.9	3.61	91.6
B2-FL45-1212	14340-1212	20242942	3/4	3/4	1.50	38.1	1.26	32.0	2.91	73.9	4.46	113.4
B2-FL45-1216	14340-1216	20242944	3/4	1	1.75	44.5	1.14	29.0	3.07	78.0	4.62	117.4
B2-FL45-1616	14340-1616	20242919	1	1	1.75	44.5	1.32	33.5	3.27	83.1	5.05	128.1
B2-FL45-1620	14340-1620	20242917	1	1 ¼	2.00	50.8	1.42	36.1	3.23	82.0	5.01	127.1
B2-FL45-2020	28340-2020	20242934	1 ¼	1 ¼	2.00	50.8	1.48	37.6	3.74	95.0	5.79	147.0
B2-FL45-2020S	28340-2020S	20933775	1 ¼	1 ¼	2.00	50.8	1.48	37.6	3.74	95.0	5.79	147.0
B2-FL45-2024	28340-2024	20242921	1 ¼	1 ½	2.37	60.3	1.57	39.9	4.09	103.9	6.14	155.9
B2-FL45-2424	28340-2424	20242915	1 ½	1 ½	2.37	60.3	1.89	48.0	4.61	117.1	6.94	176.2
B2-FL45-2424S	28340-2424S	20933776	1 ½	1 ½	2.37	60.3	1.89	48.0	4.61	117.1	6.94	176.2
B2-FL45-2432	28340-2432	20242914	1 ½	2	2.81	71.4	2.19	55.6	5.35	135.9	7.68	195.1
B2-FL45-3232	28340-3232	20242945	2	2	2.81	71.4	1.87	47.5	5.55	141.0	8.38	213.0
B2-FL45-3232S	28340-3232S	20933777	2	2	2.81	71.4	1.87	47.5	5.55	141.0	8.38	213.0

S=Stainless Steel (See Fitting Identification in Appendix for more information.)

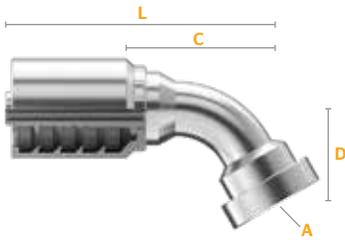


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### Section 1 B2 Fittings

## FITTINGS

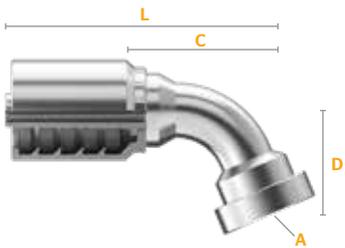




## Code 61 Flange (SAE J518)

60° Elbow

Part Number	Product Number	SAP Number										
			Hose ID	Flange Size	Flange Diameter (A)		Drop (D)		Cut-Off (C)		Length (L)	
			in.		in.	mm	in.	mm	in.	mm	in.	mm
B2-FL60-1212	14345-1212	20242938	3/4	3/4	1.50	38.1	1.46	37.1	3.39	86.1	4.94	125.6
B2-FL60-1216	14345-1216	20242936	3/4	1	1.75	44.5	1.73	43.9	4.02	102.1	5.66	143.8
B2-FL60-1616	14345-1616	20293255	1	1	1.75	44.5	1.85	47.0	3.98	101.1	5.76	146.2
B2-FL60-2020	28345-2020	20242937	1 ¼	1 ¼	2.00	50.8	2.22	56.4	5.10	129.5	7.15	181.5
B2-FL60-2024	28345-2024	20293271	1 ¼	1 ½	2.37	60.3	2.28	58.0	5.31	134.9	7.36	187.0
B2-FL60-2424	28345-2424	20293272	1 ½	1 ½	2.37	60.3	2.28	57.9	5.31	134.9	7.36	186.8
B2-FL60-2432	28345-2432	20293273	1 ½	2	2.81	71.4	3.05	77.5	6.52	165.6	8.85	224.7
B2-FL60-3232	28345-3232	20293274	2	2	2.81	71.4	3.62	91.9	6.81	173.0	9.64	245.0



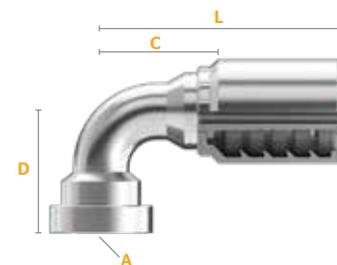
## Code 61 Flange (SAE J518)

67° Elbow

Part Number	Product Number	SAP Number										
			Hose ID	Flange Size	Flange Diameter (A)		Drop (D)		Cut-Off (C)		Length (L)	
			in.		in.	mm	in.	mm	in.	mm	in.	mm
B2-FL67-1616	14347-1616	20293256	1	1	1.75	44.5	1.95	49.5	3.68	93.5	5.46	138.6
B2-FL67-2020	28347-2020	20293278	1 ¼	1 ¼	2.00	50.8	2.46	62.5	4.72	119.9	6.77	171.9
B2-FL67-2024	28347-2024	20293279	1 ¼	1 ½	2.37	60.3	2.58	65.5	4.78	121.4	6.83	173.5
B2-FL67-2424	28347-2424	20293280	1 ½	1 ½	2.37	60.3	2.58	65.5	5.33	135.4	7.66	194.5
B2-FL67-2432	28347-2432	20293281	1 ½	2	2.81	71.4	3.46	87.9	5.55	141.0	7.88	200.1
B2-FL67-3232	28347-3232	20293282	2	2	2.81	71.4	3.76	95.5	7.05	179.1	9.88	251.1

## Code 61 Flange (SAE J518)

90° Elbow

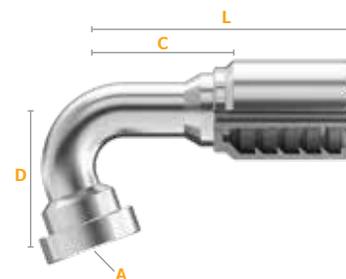


Part Number	Product Number	SAP Number										
			Hose ID	Flange Size	Flange Diameter (A)		Drop (D)		Cut-Off (C)		Length (L)	
			in.		in.	mm	in.	mm	in.	mm	in.	mm
B2-FL90-0808	14350-0808	20242888	1/2	1/2	1.19	30.2	1.65	41.9	1.81	46.0	3.06	77.6
B2-FL90-0812	14350-0812	20242877	1/2	3/4	1.50	38.1	2.01	51.1	1.77	45.0	3.02	76.6
B2-FL90-1212	14350-1212	20242881	3/4	3/4	1.50	38.1	2.36	59.9	2.28	57.9	3.83	97.4
B2-FL90-1216	14350-1216	20242883	3/4	1	1.75	44.5	2.54	64.5	2.60	66.0	4.15	105.5
B2-FL90-1616	14350-1616	20242930	1	1	1.75	44.5	2.64	67.1	2.80	71.1	4.58	116.2
B2-FL90-1620	14350-1620	20242893	1	1 1/4	2.00	50.8	2.80	71.1	2.91	73.9	4.69	119.0
B2-FL90-2016	28350-2016	20242897	1 1/4	1	1.75	44.5	2.56	65.0	3.70	94.0	5.75	146.0
B2-FL90-2020	28350-2020	20242931	1 1/4	1 1/4	2.00	50.8	3.31	84.0	3.46	88.0	5.51	140.0
B2-FL90-2020S	28350-2020S	20933778	1 1/4	1 1/4	2.00	50.8	3.31	84.0	3.46	88.0	5.51	140.0
B2-FL90-2024	28350-2024	20242889	1 1/4	1 1/2	2.37	60.3	3.44	87.4	3.58	90.9	5.63	142.9
B2-FL90-2424	28350-2424	20242891	1 1/2	1 1/2	2.37	60.3	3.58	90.9	4.13	104.9	6.46	164.0
B2-FL90-2424S	28350-2424S	20933779	1 1/2	1 1/2	2.37	60.3	3.58	90.9	4.13	104.9	6.46	164.0
B2-FL90-2432	28350-2432	20242890	1 1/2	2	2.81	71.4	4.53	115.1	4.13	104.9	6.46	164.0
B2-FL90-3232	28350-3232	20242894	2	2	2.81	71.4	5.12	130.0	5.08	129.0	7.91	201.0
B2-FL90-3232S	28350-3232S	20933820	2	2	2.81	71.4	5.12	130.0	5.08	129.0	7.91	201.0

S=Stainless Steel (See Fitting Identification in Appendix for more information.)

## Code 61 Flange (SAE J518)

110° Elbow



Part Number	Product Number	SAP Number										
			Hose ID	Flange Size	Flange Diameter (A)		Drop (D)		Cut-Off (C)		Length (L)	
			in.		in.	mm	in.	mm	in.	mm	in.	mm
B2-FL110-2424	28354-2424	20441319	1 1/2	1 1/2	2.37	60.3	4.33	110.0	3.74	95.0	6.06	154.0

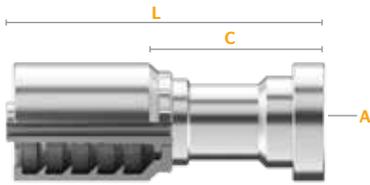


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**Section 1**  
B2 Fittings

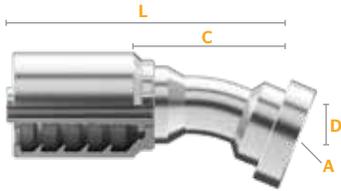
**FITTINGS**





## Code 62 Flange (SAE J518)

Part Number	Product Number	SAP Number								
			Hose ID	Flange Size	Flange Diameter (A)		Cut-Off (C)		Length (L)	
			in.	in.	in.	mm	in.	mm	in.	mm
B2-FH-1212	14300-1212	20241745	3/4	3/4	1.63	41.3	2.07	52.6	3.62	92.0
B2-FH-1616	14300-1616	20242954	1	1	1.87	47.6	2.22	56.4	4.00	101.5
B2-FH-1620	14300-1620	20242951	1	1 ¼	2.13	54.0	2.48	62.9	4.25	108.0
B2-FH-2016	28300-2016	20441292	1 ¼	1	1.87	47.6	3.26	82.9	5.31	134.9
B2-FH-2020	28300-2020	20241752	1 ¼	1 ¼	2.13	54.0	3.27	83.1	5.32	135.0
B2-FH-2024	28300-2024	20241754	1 ¼	1 ½	2.50	63.5	2.79	71.0	4.84	122.9
B2-FH-2424	28300-2424	20241751	1 ½	1 ½	2.50	63.5	3.74	95.0	6.07	154.1
B2-FH-2432	28300-2432	20241757	1 ½	2	3.13	79.4	2.99	75.9	5.32	135.1
B2-FH-3232	28300-3232	20241759	2	2	3.13	79.4	2.99	75.9	5.82	147.9



## Code 62 Flange (SAE J518)

22.5° Elbow

Part Number	Product Number	SAP Number										
			Hose ID	Flange Size	Flange Diameter (A)		Drop (D)		Cut-Off (C)		Length (L)	
			in.		in.	mm	in.	mm	in.	mm	in.	mm
B2-FH22-2020	28303-2020	20293291	1 ¼	1 ¼	2.13	54.0	0.69	17.5	4.72	120.0	6.77	172.0
B2-FH22-2024	28303-2024	20293292	1 ¼	1 ½	2.50	63.5	0.81	20.5	5.04	128.0	7.09	180.0

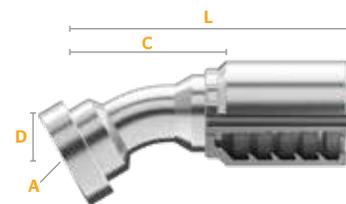
COMPATIBLE HOSE:

SR1SN	SR2SN	LR16SC	DR16SC	ACP3	SR12	ARC16SC
DR1SN	DR2SN	LCP3	XR16SC	XCP3	ARC12	Hot Oiler
SFS	LR2SN	SR16SC	SCP3	XCP4		

For a detailed list, please refer to your Crimp Specifications Manual.

## Code 62 Flange (SAE J518)

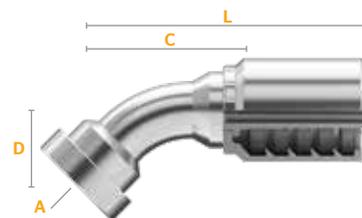
30° Elbow



Part Number	Product Number	SAP Number	Hose ID		Flange Diameter (A)		Drop (D)		Cut-Off (C)		Length (L)	
			in.	mm	in.	mm	in.	mm	in.	mm	in.	mm
B2-FH30-2020	28305-2020	20293295	1 ¼	31.8	2.13	54.0	0.96	24.4	4.61	117.1	6.66	169.0
B2-FH30-2024	28305-2024	20293296	1 ¼	31.8	2.50	63.5	1.12	28.5	4.90	124.5	6.95	176.5
B2-FH30-2424	28305-2424	20293297	1 ½	38.1	2.50	63.5	1.08	27.4	5.22	132.6	7.55	191.7
B2-FH30-3232	28305-3232	20293298	2	50.8	3.13	79.4	1.44	36.6	6.65	168.9	9.48	240.9

## Code 62 Flange (SAE J518)

45° Elbow



Part Number	Product Number	SAP Number	Hose ID		Flange Diameter (A)		Drop (D)		Cut-Off (C)		Length (L)	
			in.	mm	in.	mm	in.	mm	in.	mm	in.	mm
B2-FH45-1212	14310-1212	20241791	3/4	19.0	1.63	41.3	1.22	31.0	3.31	84.1	4.86	123.5
B2-FH45-1616	14310-1616	20241775	1	25.4	1.87	47.6	1.42	36.1	3.82	97.0	5.60	142.1
B2-FH45-1620	14310-1620	20241772	1	25.4	2.13	54.0	1.54	39.1	3.78	96.0	5.56	141.1
B2-FH45-2020	28310-2020	20241764	1 ¼	31.8	2.13	54.0	1.57	40.0	4.29	109.0	6.34	161.0
B2-FH45-2024	28310-2024	20241765	1 ¼	31.8	2.50	63.5	1.79	45.5	4.53	115.1	6.58	167.0
B2-FH45-2424	28310-2424	20241769	1 ½	38.1	2.50	63.5	1.77	45.0	4.84	122.9	7.17	182.1
B2-FH45-2432	28310-2432	20241776	1 ½	38.1	3.13	79.4	2.26	57.4	5.24	133.1	7.57	192.2
B2-FH45-3232	28310-3232	20241767	2	50.8	3.13	79.4	2.36	59.9	6.18	157.0	9.01	229.0

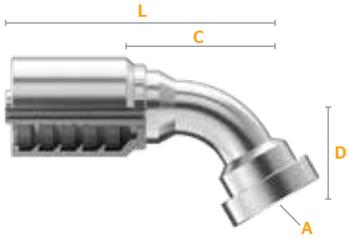


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**Section 1**  
B2 Fittings

**FITTINGS**

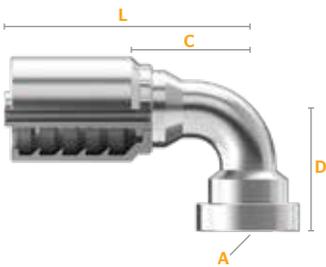




## Code 62 Flange (SAE J518)

60° Elbow

Part Number	Product Number	SAP Number										
			Hose ID	Flange Size	Flange Diameter (A)		Drop (D)		Cut-Off (C)		Length (L)	
			in.		in.	mm	in.	mm	in.	mm	in.	mm
B2-FH60-2020	28312-2020	20293301	1 ¼	1 ¼	2.13	54.0	2.32	58.9	5.26	133.6	7.30	185.5
B2-FH60-2024	28312-2024	20293302	1 ¼	1 ½	2.50	63.5	2.48	63.0	5.49	139.5	7.54	191.5



## Code 62 Flange (SAE J518)

90° Elbow

Part Number	Product Number	SAP Number										
			Hose ID	Flange Size	Flange Diameter (A)		Drop (D)		Cut-Off (C)		Length (L)	
			in.		in.	mm	in.	mm	in.	mm	in.	mm
B2-FH90-0808	14315-0808	20241744	1/2	1/2	1.25	31.8	1.81	46.0	1.89	48.0	3.32	84.3
B2-FH90-1212	14315-1212	20241732	3/4	3/4	1.63	41.3	2.40	61.0	2.48	63.0	4.03	102.4
B2-FH90-1616	14315-1616	20241788	1	1	1.87	47.6	2.95	74.9	2.91	73.9	4.69	119.0
B2-FH90-1620	14315-1620	20241785	1	1 ¼	2.13	54.0	3.07	78.0	3.07	78.0	4.85	123.1
B2-FH90-2016	28315-2016	20441315	1 ¼	1	1.87	47.6	2.83	71.9	3.35	85.1	5.40	137.0
B2-FH90-2020	28315-2020	20241780	1 ¼	1 ¼	2.13	54.0	3.50	89.0	3.70	94.0	5.75	146.0
B2-FH90-2024	28315-2024	20241781	1 ¼	1 ½	2.50	63.5	3.70	94.0	3.86	98.0	5.91	150.0
B2-FH90-2424	28315-2424	20241771	1 ½	1 ½	2.50	63.5	4.13	104.9	3.94	100.1	6.27	159.2
B2-FH90-2432	28315-2432	20241777	1 ½	2	3.13	79.4	4.84	122.9	4.53	115.1	6.86	174.2
B2-FH90-3232	28315-3232	20241740	2	2	3.13	79.4	5.20	132.1	5.63	143.0	8.46	215.0

### FITTINGS



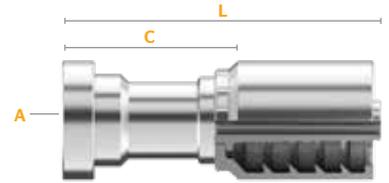
### Section 1 B2 Fittings

**COMPATIBLE HOSE:**

SR1SN SR2SN LR16SC DR16SC ACP3 SR12 ARC16SC  
 DR1SN DR2SN LCP3 XR16SC XCP3 ARC12 Hot Oiler  
 SFS LR2SN SR16SC SCP3 XCP4

*For a detailed list, please refer to your Crimp Specifications Manual.*

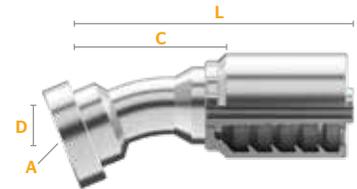
## Caterpillar® Flange



Part Number	Product Number	SAP Number								
			Hose ID	Flange Size	Flange Diameter (A)		Cut-Off (C)		Length (L)	
			in.		in.	mm	in.	mm	in.	mm
B2-CF-2020	28185-2020	20441206	1 ¼	1 ¼	2.13	54.0	3.43	87.0	5.47	139.0
B2-CF-2024	28185-2024	20441279	1 ¼	1 ½	2.50	63.5	3.58	91.0	5.63	143.0
B2-CF-2424	28185-2424	20293307	1 ½	1 ½	2.50	63.5	3.31	84.0	5.63	143.0
B2-CF-2432	28185-2432	20441323	1 ½	2	3.13	79.4	3.86	98.0	6.18	157.0
B2-CF-3232	28185-3232	20293308	2	2	3.13	79.4	4.33	110.0	7.17	182.0

## Caterpillar® Flange

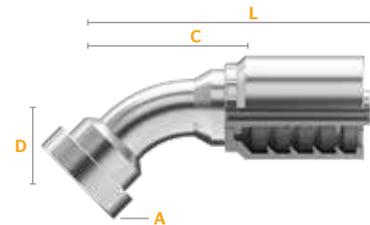
22.5° Elbow



Part Number	Product Number	SAP Number										
			Hose ID	Flange Size	Flange Diameter (A)		Drop (D)	Cut-Off (C)		Length (L)		
			in.		in.	mm	in.	mm	in.	mm	in.	mm
B2-CF22-2020	28187-2020	20441307	1 ¼	1 ¼	2.13	54.0	0.77	19.5	4.80	122.0	6.85	174.0
B2-CF22-2024	28187-2024	20441281	1 ¼	1 ½	2.50	63.5	0.91	23.0	5.12	130.0	7.17	182.0

## Caterpillar® Flange

45° Elbow



Part Number	Product Number	SAP Number										
			Hose ID	Flange Size	Flange Diameter (A)		Drop (D)	Cut-Off (C)		Length (L)		
			in.		in.	mm	in.	mm	in.	mm	in.	mm
B2-CF45-2020	28190-2020	20441285	1 ¼	1 ¼	2.13	54.0	1.69	43.0	4.33	110.0	6.38	162.0
B2-CF45-2024	28190-2024	20441286	1 ¼	1 ½	2.50	63.5	1.95	49.5	4.57	116.0	6.61	168.0
B2-CF45-2424	28190-2424	20441325	1 ½	1 ½	2.50	63.5	1.89	48.0	7.01	178.0	9.33	237.0

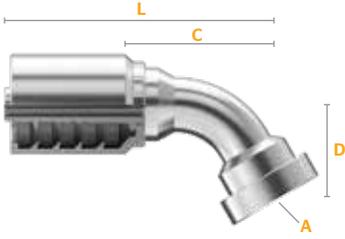


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**Section 1**  
B2 Fittings

**FITTINGS**



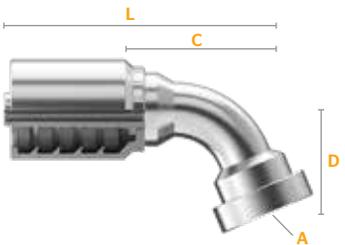


## Caterpillar® Flange

60° Elbow



Part Number	Product Number	SAP Number	Hose ID	Flange Size	Flange Diameter (A)		Drop (D)		Cut-Off (C)		Length (L)	
			in.		in.	mm	in.	mm	in.	mm	in.	mm
B2-CF60-2020	28192-2020	20441289	1 ¼	1 ¼	2.13	54.0	2.52	64.0	5.2	132.0	7.24	184.0
B2-CF60-2024	28192-2024	20441290	1 ¼	1 ½	2.50	63.5	2.76	70.0	5.35	136.0	7.40	188.0
B2-CF60-2432	28192-2432	20441326	1 ½	2	3.13	79.4	3.35	85.0	5.47	139.0	7.80	198.0

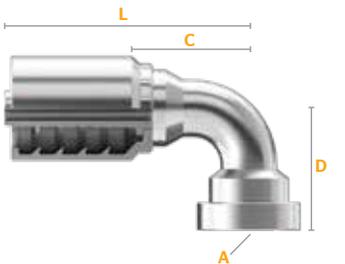


## Caterpillar® Flange

67° Elbow



Part Number	Product Number	SAP Number	Hose ID	Flange Size	Flange Diameter (A)		Drop (D)		Cut-Off (C)		Length (L)	
			in.		in.	mm	in.	mm	in.	mm	in.	mm
B2-CF67-2020	28194-2020	20441327	1 ¼	1 ¼	2.13	54.0	2.76	70.0	4.92	125.0	6.97	177.0
B2-CF67-2024	28194-2024	20441328	1 ¼	1 ½	2.50	63.5	3.07	78.0	5.04	128.0	7.09	180.0



## Caterpillar® Flange

90° Elbow



Part Number	Product Number	SAP Number	Hose ID	Flange Size	Flange Diameter (A)		Drop (D)		Cut-Off (C)		Length (L)	
			in.		in.	mm	in.	mm	in.	mm	in.	mm
B2-CF90-2020	28195-2020	20441274	1 ¼	1 ¼	2.13	54.0	3.66	93.0	3.62	92.0	5.67	144.0
B2-CF90-2024	28195-2024	20441275	1 ¼	1 ½	2.50	63.5	3.98	101.0	3.70	94.0	5.75	146.0
B2-CF90-2424	28195-2424	20441332	1 ½	1 ½	2.50	63.5	4.29	109.0	4.41	112.0	6.73	171.0

# FITTINGS



## Section 1

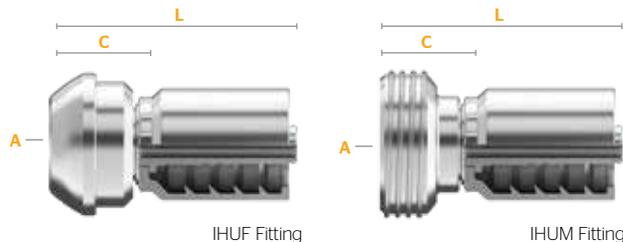
B2 Fittings

### COMPATIBLE HOSE:

SR1SN	SR2SN	LR16SC	DR16SC	ACP3	SR12	ARC16SC
DR1SN	DR2SN	LCP3	XR16SC	XCP3	ARC12	Hot Oiler
SFS	LR2SN	SR16SC	SCP3	XCP4		

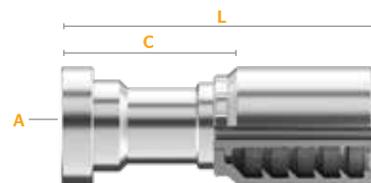
For a detailed list, please refer to your Crimp Specifications Manual.

## Hammer Union



Part Number	Product Number	SAP Number						
			Hose ID	Thread Size (A)	Cut-Off (C)		Length (L)	
			in.		in.	mm	in.	mm
B2-IHUF1502-1616	14390-1616	20873149	1	ACME-2G, 3.5 TPI	2.14	54.4	3.91	99.3
B2-IHUM1502-1616	14395-1616	20873150	1	ACME-2G, 3.5 TPI	2.10	53.3	3.88	98.6
B2-IHUF1502-2432	28390-2432	20815350	1 ½	ACME-2G, 3 TPI	2.64	67.1	4.81	122.2
B2-IHUM1502-2432	28395-2432	20815351	1 ½	ACME-2G, 3 TPI	2.38	60.5	4.88	123.9

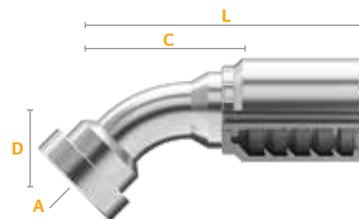
## Komatsu® Flange



Part Number	Product Number	SAP Number								
			Hose ID	Flange Size	Flange Diameter (A)		Cut-Off (C)		Length (L)	
			in.		in.	mm	in.	mm	in.	mm
B2-KF-0810	14530-0810	20293257	1/2	5/8	1.34	34.0	1.83	46.6	3.08	78.2
B2-KF-1010	14530-1010	20242060	5/8	5/8	1.34	34.0	1.843	46.8	3.20	81.3

## Komatsu® Flange

45° Elbow



Part Number	Product Number	SAP Number										
			Hose ID	Flange Size	Flange Diameter (A)		Drop (D)		Cut-Off (C)		Length (L)	
			in.		in.	mm	in.	mm	in.	mm	in.	mm
B2-KF45-1010	14535-1010	20242061	5/8	5/8	1.34	34.0	0.98	24.9	2.32	58.9	3.68	93.4

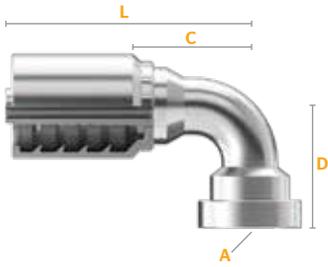


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**Section 1**  
B2 Fittings

**FITTINGS**



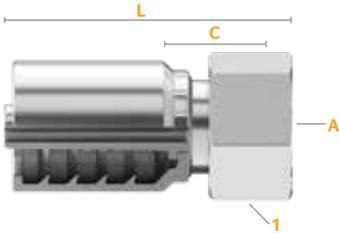


## Komatsu® Flange

90° Elbow



Part Number	Product Number	SAP Number	Flange Size		Flange Diameter (A)		Drop (D)		Cut-Off (C)		Length (L)	
			Hose ID	Flange Size	in.	mm	in.	mm	in.	mm	in.	mm
B2-KF90-1010	14540-1010	20242062	5/8	5/8	1.34	34.0	2.01	51.1	1.97	50.0	3.327	84.5



## BSPP (British Standard Pipe Parallel)

Female / Swivel



Part Number	Product Number	SAP Number	Hose ID	Thread Size (A)		Hex 1 Wrench Size	Cut-Off (C)		Length (L)	
				in.	mm		in.	mm	in.	mm
B2-BPFX-0404	14105-0404	20242821	1/4	1/4-19	19	0.93	23.7	1.91	48.6	
B2-BPFX-0406	14105-0406	20242820	1/4	3/8-19	22	1.09	27.6	2.07	52.5	
B2-BPFX-0606	14105-0606	20242834	3/8	3/8-19	22	1.09	27.8	2.14	54.4	
B2-BPFX-0608	14105-0608	20242822	3/8	1/2-14	27	1.20	30.4	2.24	57.0	
B2-BPFX-0808	14105-0808	20242826	1/2	1/2-14	27	1.22	31.0	2.47	62.7	
B2-BPFX-0810	14105-0810	20242823	1/2	5/8-14	27	1.48	37.6	2.73	69.3	
B2-BPFX-1010 <sup>C</sup>	14105-1010	20242824	5/8	5/8-14	27	1.12	28.5	2.48	62.9	
B2-BPFX-1012	14105-1012	20242839	5/8	3/4-14	32	1.49	37.8	2.84	72.2	
B2-BPFX-1212 <sup>C</sup>	14105-1212	20242818	3/4	3/4-14	32	1.17	29.7	2.72	69.1	
B2-BPFX-1616 <sup>C</sup>	14105-1616	20242862	1	1-11	38	1.36	34.4	3.13	79.5	
B2-BPFX-2020 <sup>T</sup>	28105-2020	20242842	1 1/4	1 1/4-11	50	1.69	42.8	3.73	94.8	
B2-BPFX-2424 <sup>T</sup>	28105-2424	20242860	1 1/2	1 1/2-11	55	1.80	45.8	4.13	105.0	
B2-BPFX-3232 <sup>T</sup>	28105-3232	20242819	2	2-11	70	1.98	50.2	4.81	122.2	

C=Crimp Nut T=Thrust-Wire Nut (See Fitting Identification in Appendix for more information.)

## FITTINGS



### Section 1

B2 Fittings

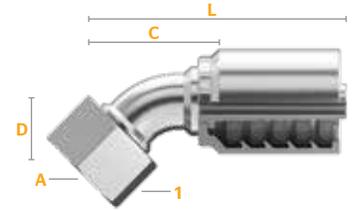
#### COMPATIBLE HOSE:

SR1SN SR2SN LR16SC DR16SC ACP3 SR12 ARC16SC  
 DR1SN DR2SN LCP3 XR16SC XCP3 ARC12 Hot Oiler  
 SFS LR2SN SR16SC SCP3 XCP4

For a detailed list, please refer to your Crimp Specifications Manual.

## BSPB (British Standard Pipe Parallel)

Female / 45° Elbow / Swivel

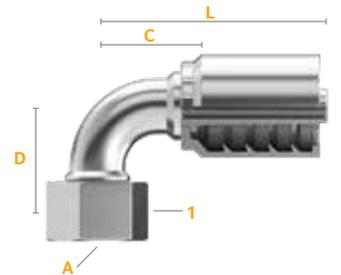


Part Number	Product Number	SAP Number									
			Hose ID	Thread Size (A)	Hex 1 Wrench Size	Drop (D)	Cut-Off (C)	Length (L)			
			in.		mm	in.	mm	in.	mm	in.	mm
B2-BPFX45-0404 <sup>S</sup>	14115-0404	20242851	1/4	1/4-19	19	0.59	15.0	1.81	46.0	2.79	70.9
B2-BPFX45-0606 <sup>S</sup>	14115-0606	20242847	3/8	3/8-19	22	0.81	20.6	1.97	50.0	3.02	76.7
B2-BPFX45-0808 <sup>S</sup>	14115-0808	20242853	1/2	1/2-14	27	0.83	21.1	2.17	55.1	3.42	86.8
B2-BPFX45-1010	14115-1010	20242846	5/8	5/8-14	27	0.85	21.6	2.52	64.0	3.88	98.5
B2-BPFX45-1212	14115-1212	20242849	3/4	3/4-14	32	1.10	27.9	2.76	70.1	4.31	109.6
B2-BPFX45-1616	14115-1616	20242850	1	1-11	38	1.34	34.0	3.31	84.1	5.09	129.2
B2-BPFX45-2020 <sup>T</sup>	28115-2020	20242854	1 1/4	1 1/4-11	50	1.57	39.9	3.98	101.1	6.03	153.1
B2-BPFX45-2424 <sup>T</sup>	28115-2424	20242855	1 1/2	1 1/2-11	55	1.81	46.0	4.57	116.1	6.90	175.2
B2-BPFX45-3232 <sup>T</sup>	28115-3232	20242841	2	2-11	70	2.36	59.9	5.98	151.9	8.81	223.9

T=Thrust-Wire Nut S=Slip Nut (See Fitting Identification in Appendix for more information.)

## BSPB (British Standard Pipe Parallel)

Female / 90° Elbow / Swivel



Part Number	Product Number	SAP Number									
			Hose ID	Thread Size (A)	Hex 1 Wrench Size	Drop (D)	Cut-Off (C)	Length (L)			
			in.		mm	in.	mm	in.	mm	in.	mm
B2-BPFX90-0404	14120-0404	20242868	1/4	1/4-19	19	1.14	29.0	1.14	29.0	2.12	53.8
B2-BPFX90-0606	14120-0606	20242864	3/8	3/8-19	22	1.65	41.9	1.38	35.1	2.43	61.7
B2-BPFX90-0608	14120-0608	20242859	3/8	1/2-14	27	1.40	35.6	1.34	34.0	2.39	60.7
B2-BPFX90-0808	14120-0808	20242870	1/2	1/2-14	27	1.61	40.9	1.42	36.1	2.67	67.7
B2-BPFX90-1010 <sup>C</sup>	14120-1010	20242863	5/8	5/8-14	27	1.85	47.0	1.89	48.0	3.25	82.5
B2-BPFX90-1212 <sup>C</sup>	14120-1212	20242866	3/4	3/4-14	32	2.09	53.1	1.93	49.0	3.48	88.5
B2-BPFX90-1616 <sup>C</sup>	14120-1616	20242845	1	1-11	38	2.72	69.1	2.95	74.9	4.73	120.0
B2-BPFX90-2020 <sup>T</sup>	28120-2020	20242848	1 1/4	1 1/4-11	50	3.27	83.1	3.23	82.0	5.28	134.1
B2-BPFX90-2424 <sup>T</sup>	28120-2424	20242843	1 1/2	1 1/2-11	55	3.78	96.0	3.78	96.0	6.11	155.1
B2-BPFX90-3232 <sup>T</sup>	28120-3232	20242867	2	2-11	70	5.35	135.9	5.04	128.0	7.87	200.0

C=Crimp Nut T=Thrust-Wire Nut (See Fitting Identification in Appendix for more information.)

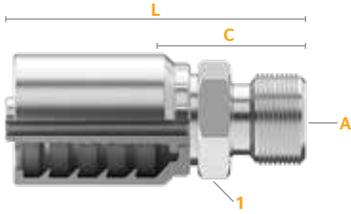


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**Section 1**  
B2 Fittings

**FITTINGS**

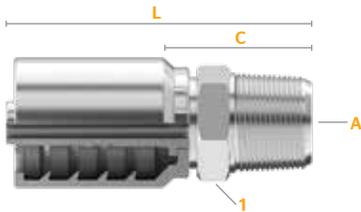




## BSPM (British Standard Pipe Parallel)

Male

Part Number	Product Number	SAP Number							
			Hose ID	Thread Size (A)	Hex 1 Wrench Size	Cut-Off (C)		Length (L)	
			in.		mm	in.	mm	in.	mm
B2-BPM-0404	14130-0404	20242840	1/4	1/4-19	19	1.03	26.2	2.01	51.1
B2-BPM-0606	14130-0606	20242829	3/8	3/8-19	22	1.10	28.0	2.15	54.6
B2-BPM-0608	14130-0608	20242830	3/8	1/2-14	27	1.24	31.5	2.29	58.1
B2-BPM-0806	14130-0806	20242835	1/2	3/8-19	22	1.12	28.5	2.37	60.2
B2-BPM-0808	14130-0808	20242827	1/2	1/2-14	27	1.26	32.0	2.51	63.7
B2-BPM-1010	14130-1010	20242828	5/8	5/8-14	30	1.35	34.3	2.71	68.8
B2-BPM-1212	14130-1212	20242832	3/4	3/4-14	32	1.45	36.7	3.00	76.1
B2-BPM-1616	14130-1616	20242838	1	1-11	41	1.69	43.0	3.47	88.1
B2-BPM-2020	28130-2020	20242836	1 1/4	1 1/4-11	50	1.89	48.0	3.40	86.3
B2-BPM-2424	28130-2424	20242837	1 1/2	1 1/2-11	55	2.00	50.7	4.33	109.9
B2-BPM-3232	28130-3232	20242833	2	2-11	70	2.28	57.9	5.11	129.8



## BSPT (British Standard Pipe Tapered)

Male

Part Number	Product Number	SAP Number							
			Hose ID	Thread Size (A)	Hex 1 Wrench Size	Cut-Off (C)		Length (L)	
			in.		mm	in.	mm	in.	mm
B2-BTM-0404	14170-0404	20242873	1/4	1/4-19	17	1.063	27.0	2.043	51.9
B2-BTM-0406	14170-0406	20923068	1/4	3/8-19	19	1.092	27.7	2.072	52.6
B2-BTM-0606	14170-0606	20242872	3/8	3/8-19	19	1.1	27.9	2.148	54.6
B2-BTM-0608	14170-0608	20923069	3/8	1/2-14	22	1.284	32.5	2.333	59.2
B2-BTM-0808	14170-0808	20242871	1/2	1/2-14	22	1.305	33.1	2.552	64.8
B2-BTM-1212	14170-1212	20242876	3/4	3/4-14	27	1.364	34.6	2.917	74.1
B2-BTM-1616	14170-1616	20242874	1	1-11	36	1.73	43.9	3.505	89.0

### FITTINGS



### Section 1

B2 Fittings

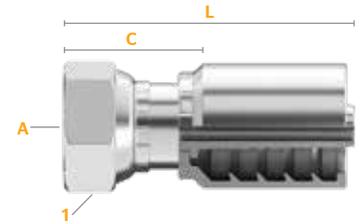
**COMPATIBLE HOSE:**

SR1SN	SR2SN	LR16SC	DR16SC	ACP3	SR12	ARC16SC
DR1SN	DR2SN	LCP3	XR16SC	XCP3	ARC12	Hot Oiler
SFS	LR2SN	SR16SC	SCP3	XCP4		

*For a detailed list, please refer to your Crimp Specifications Manual.*

# BSP Flat Seat (British Standard Pipe)

Female / Swivel

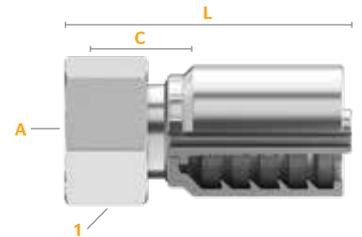


Part Number	Product Number	SAP Number							
			Hose ID	Thread Size (A)	Hex 1 Wrench Size	Cut-Off (C)		Length (L)	
			in.		mm	in.	mm	in.	mm
B2-BFFX-0606	14100-0606	20242815	3/8	3/8-19	22	0.75	19.0	1.80	45.6
B2-BFFX-0608	14100-0608	20242814	3/8	1/2-14	27	0.80	20.2	1.84	46.8
B2-BFFX-0808	14100-0808	20242816	1/2	1/2-14	27	0.82	20.9	2.07	52.5
B2-BFFX-0812	14100-0812	20242812	1/2	3/4-14	32	0.97	24.5	2.21	56.2
B2-BFFX-1212 <sup>c</sup>	14100-1212	20242813	3/4	3/4-14	32	0.72	18.2	2.27	57.6

C=Crimp Nut (See Fitting Identification in Appendix for more information.)

# DIN 24° Light

Female / Swivel



Part Number	Product Number	SAP Number							
			Hose ID	Thread Size (A)	Hex 1 Wrench Size	Cut-Off (C)		Length (L)	
			in.		mm	in.	mm	in.	mm
B2-DLFX-0412 <sup>T</sup>	14240-0412	20241852	1/4	12x1.5	14	1.07	27.2	2.05	52.0
B2-DLFX-0414	14240-0414	20241837	1/4	14x1.5	17	1.02	25.9	2.00	50.8
B2-DLFX-0416	14240-0416	20241845	1/4	16x1.5	19	1.08	27.4	2.06	52.2
B2-DLFX-0516	14240-0516	20873166	5/16	16x1.5	19	1.167	29.7	2.147	54.6
B2-DLFX-0518	14240-0518	20873167	5/16	18x1.5	22	1.082	27.4	2.062	52.2
B2-DLFX-0616	14240-0616	20241842	3/8	16x1.5	19	2.21	56.2	2.26	57.5
B2-DLFX-0618	14240-0618	20241843	3/8	18x1.5	22	1.08	27.5	2.13	54.2
B2-DLFX-0622	14240-0622	20782409	3/8	22x1.5	27	1.18	30.0	2.23	56.7
B2-DLFX-0822	14240-0822	20241859	1/2	22x1.5	27	1.21	30.7	2.46	62.4
B2-DLFX-1026	14240-1026	20241844	5/8	26x1.5	32	1.24	31.5	2.60	65.9
B2-DLFX-1230	14240-1230	20241840	3/4	30x2.0	36	1.42	36.0	2.97	75.4
B2-DLFX-1636	14240-1636	20241871	1	36x2.0	41	1.49	37.9	3.27	83.0
B2-DLFX-2045	28240-2045	20241857	1 1/4	45x2.0	50	1.74	44.1	3.78	96.1
B2-DLFX-2452	28240-2452	20441314	1 1/2	52x2.0	60	1.74	44.1	4.07	103.3

T=Thrust-Wire Nut (See Fitting Identification in Appendix for more information.)

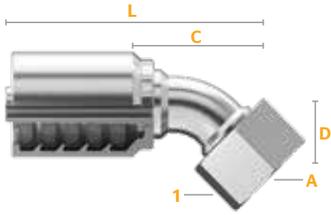


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**Section 1**  
B2 Fittings

**FITTINGS**

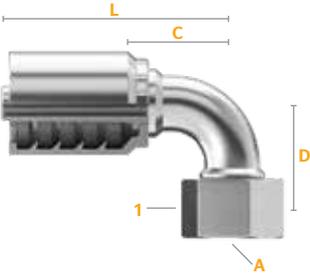




## DIN 24° Light

Female / 45° Elbow / Swivel

Part Number	Product Number	SAP Number									
			Hose ID	Thread Size (A)	Hex 1 Wrench Size	Drop (D)	in.	mm	in.	mm	in.
B2-DLFX45-0414	14245-0414	20241855	1/4	14x1.5	17	0.69	17.5	1.69	42.9	2.67	67.8
B2-DLFX45-0416	14245-0416	20241860	1/4	16x1.5	19	0.79	20.1	1.65	41.9	2.63	66.8
B2-DLFX45-0516	14245-0516	20873168	5/16	16x1.5	19	0.71	18.0	1.69	42.9	2.67	67.8
B2-DLFX45-0518	14245-0518	20873169	5/16	18x1.5	22	0.77	19.6	1.848	47.0	2.828	71.9
B2-DLFX45-0616	14245-0616	20441216	3/8	16x1.5	19	0.71	18.0	1.73	43.9	2.78	70.6
B2-DLFX45-0618	14245-0618	20241862	3/8	18x1.5	22	0.77	19.6	1.85	47.0	2.90	73.6
B2-DLFX45-0622	14245-0622	20782411	3/8	22x1.5	27	0.83	21.1	2.14	54.5	3.19	81.1
B2-DLFX45-0822	14245-0822	20241858	1/2	22x1.5	27	0.83	21.1	2.17	55.1	3.42	86.8
B2-DLFX45-1026	14245-1026	20241863	5/8	26x1.5	32	0.94	23.9	2.56	65.0	3.92	99.5
B2-DLFX45-1230	14245-1230	20241861	3/4	30x2.0	36	1.26	32.0	2.72	69.1	4.27	108.5
B2-DLFX45-1636	14245-1636	20241856	1	36x2.0	41	1.26	32.0	3.58	90.9	5.36	136.0
B2-DLFX45-2452	28245-2452	20588801	1 1/2	52x2.0	60	1.85	47.0	4.49	114.0	6.816	173.1



## DIN 24° Light

Female / 90° Elbow / Swivel

Part Number	Product Number	SAP Number									
			Hose ID	Thread Size (A)	Hex 1 Wrench Size	Drop (D)	in.	mm	in.	mm	in.
B2-DLFX90-0412	14250-0412	20241866	1/4	12x1.5	14	1.02	25.9	1.14	29.0	2.12	53.8
B2-DLFX90-0414	14250-0414	20241867	1/4	14x1.5	17	1.28	32.5	1.10	27.9	2.08	52.8
B2-DLFX90-0416	14250-0416	20241868	1/4	16x1.5	19	1.28	32.5	1.10	27.9	2.08	52.8
B2-DLFX90-0516	14250-0516	20873170	5/16	16x1.5	19	1.38	35.1	1.3	33.0	2.28	57.9
B2-DLFX90-0518	14250-0518	20873171	5/16	18x1.5	22	1.54	39.1	1.3	33.0	2.278	57.9
B2-DLFX90-0616	14250-0616	20289910	3/8	16x1.5	19	1.42	36.1	1.18	30.0	2.23	56.6
B2-DLFX90-0618	14250-0618	20241870	3/8	18x1.5	22	1.54	39.1	1.30	33.0	2.35	59.7
B2-DLFX90-0622	14250-0622	20782412	3/8	22x1.5	27	1.59	40.4	1.54	39.2	2.59	65.9
B2-DLFX90-0822	14250-0822	20241865	1/2	22x1.5	27	1.59	40.4	1.57	39.9	2.82	71.6
B2-DLFX90-1026	14250-1026	20241853	5/8	26x1.5	32	1.89	48.0	2.01	51.1	3.37	85.5
B2-DLFX90-1230	14250-1230	20241869	3/4	30x2.0	36	2.32	58.9	2.05	52.1	3.60	91.5

Continued on the next page.

### FITTINGS



### Section 1 B2 Fittings

**COMPATIBLE HOSE:**

- |       |       |        |        |      |       |           |
|-------|-------|--------|--------|------|-------|-----------|
| SR1SN | SR2SN | LR16SC | DR16SC | ACP3 | SR12  | ARC16SC   |
| DR1SN | DR2SN | LCP3   | XR16SC | XCP3 | ARC12 | Hot Oiler |
| SFS   | LR2SN | SR16SC | SCP3   | XCP4 |       |           |

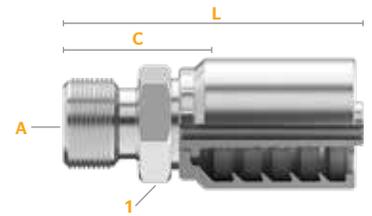
For a detailed list, please refer to your Crimp Specifications Manual.

DIN 24° Light (Female 90°) Continued

Part Number	Product Number	SAP Number	Hose ID	Thread Size (A)	Hex 1 Wrench Size	Drop (D)		Cut-Off (C)		Length (L)	
			in.		mm	in.	mm	in.	mm	in.	mm
B2-DLFX90-1636	14250-1636	20241864	1	36x2.0	41	2.68	68.1	3.07	78.0	4.85	123.1
B2-DLFX90-2045	28250-2045	20241872	1 ¼	45x2.0	50	3.50	88.9	3.54	89.9	5.59	141.9
B2-DLFX90-2452	28250-2452	20588800	1 ½	52x2.0	60	3.84	97.5	4.21	107.0	6.54	166.1
B2-DLFX90XL-2452	28250-2452XL	20793531	1 ½	52x2.0	60	8.50	215.9	4.11	104.4	6.60	167.7

## DIN 24° Light

Male



Part Number	Product Number	SAP Number	Hose ID	Thread Size (A)	Hex 1 Wrench Size	Cut-Off (C)		Length (L)	
			in.		mm	in.	mm	in.	mm
B2-DLM-0412	14255-0412	20241847	1/4	12x1.5	14	0.84	21.4	1.82	46.3
B2-DLM-0414	14255-0414	20241848	1/4	14x1.5	14	0.84	21.4	1.82	46.3
B2-DLM-0416	14255-0416	20241849	1/4	16x1.5	17	0.92	23.4	1.90	48.3
B2-DLM-0616	14255-0616	20241850	3/8	16x1.5	17	0.93	23.6	1.98	50.2
B2-DLM-0618	14255-0618	20241838	3/8	18x1.5	19	0.96	24.4	2.01	51.1
B2-DLM-0622	14255-0622	20274103	3/8	22x1.5	22	1.00	25.4	2.05	52.1
B2-DLM-0822	14255-0822	20241846	1/2	22x1.5	22	1.02	26.0	2.27	57.6
B2-DLM-1026	14255-1026	20241851	5/8	26x1.5	27	1.07	27.1	2.42	61.6
B2-DLM-1226	14255-1226	20959262	3/4	26x1.5	27	1.087	27.7	2.64	67.1
B2-DLM-1230	14255-1230	20241854	3/4	30x2.0	32	1.24	31.5	2.79	70.9
B2-DLM-1636	14255-1636	20241839	1	36x2.0	36	1.34	34.1	3.12	79.1

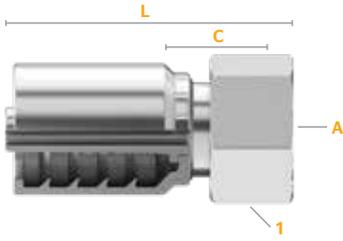


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### Section 1 B2 Fittings

## FITTINGS





## DIN 24° Heavy

Female / Swivel

Part Number	Product Number	SAP Number							
			Hose ID	Thread Size (A)	Hex 1 Wrench Size	Cut-Off (C)		Length (L)	
			in.		mm	in.	mm	in.	mm
B2-DHFX-0416	14210-0416	20241801	1/4	16x1.5	19	1.20	30.5	2.18	55.4
B2-DHFX-0418	14210-0418	20241805	1/4	18x1.5	22	1.21	30.8	2.19	55.7
B2-DHFX-0518	14210-0518	20873159	5/16	18x1.5	22	1.262	32.0	2.242	56.9
B2-DHFX-0520	14210-0520	20873160	5/16	20x1.5	24	1.285	32.8	2.265	57.7
B2-DHFX-0618	14210-0618	20293217	3/8	18x1.5	22	1.23	31.3	2.28	57.9
B2-DHFX-0620	14210-0620	20241796	3/8	20x1.5	24	1.21	30.8	2.26	57.4
B2-DHFX-0622	14210-0622	20241803	3/8	22x1.5	27	1.42	36.2	2.47	62.8
B2-DHFX-0624	14210-0624	20790636	3/8	24x1.5	30	1.411	35.8	2.46	62.5
B2-DHFX-0820	14210-0820	20441214	1/2	20x1.5	24	1.24	31.4	2.48	63.0
B2-DHFX-0824	14210-0824	20241815	1/2	24x1.5	30	1.44	36.5	2.68	68.2
B2-DHFX-1030	14210-1030	20241807	5/8	30x2.0	36	1.64	41.7	2.99	76.0
B2-DHFX-1230 <sup>T</sup>	14210-1230	20241800	3/4	30x2.0	36	1.62	41.0	3.17	80.5
B2-DHFX-1236	14210-1236	20241799	3/4	36x2.0	46	1.89	47.9	3.44	87.4
B2-DHFX-1636	14210-1636	20864304	1	36x2.0	46	1.875	47.9	3.65	92.7
B2-DHFX-1642	14210-1642	20241830	1	42x2.0	50	1.88	47.9	3.66	92.9
B2-DHFX-2042	28210-2042	20241721	1 ¼	42x2.0	50	1.96	49.8	4.01	101.8
B2-DHFX-2052	28210-2052	20241818	1 ¼	52x2.0	60	2.20	55.8	4.24	107.7

<sup>T</sup>=Thrust-Wire Nut (See Fitting Identification in Appendix for more information.)

## FITTINGS



### Section 1

B2 Fittings

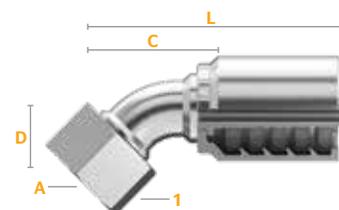
#### COMPATIBLE HOSE:

SR1SN	SR2SN	LR16SC	DR16SC	ACP3	SR12	ARC16SC
DR1SN	DR2SN	LCP3	XR16SC	XCP3	ARC12	Hot Oiler
SFS	LR2SN	SR16SC	SCP3	XCP4		

For a detailed list, please refer to your Crimp Specifications Manual.

# DIN 24° Heavy

Female / 45° Elbow / Swivel



Part Number	Product Number	SAP Number									
			Hose ID	Thread Size (A)	Hex 1 Wrench Size	Drop (D)		Cut-Off (C)		Length (L)	
			in.		mm	in.	mm	in.	mm	in.	mm
B2-DHFX45-0416	14215-0416	20441303	1/4	16x1.5	19	0.63	16.0	1.93	49.0	2.91	73.9
B2-DHFX45-0418	14215-0418	20241817	1/4	18x1.5	22	0.75	19.1	1.69	42.9	2.67	67.8
B2-DHFX45-0518	14215-0518	20873161	5/16	18x1.5	22	0.75	19.1	1.695	43.2	2.675	68.1
B2-DHFX45-0520	14215-0520	20873162	5/16	20x1.5	24	0.79	20.1	2.008	51.1	2.988	75.9
B2-DHFX45-0620	14215-0620	20241821	3/8	20x1.5	24	0.79	20.1	2.01	51.1	3.06	77.7
B2-DHFX45-0622	14215-0622	20241822	3/8	22x1.5	27	0.83	21.1	2.09	53.1	3.14	79.7
B2-DHFX45-0624	14214-0624	20790638	3/8	24x1.5	30	0.85	21.6	2.174	55.2	3.223	81.9
B2-DHFX45-0824	14215-0824	20241819	1/2	24x1.5	30	0.85	21.6	2.20	55.9	3.45	87.6
B2-DHFX45-1030	14215-1030	20241823	5/8	30x2.0	36	1.18	30.0	2.60	66.0	3.96	100.5
B2-DHFX45-1236	14215-1236	20241820	3/4	36x2.0	46	1.30	33.0	2.72	69.1	4.27	108.5
B2-DHFX45-1642	14215-1642	20241828	1	42x2.0	50	1.59	40.4	4.33	110.0	6.11	155.1
B2-DHFX45-2052	14215-2052	20864303	1 1/4	52x2.0	60	1.551	39.4	3.826	97.3	5.872	149.1

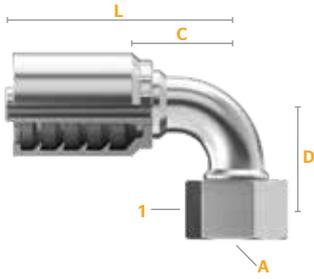


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**Section 1**  
B2 Fittings

**FITTINGS**





## DIN 24° Heavy

Female / 90° Elbow / Swivel

Part Number	Product Number	SAP Number									
			Hose ID	Thread Size (A)	Hex 1 Wrench Size	Drop (D)		Cut-Off (C)		Length (L)	
			in.		mm	in.	mm	in.	mm	in.	mm
B2-DHFX90-0416	14220-0416	20477376	1/4	16x1.5	19	1.30	33.0	1.26	32.0	2.24	56.9
B2-DHFX90-0418	14220-0418	20241829	1/4	18x1.5	22	1.34	34.0	1.06	26.9	2.04	51.8
B2-DHFX90-0518	14220-0518	20873163	5/16	18x1.5	22	1.34	34.0	1.065	27.2	2.045	52.1
B2-DHFX90-0520	14220-0520	20873164	5/16	20x1.5	24	1.52	38.6	1.338	34.0	2.318	58.9
B2-DHFX90-0618	14220-0618	20441215	3/8	18x1.5	22	1.34	34.0	1.18	30.0	2.23	56.6
B2-DHFX90-0620	14220-0620	20241797	3/8	20x1.5	24	1.52	38.6	1.34	34.0	2.39	60.7
B2-DHFX90-0622	14220-0622	20241835	3/8	22x1.5	27	1.59	40.4	1.34	34.0	2.39	60.7
B2-DHFX90-0624	14220-0624	20790639	3/8	24x1.5	30	1.63	41.4	1.544	39.1	2.593	65.8
B2-DHFX90-0824	14220-0824	20241825	1/2	24x1.5	30	1.63	41.4	1.57	39.9	2.82	71.6
B2-DHFX90XL-0824	14224-0824	20790664	1/2	24x1.5	30	3.15	80.0	1.969	50.0	3.216	81.8
B2-DHFX90-1030	14220-1030	20241832	5/8	30x2.0	36	2.17	55.1	1.97	50.0	3.33	84.5
B2-DHFX90L-1030	14224-1030	20873227	5/8	30x2.0	36	3.15	80.0	1.968	50.0	3.325	84.5
B2-DHFX90-1230	14220-1230	20873165	3/4	30x2.0	46	2.28	57.9	2.01	51.1	3.563	90.5
B2-DHFX90-1236	14220-1236	20241836	3/4	36x2.0	46	2.34	59.4	2.01	51.1	3.56	90.5
B2-DHFX90-1636	14220-1636	20864305	1	36x2.0	50	2.48	63.0	2.56	66.0	4.335	110.2
B2-DHFX90-1642	14220-1642	20241824	1	42x2.0	50	3.11	79.0	2.99	75.9	4.77	121.0
B2-DHFX90-2052	28220-2052	20265706	1 1/4	52x2.0	60	3.62	91.9	3.70	94.0	5.75	145.9

## FITTINGS



## Section 1

B2 Fittings

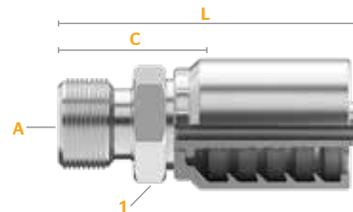
### COMPATIBLE HOSE:

SR1SN	SR2SN	LR16SC	DR16SC	ACP3	SR12	ARC16SC
DR1SN	DR2SN	LCP3	XR16SC	XCP3	ARC12	Hot Oiler
SFS	LR2SN	SR16SC	SCP3	XCP4		

For a detailed list, please refer to your Crimp Specifications Manual.

## DIN 24° Heavy

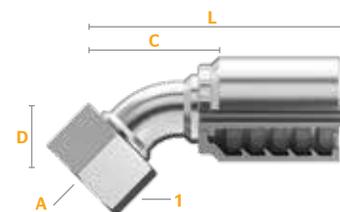
Male



Part Number	Product Number	SAP Number							
			Hose ID	Thread Size (A)	Hex 1 Wrench Size	Cut-Off (C)	Length (L)	in.	mm
			in.		mm	in.	mm	in.	mm
B2-DHM-0416	14225-0416	20241810	1/4	16x1.5	17	0.95	24.2	1.93	49.1
B2-DHM-0418	14225-0418	20241811	1/4	18x1.5	19	0.99	25.2	1.97	50.1
B2-DHM-0620	14225-0620	20241813	3/8	20x1.5	22	1.00	25.4	2.05	52.1
B2-DHM-0622	14225-0622	20241804	3/8	22x1.5	22	1.08	27.4	2.13	54.1
B2-DHM-0824	14225-0824	20241809	1/2	24x1.5	24	1.14	29.0	2.39	60.7
B2-DHM-1030	14225-1030	20241814	5/8	30x2.0	32	1.31	33.1	2.66	67.6
B2-DHM-1230	14225-1230	20241812	3/4	30x2.0	32	1.33	33.7	2.88	73.1
B2-DHM-1236	14225-1236	20241816	3/4	36x2.0	36	1.48	37.7	3.04	77.1
B2-DHM-1642	14225-1642	20241808	1	42x2.0	46	1.66	42.1	3.43	87.2
B2-DHM-2052	14225-2052	20864302	1 1/4	52x2.0	55	1.875	47.8	3.921	99.6

## DIN 60°

Female / 45° Elbow / Swivel



Part Number	Product Number	SAP Number									
			Hose ID	Thread Size (A)	Hex 1 Wrench Size	Drop (D)	Cut-Off (C)	Length (L)	in.	mm	
			in.		mm	in.	mm	in.	mm	in.	mm
B2-DNFX45-0414	14275-0414	20241882	1/4	14x1.5	17	0.63	16.0	1.38	35.1	2.36	59.9
B2-DNFX45-0416	14275-0416	20241881	1/4	16x1.5	19	0.67	17.0	1.42	36.1	2.40	61.0
B2-DNFX45-0618	14275-0618	20241873	3/8	18x1.5	22	0.77	19.6	1.69	42.9	2.74	69.6
B2-DNFX45-0822	14275-0822	20241879	1/2	22x1.5	27	0.79	20.1	2.17	55.1	3.42	86.8
B2-DNFX45-1026	14275-1026	20241880	5/8	26x1.5	32	1.02	25.9	2.44	62.0	3.80	96.4

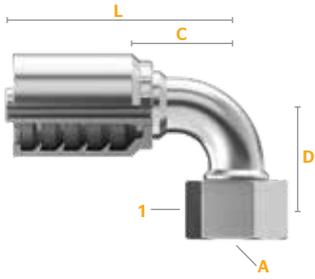


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**Section 1**  
B2 Fittings

**FITTINGS**



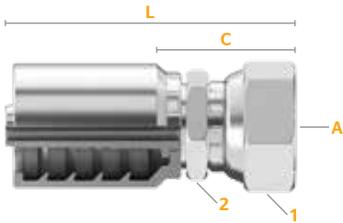


## DIN 60°

Female / 90° Elbow / Swivel



Part Number	Product Number	SAP Number	Hose ID	Thread Size (A)	Hex 1 Wrench Size	Drop (D)		Cut-Off (C)		Length (L)	
			in.		mm	in.	mm	in.	mm	in.	mm
B2-DNFX90-0414	14280-0414	20241878	1/4	14x1.5	17	1.28	32.5	1.18	30.0	2.16	54.9
B2-DNFX90-0416	14280-0416	20241877	1/4	16x1.5	19	1.28	32.5	1.10	27.9	2.08	52.8
B2-DNFX90-0616	14280-0616	20241876	3/8	16x1.5	19	1.26	32.0	1.18	30.0	2.23	56.6
B2-DNFX90-0618	14280-0618	20241875	3/8	18x1.5	22	1.46	37.1	1.30	33.0	2.44	62.0
B2-DNFX90-0822	14280-0822	20241883	1/2	22x1.5	27	1.57	39.9	1.57	39.9	2.82	71.6
B2-DNFX90-1026	14280-1026	20241874	5/8	26x1.5	32	1.85	47.0	2.05	52.1	3.41	86.5



## Komatsu® 30° Flare with Metric Threads

Female / Swivel



Part Number	Product Number	SAP Number	Hose ID	Thread Size (A)	Hex 1 Wrench Size	Hex 2 Wrench Size	Cut-Off (C)		Length (L)	
			in.		mm	mm	in.	mm	in.	mm
B2-KMFX-0414	14545-0414	20241888	1/4	14x1.5	19	17	1.22	30.9	2.20	55.8
B2-KMFX-0618	14545-0618	20241894	3/8	18x1.5	22	19	1.26	32.1	2.31	58.7
B2-KMFX-0822	14545-0822	20241891	1/2	22x1.5	27	22	1.38	35.2	2.63	66.8
B2-KMFX-1024	14545-1024	20241886	5/8	24x1.5	32	30	1.66	42.2	3.02	76.6
B2-KMFX-1230	14545-1230	20241884	3/4	30x1.5	36	30	1.84	46.7	3.39	86.1
B2-KMFX-1633	14545-1633	20241893	1	33x1.5	41	36	2.24	56.9	4.02	102.0
B2-KMFX-2036	28545-2036	20241889	1 ¼	36x1.5	46	46	2.50	63.6	4.55	115.5
B2-KMFX-2442	28545-2442	20241890	1 ½	42x1.5	55	55	2.63	66.9	4.96	126.0

## FITTINGS



### Section 1

B2 Fittings

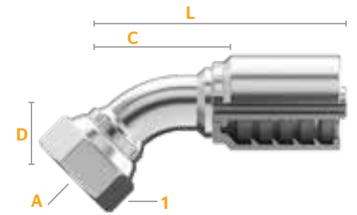
#### COMPATIBLE HOSE:

SR1SN SR2SN LR16SC DR16SC ACP3 SR12 ARC16SC  
 DR1SN DR2SN LCP3 XR16SC XCP3 ARC12 Hot Oiler  
 SFS LR2SN SR16SC SCP3 XCP4

For a detailed list, please refer to your Crimp Specifications Manual.

## Komatsu® 30° Flare with Metric Threads

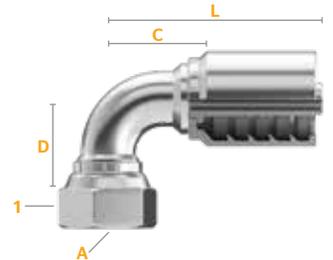
Female / 45° Elbow / Swivel



Part Number	Product Number	SAP Number									
			Hose ID	Thread Size (A)	Hex 1 Wrench Size	Drop (D)	Cut-Off (C)	Length (L)			
			in.		mm	in.	mm	in.	mm	in.	mm
B2-KMFX45-0414	14548-0414	20293383	1/4	14x1.5	19	0.61	15.5	1.50	38.1	2.48	63.0
B2-KMFX45-0618	14548-0618	20293384	3/8	18x1.5	22	0.71	18.0	1.73	43.9	2.78	70.6
B2-KMFX45-0822	14548-0822	20293385	1/2	22x1.5	27	1.16	29.5	2.20	55.9	3.45	87.6
B2-KMFX45-1024	14548-1024	20293386	5/8	24x1.5	32	1.32	33.5	2.27	57.7	4.08	103.6
B2-KMFX45-1230	14548-1230	20293387	3/4	30x1.5	36	1.67	42.4	3.11	79.0	4.66	118.4
B2-KMFX45-1633	14548-1633	20293388	1	33x1.5	41	2.52	64.0	4.69	119.1	6.47	164.2

## Komatsu® 30° Flare with Metric Threads

Female / 90° Elbow / Swivel



Part Number	Product Number	SAP Number									
			Hose ID	Thread Size (A)	Hex 1 Wrench Size	Drop (D)	Cut-Off (C)	Length (L)			
			in.		mm	in.	mm	in.	mm	in.	mm
B2-KMFX90-0414	14550-0414	20293389	1/4	14x1.5	19	1.16	29.5	1.30	33.0	2.28	57.9
B2-KMFX90-0822	14550-0822	20293391	1/2	22x1.5	27	2.09	53.1	1.74	44.1	2.98	75.8
B2-KMFX90-1024	14550-1024	20293392	5/8	24x1.5	32	2.44	62.0	1.97	50.0	3.33	84.5
B2-KMFX90-1230	14550-1230	20293393	3/4	30x1.5	36	2.99	75.9	2.05	52.1	3.60	91.5
B2-KMFX90-1633	14550-1633	20293394	1	33x1.5	41	4.49	114.0	3.11	79.0	4.89	124.1

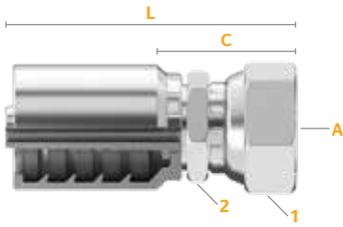


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**Section 1**  
B2 Fittings

**FITTINGS**



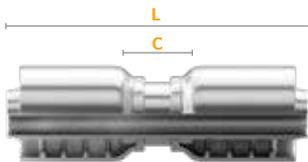


## JIS 30° (Parallel Pipe Threads)

Female / Swivel

Part Number	Product Number	SAP Number								
			Hose ID	Thread Size (A)	Hex 1 Wrench Size	Hex 2 Wrench Size	Cut-Off (C)	Length (L)	in.	mm
B2-JSFX-0404	14520-0404	20242055	in.		mm	mm	in.	mm	in.	mm
B2-JSFX-0404	14520-0404	20242055	1/4	1/4-19	19	17	1.22	30.9	2.20	55.8
B2-JSFX-0406	14520-0406	20833308	1/4	3/8-19	22	17	0.85	21.6	1.83	46.5
B2-JSFX-0606	14520-0606	20242058	3/8	3/8-19	22	19	1.26	32.1	2.31	58.7
B2-JSFX-0608	14520-0608	20833308	3/8	1/2-14	27	22	0.90	22.9	1.95	49.5
B2-JSFX-0808	14520-0808	20242057	1/2	1/2-14	27	22	1.39	35.2	2.63	66.9
B2-JSFX-1012	14520-1012	20293229	5/8	3/4-14	36	30	1.56	39.7	2.92	74.1
B2-JSFX-1212	14520-1212	20242054	3/4	3/4-14	36	30	1.58	40.2	3.14	79.6
B2-JSFX-1616	14520-1616	20242052	1	1-11	41	36	1.87	47.5	3.65	92.6
B2-JSFX-2020 <sup>T</sup>	28520-2020	20241722	1 1/4	1 1/4-11	50	46	2.16	54.9	4.21	106.9

<sup>T</sup>=Thrust-Wire Nut (See Fitting Identification in Appendix for more information.)



## Hose Joiner

Part Number	Product Number	SAP Number						
			Hose ID	in.	mm	in.	mm	in.
B2-HJ-0404	14840-0404	20960641	1/4	0.71	18.0	1.69	42.9	
B2-HJ-0505	14840-0505	20960642	5/16	0.87	22.1	1.92	48.8	
B2-HJ-0606	14840-0606	20960643	3/8	1.10	27.9	2.41	61.2	
B2-HJ-0808	14840-0808	20960644	1/2	0.63	15.9	2.59	65.7	
B2-HJ-1010	14840-1010	20960645	5/8	0.63	15.9	2.59	65.7	
B2-HJ-1212	14840-1212	20960646	3/4	0.63	15.9	2.72	69.2	
B2-HJ-1616	14840-1616	20960647	1	0.75	19.1	3.24	82.4	
B2-HJ-2020	28840-2020	20960648	1 1/4	0.75	19.1	3.46	88.0	
B2-HJ-2424	28840-2424	20960649	1 1/2	0.75	19.1	3.86	98.0	
B2-HJ-3232	28840-3232	20960650	2	1.00	25.4	4.55	115.6	

## FITTINGS



## Section 1

B2 Fittings

### COMPATIBLE HOSE:

SR1SN SR2SN LR16SC DR16SC ACP3 SR12 ARC16SC  
 DR1SN DR2SN LCP3 XR16SC XCP3 ARC12 Hot Oiler  
 SFS LR2SN SR16SC SCP3 XCP4

For a detailed list, please refer to your Crimp Specifications Manual.

# SECTION 2 - SG FITTINGS

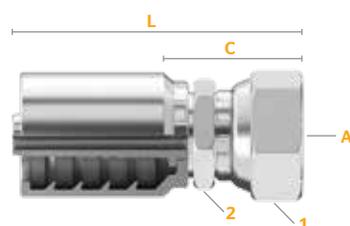
This section lists all fittings compatible with the following hose:

Hose	Description	Compatible Dash Size	Hose	Description	Compatible Dash Size
SR12	SAE 110R12 / EN 856 R12	Hose dash sizes below -24	LCP6S	SAE 100R15 / EN 857 4SP	All hose dash sizes
ARC12	SAE 100R12 / EN 856 R12	Hose dash sizes below -24	S4SP	EN 856 4SP / DIN 20023 4SP	All hose dash sizes
SR13	SAE 100R13 / EN 856 R13	Hose dash sizes below -24	S4SH	EN 856 4SH / DIN 20023 4SH	All hose dash sizes
ARC13	SAE 100R13	Hose dash sizes below -24	XCP3S	SAE 100R12	All hose dash sizes
SR15	SAE 100R15	Hose dash sizes below -24	XCP4S	SAE 100R12	All hose dash sizes
ARC15	SAE 100R15	Hose dash sizes below -20	XCP5S	SAE 100R13	Hose dash sizes below -24
LCP4S	SAE 100R12 / EN 856 4SH	All hose dash sizes	XCP6S	SAE 100R15	Hose dash sizes below -24

## How to Use the Fittings Table

The fittings in this section will follow a similar table structure to the one seen on this page.

Fitting dimensions and attributes are explained below.



## Fitting Name

Fitting Description

Part Number	Product Number	SAP Number										
			Hose ID	Thread Size (A)	Hex 1 Wrench Size	Hex 2 Wrench Size	Cut-Off (C)	Length (L)				
			in.		in.	mm	in.	mm	in.	mm	in.	mm
SG-JCFX-0606	29400-0606	20758248	3/8	9/16-18	3/4	19	11/16	17	1.32	33.6	2.78	70.6
SG-JCFX-0808	29400-0808	20753008	1/2	3/4-16	1	25	3/4	19	1.09	27.7	2.63	66.7
SG-JCFX-1010	29400-1010	20822050	5/8	7/8-14	1 1/16	27	15/16	24	1.76	44.8	3.36	85.3

### Fitting Dimensions and Attributes

**Part Number** See Hydraulic Fittings Nomenclature on page 128 for a breakdown of part number attributes

**Hose ID** The compatible Hose ID

**Tube ID** The compatible Tube ID

**Thread Size** The thread size or sizes available for a particular fitting dash size (indicated by **A** in the fitting image)

**Hex Size** The wrench size for one or both nuts on the fitting (indicated by **1** or **2** in the fitting image)

**Drop** The length of the elbow (indicated by **D** in the fitting image)

**Cut-Off** The amount of hose to be cut for a correct assembly length (indicated by **C** in the fitting image)

**Length** The overall length of the fitting

**Skive Type** For applicable fittings, a skive type will be indicated as Skive, Non-Skive or Dual-Grip

Choose fittings carefully, considering the working pressure of both the hose and fitting. The maximum working pressure of the hose assembly is the lesser of the rated working pressure of the hose and the fitting. See page 333 for the Fittings Working Pressure Guide.



Download the **MyCrimp App** for more information.

**Section 2**  
SG Fittings

**FITTINGS**



# SG Fittings Overview

A complete overview of all SG fittings found in this section.

<p><b>JIC 37° Flare (SAE J514)</b> Female Swivel</p>  <p>SG-JCFX P. 183</p>	<p><b>JIC 37° Flare (SAE J514)</b> Female 45° Elbow Swivel</p>  <p>SG-JCFX45 P. 184</p>	<p><b>JIC 37° Flare (SAE J514)</b> Female 90° Elbow Swivel</p>  <p>SG-JCFX90 P. 184</p>	<p><b>JIC 37° Flare (SAE J514)</b> Female 90° Block Elbow Swivel</p>  <p>SG-JCFX90B P. 186</p>
<p><b>JIC 37° Flare (SAE J514)</b> Male</p>  <p>SG-JCM P. 186</p>	<p><b>NPTF</b> Female</p>  <p>SG-NPF P. 187</p>	<p><b>NPTF</b> Male</p>  <p>SG-NPFX P. 187</p>	<p><b>NPT API</b> Male</p>  <p>SG-NPTAPI P. 188</p>
<p><b>NPTF</b> Male Swivel</p>  <p>SG-NPMX P. 188</p>	<p><b>NPSM</b> Female Swivel</p>  <p>SG-NSFX P. 188</p>	<p><b>Standpipe</b></p>  <p>SG-SP P. 189</p>	<p><b>O-Ring Face Seal (SAE J1453 ORS/ORFS)</b> Female Swivel</p>  <p>SG-OFFX P. 189</p>
<p><b>O-Ring Face Seal (SAE J1453 ORS/ORFS)</b> Female 45° Elbow Swivel</p>  <p>SG-OFFX45 P. 190</p>	<p><b>O-Ring Face Seal (SAE J1453 ORS/ORFS)</b> Female 90° Elbow Swivel</p>  <p>SG-OFFX90 P. 190</p>	<p><b>O-Ring Face Seal (SAE J1453 ORS/ORFS)</b> Male</p>  <p>SG-OFM P. 192</p>	<p><b>O-Ring Boss Straight Thread (SAE J514)</b> Male</p>  <p>SG-OBM P. 192</p>
<p><b>Code 61 Flange (SAE J518)</b></p>  <p>SG-FL P. 193</p>	<p><b>Code 61 Flange (SAE J518)</b> 22.5° Elbow</p>  <p>SG-FL22 P. 193</p>	<p><b>Code 61 Flange (SAE J518)</b> 30° Elbow</p>  <p>SG-FL30 P. 194</p>	<p><b>Code 61 Flange (SAE J518)</b> 45° Elbow</p>  <p>SG-FL45 P. 194</p>
<p><b>Code 61 Flange (SAE J518)</b> 60° Elbow</p>  <p>SG-FL60 P. 195</p>	<p><b>Code 61 Flange (SAE J518)</b> 67° Elbow</p>  <p>SG-FL67 P. 196</p>	<p><b>Code 61 Flange (SAE J518)</b> 90° Elbow</p>  <p>SG-FL90 P. 196</p>	<p><b>Code 61 Flange (SAE J518)</b> 110° Elbow</p>  <p>SG-FL110 P. 197</p>
<p><b>Code 61 Flange (SAE J518)</b> 135° Elbow</p>  <p>SG-FL135 P. 198</p>	<p><b>Code 62 Flange (SAE J518)</b></p>  <p>SG-FH P. 198</p>	<p><b>Code 62 Flange (SAE J518)</b> 22.5° Elbow</p>  <p>SG-FH22 P. 199</p>	<p><b>Code 62 Flange (SAE J518)</b> 30° Elbow</p>  <p>SG-FH30 P. 199</p>

**COMPATIBLE HOSE:**

SR12	ARC12	LCP4S	S4SH	XCP5S
SR13	ARC13	LCP6S	XCP3S	XCP6S
SR15	ARC15	S4SP	XCP4S	

For a detailed list, please refer to your Crimp Specifications Manual.

# SG Fittings Overview

A complete overview of all SG fittings found in this section.

## Code 62 Flange (SAE J518)

45° Elbow



SG-FH45

P. 200

## Code 62 Flange (SAE J518)

60° Elbow



SG-FH60

P. 200

## Code 62 Flange (SAE J518)

67° Elbow



SG-FH67

P. 201

## Code 62 Flange (SAE J518)

90° Elbow



SG-FH90

P. 201

## Caterpillar® Flange



SG-CF

P. 202

## Caterpillar® Flange

22.5° Elbow



SG-CF22

P. 202

## Caterpillar® Flange

30° Elbow



SG-CF30

P. 203

## Caterpillar® Flange

45° Elbow



SG-CF45

P. 203

## Caterpillar® Flange

60° Elbow



SG-CF60

P. 204

## Caterpillar® Flange

67° Elbow



SG-CF67

P. 204

## Caterpillar® Flange

90° Elbow



SG-CF90

P. 205

## IHUF Hammer Union



SG-IHUF

P. 205

## IHUM Hammer Union



SG-IHUM

P. 205

## Komatsu® Flange



SG-KF

P. 206

## Komatsu® Flange

45° Elbow



SG-KF45

P. 206

## Komatsu® Flange

90° Elbow



SG-KF90

P. 206

## BSPP (British Standard Pipe Parallel)

Female Swivel



SG-BPFX

P. 207

## BSPP (British Standard Pipe Parallel)

Female 45° Elbow Swivel



SG-BPFX45

P. 207

## BSPP (British Standard Pipe Parallel)

Female 90° Elbow Swivel



SG-BPFX90

P. 208

## BSPP (British Standard Pipe Parallel)

Male



SG-BPM

P. 208

## BSPT (British Standard Pipe Tapered)

Male



SG-BTM

P. 209

## BSP Flat Seat (British Standard Pipe)

Female Swivel



SG-BFFX

P. 209

## DIN 24° Light

Female Swivel



SG-DLFX

P. 209

## DIN 24° Light

Female 45° Elbow Swivel



SG-DLFX45

P. 210

## DIN 24° Light

Female 90° Elbow Swivel



SG-DLFX90

P. 210

## DIN 24° Light

Male



SG-DLM

P. 211

## DIN 24° Heavy

Female Swivel



SG-DHFX

P. 211

## DIN 24° Heavy

Female 45° Elbow Swivel



SG-DHFX45

P. 212



Download the **MyCrimp App** for more information.

**Section 2**  
SG Fittings

**FITTINGS**



# SG Fittings Overview

A complete overview of all SG fittings found in this section.

<p><b>DIN 24° Heavy</b></p> <p>Female 90° Elbow Swivel</p>  <p>SG-DHFX90 P. 213</p>	<p><b>DIN 24° Heavy</b></p> <p>Male</p>  <p>SG-DHM P. 213</p>	<p><b>Komatsu® 30° Flare with Metric Threads</b></p> <p>Female Swivel</p>  <p>SG-KMFX P. 214</p>	<p><b>Komatsu® 30° Flare with Metric Threads</b></p> <p>Female 45° Elbow Swivel</p>  <p>SG-KMFX45 P. 214</p>
<p><b>Komatsu® 30° Flare with Metric Threads</b></p> <p>Female 90° Elbow Swivel</p>  <p>SG-KMFX90 P. 215</p>	<p><b>JIS 30° (Parallel Pipe Threads)</b></p> <p>Female Swivel</p>  <p>SG-JSFX P. 215</p>		

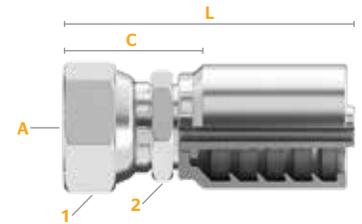
**COMPATIBLE HOSE:**

SR12	ARC12	LCP4S	S4SH	XCP5S
SR13	ARC13	LCP6S	XCP3S	XCP6S
SR15	ARC15	S4SP	XCP4S	

*For a detailed list, please refer to your Crimp Specifications Manual.*

## JIC 37° Flare (SAE J514)

Female / Swivel



Part Number	Product Number	SAP Number										
			Hose ID	Thread Size (A)	Hex 1 Wrench Size	Hex 2 Wrench Size	Cut-Off (C)	Length (L)	in.	mm	in.	mm
SG-JCFX-0604	29400-0604	20822056	3/8	7/16-20	5/8	16	11/16	17	1.27	32.2	2.73	69.2
SG-JCFX-0606	29400-0606	20758248	3/8	9/16-18	3/4	19	11/16	17	1.32	33.6	2.78	70.6
SG-JCFX-0606S	29400-0606S	20822055	3/8	9/16-18	3/4	19	11/16	17	1.32	33.6	2.78	70.6
SG-JCFX-0608	29400-0608	20758284	3/8	3/4-16	1	25	3/4	19	1.09	27.7	2.55	64.7
SG-JCFX-0610	29400-0610	20822054	3/8	7/8-14	1 1/8	27	7/8	22	1.63	41.4	3.09	78.5
SG-JCFX-0806	29400-0806	20822053	1/2	9/16-18	3/4	19	3/4	19	1.36	34.6	2.90	73.6
SG-JCFX-0808	29400-0808	20753008	1/2	3/4-16	1	25	3/4	19	1.09	27.7	2.63	66.7
SG-JCFX-0808S	29400-0808S	20822052	1/2	3/4-16	1	25	3/4	19	1.09	27.7	2.63	66.7
SG-JCFX-0810	29400-0810	20758294	1/2	7/8-14	1 1/8	27	7/8	22	1.64	41.6	3.17	80.6
SG-JCFX-0812 <sup>T</sup>	29400-0812	20758299	1/2	1 1/8-12	1 1/4	32	1	25	1.74	44.2	3.28	83.2
SG-JCFX-1008	29400-1008	20822051	5/8	3/4-16	1	25	15/16	24	1.65	41.9	3.24	82.3
SG-JCFX-1010	29400-1010	20822050	5/8	7/8-14	1 1/8	27	15/16	24	1.76	44.8	3.36	85.3
SG-JCFX-1010S	29400-1010S	20822049	5/8	7/8-14	1 1/8	27	15/16	24	1.76	44.8	3.36	85.3
SG-JCFX-1012T	29400-1012	20822048	5/8	1 1/8-12	1 1/4	32	1	25	1.76	44.7	3.35	85.2
SG-JCFX-1210	29400-1210	20822047	3/4	7/8-14	1 1/8	27	1 1/8	27	1.74	44.2	3.61	91.7
SG-JCFX-1212 <sup>T</sup>	29400-1212	20822046	3/4	1 1/8-12	1 1/4	32	1 1/8	27	1.80	45.7	3.67	93.2
SG-JCFX-1212S <sup>T</sup>	29400-1212S	20822045	3/4	1 1/8-12	1 1/4	32	1 1/8	27	1.80	45.7	3.67	93.2
SG-JCFX-1214	29400-1214	20822044	3/4	1 3/8-12	1 3/8	36	1 1/4	32	1.87	47.5	3.74	95.0
SG-JCFX-1216 <sup>T</sup>	29400-1216	20822043	3/4	1 5/8-12	1 1/2	38	1 1/4	32	1.46	37.1	3.33	84.6
SG-JCFX-1612 <sup>T</sup>	29400-1612	20822042	1	1 5/8-12	1 3/4	32	1 1/4	32	1.42	36.1	3.71	94.1
SG-JCFX-1616 <sup>T</sup>	29400-1616	20822041	1	1 7/8-12	1 1/2	38	1 1/4	32	2.12	53.7	4.40	111.7
SG-JCFX-1616S <sup>T</sup>	29400-1616S	20822040	1	1 7/8-12	1 1/2	38	1 1/4	32	2.12	53.7	4.40	111.7
SG-JCFX-1620 <sup>T</sup>	29400-1620	20822039	1	1 7/8-12	2	50	1 3/8	41	1.62	41.1	3.90	99.1
SG-JCFX-2020	29400-2020	20926505	1 1/4	1 5/8-12	2	50	1 3/8	41	2.38	60.5	5.52	140.2
SG-JCFX-2020S	29400-2020S	20926531	1 1/4	1 5/8-12	2	50	1 3/8	41	2.38	60.5	5.52	140.2
SG-JCFX-2024	29400-2024	20926506	1 1/4	1 7/8-12	2 3/8	55	2	50	2.66	67.6	5.79	147.3
SG-JCFX-2424	29400-2424	20757741	1 1/2	1 7/8-12	2 3/8	55	2	50	2.88	73.1	6.34	161.1
SG-JCFX-2424S	29400-2424S	20873141	1 1/2	1 7/8-12	2 3/8	55	2	50	2.88	73.1	6.34	161.1
SG-JCFX-3232	29400-3232	20833298	2	2 1/2-12	2 3/8	70	2 3/8	65	3.41	86.5	6.95	176.5
SG-JCFX-3232S	29400-3232S	20873142	2	2 1/2-12	2 3/8	70	2 3/8	65	3.41	86.5	6.95	176.5

T=Thrust-Wire Nut S=Stainless Steel (See Fitting Identification in Appendix for more information.)

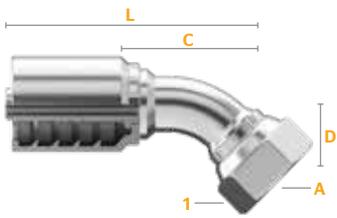


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**Section 2**  
SG Fittings

**FITTINGS**



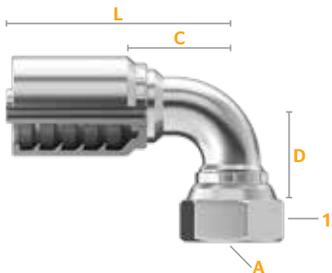


## JIC 37° Flare (SAE J514)

Female / 45° Elbow / Swivel

Part Number	Product Number	SAP Number	Hose ID		Thread Size (A)		Hex 1 Wrench Size		Drop (D)		Cut-Off (C)		Length (L)	
			in.	mm	in.	mm	in.	mm	in.	mm	in.	mm		
SG-JCFX45-0606	29240-0606	20758293	3/8		9/16-18		3/4	19	0.43	11.0	1.81	46.0	3.27	83.0
SG-JCFX45-0608	29240-0608	20822038	3/8		3/4-16		1	25	0.59	15.0	1.85	47.0	3.31	84.0
SG-JCFX45-0808	29240-0808	20758293	1/2		3/4-16		1	25	0.59	15.0	2.08	52.9	3.62	91.9
SG-JCFX45-0810	29240-0810	20822037	1/2		7/8-14		1 1/16	27	0.63	16.0	2.01	51.0	3.54	90.0
SG-JCFX45-1010	29240-1010	20822036	5/8		7/8-14		1 1/16	27	0.63	16.0	1.76	44.8	4.15	105.5
SG-JCFX45-1012 <sup>T</sup>	29240-1012	20822035	5/8		7/8-14		1 1/4	32	0.90	22.9	2.56	65.0	4.15	105.5
SG-JCFX45-1212 <sup>T</sup>	29420-1212	20822034	3/4		1 1/16-12		1 1/4	32	1.08	27.4	2.79	70.8	4.91	124.8
SG-JCFX45-1216	29420-1216	20822033	3/4		1 1/16-12		1 1/2	38	1.02	26.0	2.80	71.0	4.67	118.5
SG-JCFX45-1616 <sup>T</sup>	29420-1616	20822032	1		1 1/16-12		1 1/2	38	1.19	30.1	3.30	83.7	5.58	141.7
SG-JCFX45-1616S <sup>T</sup>	29420-1616S	20822031	1		1 1/16-12		1 1/2	38	1.19	30.1	3.30	83.7	5.58	141.7
SG-JCFX45-1620 <sup>T</sup>	29420-1620	20822030	1		1 1/8-12		2	50	1.25	31.8	3.37	85.6	5.65	143.6
SG-JCFX45-2020	29420-2020	20926507	1 1/4		1 1/8-12		2	50	1.46	37.1	4.09	104.0	7.23	183.6
SG-JCFX45-2424	29420-2424	20757727	1 1/2		1 3/8-12		2 3/16	55	1.56	39.7	4.65	118.1	8.12	206.1

T=Thrust-Wire Nut S=Stainless Steel (See Fitting Identification in Appendix for more information.)



## JIC 37° Flare (SAE J514)

Female / 90° Elbow / Swivel

Part Number	Product Number	SAP Number	Hose ID		Thread Size (A)		Hex 1 Wrench Size		Elbow Type <sup>e</sup>	Drop (D)		Cut-Off (C)		Length (L)	
			in.	mm	in.	mm	in.	mm		in.	mm	in.	mm		
SG-JCFX90-0604	29425-0604	20822029	3/8		7/16-29		5/8	16		1.26	32.0	1.38	35.0	2.84	72.0
SG-JCFX90L-0604	29440-0604	20822018	3/8		7/16-29		5/8	16	LT	1.81	46.0	1.22	31.0	2.68	68.0
SG-JCFX90-0606	29425-0606	20758283	3/8		9/16-18		3/4	19		1.50	38.0	1.22	31.0	2.67	67.7
SG-JCFX90L-0606	29440-0606	20822017	3/8		9/16-18		3/4	19	LT	2.13	54.0	1.69	43.0	3.15	80.0
SG-JCFX90S-0606	29445-0606	20822008	3/8		9/16-18		3/4	19	ST	0.91	23.0	1.65	42.0	3.11	79.0
SG-JCFX90-0608	29425-0608	20822028	3/8		3/4-16		1	25		1.61	41.0	1.54	39.0	2.99	76.0
SG-JCFX90L-0608	29440-0608	20822016	3/8		3/4-16		1	25	LT	2.52	64.0	1.85	47.0	3.31	84.0
SG-JCFX90S-0608	29445-0608	20822007	3/8		3/4-16		1	25	ST	1.85	47.0	1.93	49.0	3.39	86.0

Continued on the next page.

### FITTINGS



### Section 2

SG Fittings

#### COMPATIBLE HOSE:

SR12	ARC12	LCP4S	S4SH	XCP5S
SR13	ARC13	LCP6S	XCP3S	XCP6S
SR15	ARC15	S4SP	XCP4S	

For a detailed list, please refer to your Crimp Specifications Manual.

## JIC 37° Flare (Female 90° Elbow) Continued

Part Number	Product Number	SAP Number	Hose ID	Thread Size (A)	Hex 1 Wrench Size		Elbow Type*	Drop (D)		Cut-Off (C)		Length (L)	
					in.	mm		in.	mm	in.	mm	in.	mm
SG-JCFX90-0808	29425-0808	20758292	1/2	3/4-16	1	25		1.58	40.0	1.49	37.9	3.03	76.9
SG-JCFX90L-0808	29440-0808	20822015	1/2	3/4-16	1	25	LT	2.52	64.0	2.01	50.9	3.54	89.9
SG-JCFX90S-0808	29445-0808	20822006	1/2	3/4-16	1	25	ST	1.14	29.0	1.81	46.0	3.38	85.9
SG-JCFX90-0810	29425-0810	20822027	1/2	7/8-14	1 1/16	27		1.85	47.0	1.69	43.0	3.23	82.0
SG-JCFX90L-0810	29440-0810	20822014	1/2	7/8-14	1 1/16	27	LT	2.76	70.0	1.46	37.0	2.99	76.0
SG-JCFX90S-0810	29445-0810	20822005	1/2	7/8-14	1 1/16	27	ST	1.26	32.0	1.81	46.0	3.38	85.9
SG-JCFX90-0812	29445-0812	20822026	1/2	1 1/16-12	1 1/4	32		1.81	46.0	1.49	37.9	3.03	76.9
SG-JCFX90-1010	29425-1010	20822025	5/8	7/8-14	1 1/16	27		1.85	47.0	1.76	44.8	3.52	89.5
SG-JCFX90L-1010	29440-1010	20822013	5/8	7/8-14	1 1/16	27	LT	2.76	70.0	1.76	44.8	3.56	90.5
SG-JCFX90S-1010	29445-1010	20822004	5/8	7/8-14	1 1/16	27	ST	1.26	32.0	1.76	44.8	3.52	89.5
SG-JCFX90-1012 <sup>T</sup>	29425-1012	20822024	5/8	1 1/16-12	1 1/4	32		2.28	58.0	2.35	59.7	3.94	100.2
SG-JCFX90L-1012 <sup>T</sup>	29440-1012	20822012	5/8	1 1/16-12	1 1/4	32	LT	3.78	96.0	2.35	59.7	3.94	100.2
SG-JCFX90-1210	29425-1210	20822023	3/4	7/8-14	1 1/16	27		1.85	47.0	1.97	50.0	3.84	97.5
SG-JCFX90L-1210	29440-1210	20822011	3/4	7/8-14	1 1/16	27	LT	2.76	70.0	1.97	50.0	3.84	97.5
SG-JCFX90S-1210	29445-1210	20822003	3/4	7/8-14	1 1/16	27	ST	1.26	32.0	1.97	50.0	3.84	97.5
SG-JCFX90-1212 <sup>T</sup>	29425-1212	20822022	3/4	1 1/16-12	1 1/4	32		2.24	56.9	2.35	59.7	4.22	107.2
SG-JCFX90L-1212 <sup>T</sup>	29440-1212	20822010	3/4	1 1/16-12	1 1/4	32	LT	3.78	96.0	2.35	59.7	4.22	107.2
SG-JCFX90S-1212 <sup>T</sup>	29445-1212	20822002	3/4	1 1/16-12	1 1/4	32	ST	1.89	48.0	2.35	59.7	4.22	107.2
SG-JCFX90-1216 <sup>T</sup>	29425-1216	20822021	3/4	1 5/16-12	1 1/2	38		2.80	71.0	2.35	59.7	4.22	107.2
SG-JCFX90-1616 <sup>T</sup>	29425-1616	20822020	1	1 5/16-12	1 1/2	38		2.80	71.0	2.97	75.5	5.25	133.5
SG-JCFX90L-1616 <sup>T</sup>	29440-1616	20822009	1	1 5/16-12	1 1/2	38	LT	4.49	114.0	3.10	78.7	5.38	136.7
SG-JCFX90S-1616 <sup>T</sup>	29445-1616	20822001	1	1 5/16-12	1 1/2	38	ST	2.44	61.9	2.55	64.8	4.83	122.8
SG-JCFX90-1620 <sup>T</sup>	29425-1620	20822019	1	1 3/8-12	2	50		3.07	78.0	2.87	72.9	5.15	130.9
SG-JCFX90-2020	29425-2020	20926508	1 1/4	1 5/8-12	2	50		3.07	78.0	3.622	92.0	6.76	171.6
SG-JCFX90-2020S	29425-2020S	20926532	1 1/4	1 5/8-12	2	50		3.07	78.0	3.622	92.0	6.76	171.6
SG-JCFX90-2024	29425-2024	20926509	1 1/4	1 7/8-12	2 3/16	55		3.39	86.0	3.94	100.0	7.07	179.6
SG-JCFX90L-2024	29440-2024	20926510	1 1/4	1 7/8-12	2 3/16	55	LT	5.55	141.0	3.94	100.0	7.07	179.6
SG-JCFX90-2424	29425-2424	20757723	1 1/2	1 7/8-12	2 3/16	55		3.45	87.6	4.53	115.0	7.99	203.0
SG-JCFX90-2424S	29425-2424S	20933836	1 1/2	1 7/8-12	2 3/16	55		3.45	87.6	4.53	115.0	7.99	203.0
SG-JCFX90-3232S	29425-3232S	20933837	2	2 1/2-12	2 3/4	70		5.51	140	5.08	129	9.25	235

T=Thrust-Wire Nut (See Fitting Identification in Appendix for more information.) \*Elbow Type: LT=Long Tube ST=Short Tube



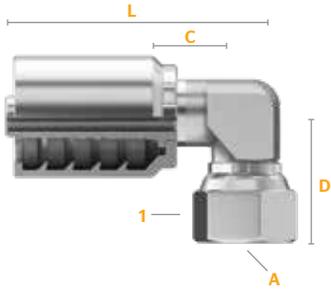
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## Section 2

SG Fittings

## FITTINGS





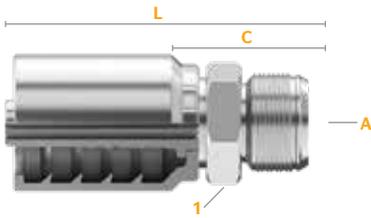
## JIC 37° Flare (SAE J514)

Female / 90° Block Elbow / Swivel



Part Number	Product Number	SAP Number	Hose ID		Hex 1 Wrench Size		Elbow Type*	Drop (D)		Cut-Off (C)		Length (L)	
			in.	mm	in.	mm		in.	mm	in.	mm	in.	mm
SG-JCFX90B-0606		20840883	3/8	9/16-18	3/4	19	BE	1.13	28.7	0.93	23.7	2.39	60.7
SG-JCFX90B-0808		20840884	1/2	3/4-16	1	25	BE	1.66	42.3	1.00	25.5	2.54	64.5

\*Elbow Type: BE=Block Elbow



## JIC 37° Flare (SAE J514)

Male



Part Number	Product Number	SAP Number	Hose ID		Hex 1 Wrench Size		Cut-Off (C)		Length (L)	
			in.	mm	in.	mm	in.	mm	in.	mm
SG-JCM-0606	29450-0606	20758249	3/8	9/16-18	11/16	17	1.15	29.1	2.60	66.1
SG-JCM-0608	29450-0608	20758285	3/8	3/4-16	3/4	19	1.29	32.8	2.75	69.9
SG-JCM-0610	29450-0610	20822000	3/8	7/8-14	15/16	24	1.45	36.8	2.91	73.8
SG-JCM-0808	29450-0808	20758291	1/2	3/4-16	3/4	19	1.29	32.8	2.83	71.9
SG-JCM-0810	29450-0810	20758296	1/2	7/8-14	15/16	24	1.45	36.8	2.99	75.8
SG-JCM-0812	29450-0812	20758295	1/2	1 1/8-12	1 1/8	27	1.54	39.1	3.07	78.1
SG-JCM-1010	29450-1010	20821999	5/8	7/8-14	15/16	24	1.47	37.3	3.06	77.8
SG-JCM-1012	29450-1012	20821998	5/8	7/8-14	1 1/8	27	1.56	39.6	3.15	80.1
SG-JCM-1212	29450-1212	20821997	3/4	1 1/8-12	1 1/8	27	1.60	40.6	3.47	88.1
SG-JCM-1214	29450-1229	20821996	3/4	1 3/8-12	1 1/4	32	1.73	43.9	3.60	91.4
SG-JCM-1216	29450-1216	20821995	3/4	1 1/2-12	1 1/2	36	1.77	45.1	3.66	93.1
SG-JCM-1616	29450-1616	20821994	1	1 1/2-12	1 1/2	36	1.83	46.6	4.12	104.6
SG-JCM-1620	29450-1620	20821993	1	1 3/8-12	1 3/8	46	1.99	50.5	4.27	108.6
SG-JCM-2020	29450-2020	20926511	1 1/4	1 3/8-12	1 3/8	46	2.14	54.5	5.278	134.1
SG-JCM-2020S	29450-2020S	20933838	1 1/4	1 3/8-12	1 3/8	46	2.14	54.5	5.28	134.1
SG-JCM-2024	29450-2024	20926512	1 1/4	1 1/2-12	1 3/8	46	2.33	59.2	5.46	138.8
SG-JCM-2424	29450-2424	20757728	1 1/2	1 3/8-12	2	50	2.54	64.6	6.01	152.6
SG-JCM-2424S	29450-2424S	20933839	1 1/2	1 3/8-12	2	50	2.54	64.6	6.01	152.6
SG-JCM-3232	29450-3232	20833302	2	2-12	2 1/8	70	2.97	75.5	6.52	165.6
SG-JCM-3232S	29450-3232S	20933840	2	2 1/2-12	2 1/8	70	2.97	75.5	6.518	165.6

# FITTINGS



## Section 2

SG Fittings

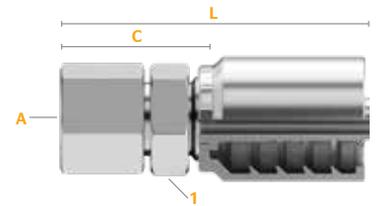
### COMPATIBLE HOSE:

SR12	ARC12	LCP4S	S4SH	XCP5S
SR13	ARC13	LCP6S	XCP3S	XCP6S
SR15	ARC15	S4SP	XCP4S	

For a detailed list, please refer to your Crimp Specifications Manual.

**NPTF**

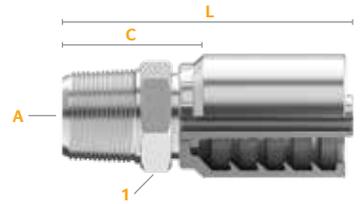
Female



Part Number	Product Number	SAP Number								
			Hose ID	Thread Size (A)	Hex 1 Wrench Size		Cut-Off (C)		Length (L)	
			in.		in.	mm	in.	mm	in.	mm
SG-NPF-0808	29600-0808	20821973	1/2	1/2-14	1	25	1.48	37.6	3.02	76.6

**NPTF**

Male



Part Number	Product Number	SAP Number								
			Hose ID	Thread Size (A)	Hex 1 Wrench Size		Cut-Off (C)		Length (L)	
			in.		in.	mm	in.	mm	in.	mm
SG-NPM-0604	29615-1608	20731608	3/8	1/4-18	1 1/16	17	1.17	29.7	2.63	66.8
SG-NPM-0606	29615-0606	20731748	3/8	3/8-18	3/4	19	1.20	30.5	2.66	67.5
SG-NPM-0606S	29615-0606S	20821971	3/8	3/8-18	3/4	19	1.20	30.5	2.66	67.5
SG-NPM-0608	29615-0608	20758280	3/8	1/2-14	7/8	22	1.37	34.9	2.83	71.9
SG-NPM-0806	29615-0806	20731755	1/2	3/8-18	3/4	19	1.20	30.5	2.73	69.4
SG-NPM-0808	29615-0808	20753007	1/2	1/2-14	7/8	22	1.37	34.9	2.91	73.9
SG-NPM-0808S	29615-0808S	20821970	1/2	1/2-14	7/8	22	1.37	34.9	2.91	73.9
SG-NPM-0812	29615-0812	20758303	1/2	3/4-14	1 1/16	27	1.42	36.0	2.95	75.0
SG-NPM-1012	29615-1012	20821969	5/8	3/4-14	1 1/16	27	1.44	36.5	3.03	77.0
SG-NPM-1208	29615-1208	20821968	3/4	1/2-14	1 1/16	27	1.43	36.4	3.30	83.9
SG-NPM-1212	29615-1212	20821967	3/4	3/4-14	1 1/16	27	1.48	37.5	3.35	85.0
SG-NPM-1212S	29615-1212S	20821966	3/4	3/4-14	1 1/16	27	1.48	37.5	3.35	85.0
SG-NPM-1216	29615-1216	20821965	3/4	1-11 1/2	1 1/16	36	1.83	46.6	3.70	94.1
SG-NPM-1612	29615-1612	20821964	1	3/4-14	1 1/16	36	1.70	43.2	3.99	101.2
SG-NPM-1616	29615-1616	20821963	1	1-11 1/2	1 1/16	36	1.89	48.1	4.18	106.1
SG-NPM-1616S	29615-1616S	20821962	1	1-11 1/2	1 1/16	36	1.89	48.1	4.18	106.1
SG-NPM-1620	29615-1620	20821961	1	1 1/4-11 1/2	1 3/16	46	2.03	51.5	4.31	109.5
SG-NPM-2020	29615-2020	20926515	1 1/4	1 1/4-11 1/2	1 3/16	46	2.18	55.4	5.312	135.0
SG-NPM-2020S	29615-2020S	20926533	1 1/4	1 1/4-11 1/2	1 3/16	46	2.18	55.4	5.312	135.0
SG-NPM-2024	29615-2024	20926516	1 1/4	1 1/2-11 1/2	2	50	2.24	56.9	5.38	136.5
SG-NPM-2424	29615-2424	20757742	1 1/2	1 1/2-11 1/2	2	50	2.46	62.4	5.92	150.4
SG-NPM-2424S	29615-2424S	20873143	1 1/2	1 1/2-11 1/2	2	50	2.46	62.4	5.92	150.4
SG-NPM-3232	29615-3232	20833301	2	2-11 1/2	2 3/16	70	2.67	67.9	6.22	157.9
SG-NPM-3232S	29615-3232S	20933841	2	2-11 1/2	2 3/16	70	2.67	67.9	6.22	157.9

S=Stainless Steel (See Fitting Identification in Appendix for more information.)

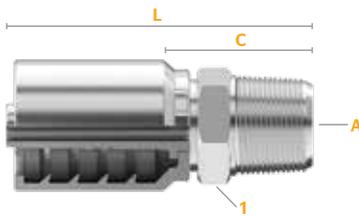


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**Section 2**  
SG Fittings

**FITTINGS**



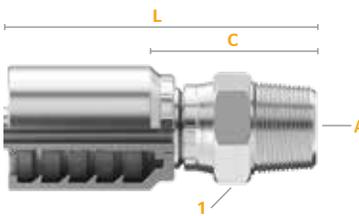


## NPT API

Male



Part Number	Product Number	SAP Number	Hose ID		Thread Size (A)		Hex 1 Wrench Size		Cut-Off (C)		Length (L)	
			in.	mm	in.	mm	in.	mm	in.	mm	in.	mm
SG-NPM-API-1616	29617-1616	20821960	1		1-11 1/2 API API5B		1 7/16	36	2.72	69.0	5.00	127.0
SG-NPM-API-2424	29617-2424	20873223	1 1/4		1 1/2-11 1/2 API API15B		2	50	3.52	89.4	6.99	177.4
SG-NPM-API-3232	29617-2424	20833300	2		2-11 1/2 API API5B		2 13/16	70	4.35	110.5	7.90	200.5

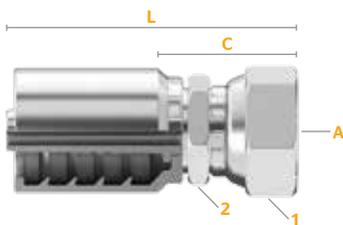


## NPTF

Male / Swivel



Part Number	Product Number	SAP Number	Hose ID		Thread Size (A)		Hex 1 Wrench Size		Cut-Off (C)		Length (L)	
			in.	mm	in.	mm	in.	mm	in.	mm	in.	mm
SG-NPMX-0604	29645-0604	20821959	3/8		1/4-18		1 1/16	17	1.67	42.3	3.123	79.3
SG-NPMX-0606	29645-0606	20821958	3/8		3/8-18		7/8	22	1.58	40.1	3.04	77.1
SG-NPMX-0608	29645-0608	20821957	3/8		1/2-14		1	25	1.73	44.0	3.19	81.0
SG-NPMX-0806	29645-0806	20821956	1/2		3/8-18		7/8	22	1.58	40.1	3.12	79.1
SG-NPMX-0808	29645-0808	20821955	1/2		1/2-14		1	25	1.73	44.0	3.27	83.0
SG-NPMX-1212	29645-1212	20821954	3/4		3/4-14		1 1/4	32	2.08	52.8	3.95	100.3
SG-NPMX-1616	29645-1616	20821953	1		1-11 1/2		1 5/8	41	2.40	60.9	4.681	118.9



## NPSM

Female / Swivel



Part Number	Product Number	SAP Number	Hose ID		Thread Size (A)		Hex 1 Wrench Size		Hex 2 Wrench Size		Cut-Off (C)		Length (L)	
			in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm
SG-NSFX-0606	29655-0606	20821948	3/8		3/8-18		7/8	22	11/16	17	1.29	32.8	2.75	69.8
SG-NSFX-0808	29655-0808	20821947	1/2		1/2-14		1 1/16	27	7/8	22	1.41	35.8	2.95	74.8
SG-NSFX-2020	29655-2020	20926517	1 1/4		1 1/4-11 1/2		2	50	1 3/8	41	2.27	57.7	5.40	137.2

## FITTINGS



## Section 2

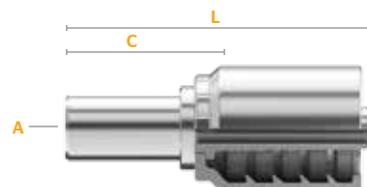
SG Fittings

### COMPATIBLE HOSE:

SR12	ARC12	LCP4S	S4SH	XCP5S
SR13	ARC13	LCP6S	XCP3S	XCP6S
SR15	ARC15	S4SP	XCP4S	

For a detailed list, please refer to your Crimp Specifications Manual.

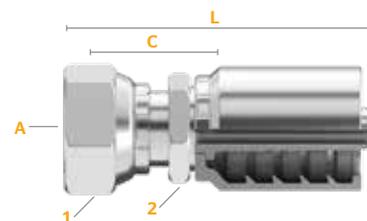
## Standpipe



Part Number	Product Number	SAP Number	Hose ID	Tube O.D. (A)	Cut-Off (C)		Length (L)	
			in.	mm	in.	mm	in.	mm
SG-SP-1628	29825-1628	20821784	1	28	1.73	43.9	4.01	101.9

## O-Ring Face Seal (SAE J1453 ORS/ORFS)

Female / Swivel



Part Number	Product Number	SAP Number	Hose ID	Thread Size (A)	Hex 1 Wrench Size	Hex 2 Wrench Size	Cut-Off (C)		Length (L)			
			in.		in.	mm	in.	mm	in.	mm		
SG-OFFX-0604	29700-0604	20821928	3/8	9/16-18	7/8	17	11/16	17	1.29	32.8	2.75	69.9
SG-OFFX-0606	29700-0606	20758282	3/8	11/16-16	7/8	22	11/16	18	1.29	32.8	2.75	69.9
SG-OFFX-0608	29700-0608	20731751	3/8	13/16-16	15/16	24	7/8	22	1.50	38.1	2.96	75.1
SG-OFFX-0806	29700-0806	20821927	1/2	11/16-16	7/8	22	3/4	19	1.34	34.0	2.87	73.0
SG-OFFX-0808	29700-0808	20731750	1/2	13/16-16	15/16	24	7/8	22	1.50	38.1	3.04	77.1
SG-OFFX-0810	29700-0810	20731764	1/2	1-14	1 3/16	30	15/16	24	1.63	41.5	3.17	80.5
SG-OFFX-0812	29700-0812	20731759	1/2	1 3/16-12	1 7/16	36	1 3/16	30	1.74	44.1	3.27	83.1
SG-OFFX-1010	29700-1010	20821925	5/8	1-14	1 3/16	30	15/16	24	1.65	42.0	3.25	82.5
SG-OFFX-1012	29700-1012	20821924	5/8	1 3/16-12	1 7/16	36	1 3/16	30	1.75	44.5	3.35	85.0
SG-OFFX-1210	29700-1210	20821923	3/4	1-14	1 3/16	30	1 1/16	27	1.69	43.0	3.56	90.4
SG-OFFX-1212	29700-1212	20821922	3/4	1 3/16-12	1 7/16	36	1 3/16	30	1.78	45.2	3.65	92.7
SG-OFFX-1216	29700-1216	20821921	3/4	1 3/16-12	1 1/2	41	1 7/16	36	2.03	51.5	3.90	99.0
SG-OFFX-1612	29700-1612	20821920	1	1 3/16-12	1 7/16	36	1 1/4	32	1.95	49.4	4.23	107.4
SG-OFFX-1616	29700-1616	20821919	1	1 7/16-12	1 1/2	41	1 7/16	36	2.10	53.4	4.39	111.4
SG-OFFX-1620	29700-1620	20821918	1	1 1/16-12	2	50	1 1/2	41	1.99	50.5	4.27	108.5
SG-OFFX-2020	29700-2020	20926519	1 1/4	1 1/16-12	2 3/8	50	1 3/8	41	2.28	57.9	5.42	137.7
SG-OFFX-2424	29700-2424	20757721	1 1/2	2-12	2 3/8	60	2 3/8	50	2.69	68.4	6.16	156.3

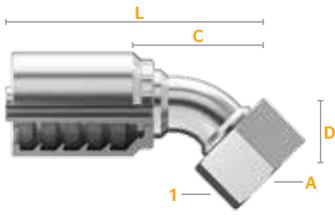


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**Section 2**  
SG Fittings

**FITTINGS**



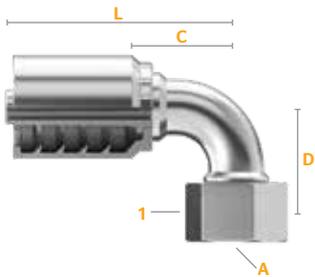


## O-Ring Face Seal (SAE J1453 ORS/ORFS)

Female / 45° Elbow / Swivel



Part Number	Product Number	SAP Number	Hose ID	Thread Size (A)	Hex 1 Wrench Size		Drop (D)		Cut-Off (C)		Length (L)	
			in.		in.	mm	in.	mm	in.	mm	in.	mm
SG-OFFX45-0606	29710-0606	20758286	3/8	11/16-16	7/8	22	0.43	11.0	1.85	47.0	3.31	84.0
SG-OFFX45-0608	29710-0608	20821917	3/8	13/16-16	15/16	24	0.59	15.0	2.01	51.1	3.47	88.1
SG-OFFX45-0808	29710-0808	20731758	1/2	13/16-16	15/16	24	0.63	16.0	1.85	47.0	3.42	86.9
SG-OFFX45-0810	29710-0810	20758300	1/2	1-14	1 3/16	30	0.63	16.0	1.97	50.0	3.51	89.0
SG-OFFX45-1010	29710-1010	20821916	5/8	1-14	1 3/16	30	0.63	16.0	1.65	42.0	3.86	98.0
SG-OFFX45-1210	29710-1210	20873194	3/4	1-14	1 3/16	30	0.79	20.1	2.16	55.0	4.04	102.5
SG-OFFX45-1212	29710-1212	20821915	3/4	1 3/16-12	1 7/16	36	0.83	21.0	2.56	64.9	4.43	112.4
SG-OFFX45-1216	29710-1216	20821914	3/4	1 3/16-12	1 5/8	41	0.95	24.0	2.80	71.1	4.67	118.6
SG-OFFX45-1616	29710-1616	20821913	1	1 1/16-12	1 5/8	41	1.02	26.0	3.15	80.0	5.43	137.9
SG-OFFX45-1620	29710-1620	20873195	1	1 1/16-12	2	50	1.26	32.0	3.35	85.1	5.63	143.1
SG-OFFX45-2020	29710-2020	20926520	1 1/4	1 1/16-12	2	50	1.02	25.9	3.82	97.0	6.95	176.6
SG-OFFX45-2024	29710-2024	20926521	1 1/4	2-12	2 3/8	60	1.1	27.9	3.62	92.0	6.76	171.6
SG-OFFX45-2424	29710-2424	20873197	1 1/2	2-12	2 3/8	60	1.65	42.0	4.8	121.9	8.27	209.9



## O-Ring Face Seal (SAE J1453 ORS/ORFS)

Female / 90° Elbow / Swivel



Part Number	Product Number	SAP Number	Hose ID	Thread Size (A)	Hex 1 Wrench Size		Elbow Type <sup>1</sup>	Drop (D)		Cut-Off (C)		Length (L)	
			in.		in.	mm		in.	mm	in.	mm	in.	mm
SG-OFFX90-0606	29715-0606	20731757	3/8	11/16-16	7/8	22		1.50	38.0	1.65	42.0	3.11	79.0
SG-OFFX90L-0606	29720-0606	20731762	3/8	11/16-16	7/8	22	LT	2.13	54.0	1.65	42.0	3.11	79.0
SG-OFFX90S-0606	29725-0606	20731760	3/8	11/16-16	7/8	22	ST	0.91	23.0	1.65	42.0	3.11	79.0
SG-OFFX90-0608	29715-0608	20821911	3/8	13/16-16	15/16	24		1.61	41.0	1.73	44.0	3.19	81.0
SG-OFFX90L-0608	29720-0608	20821904	3/8	13/16-16	15/16	24	LT	2.52	64.0	1.85	47.0	3.31	84.0
SG-OFFX90S-0608	29725-0608	20821899	3/8	13/16-16	15/16	24	ST	1.14	29.0	1.65	42.0	3.11	79.0

Continued on the next page.

### FITTINGS



### Section 2

SG Fittings

#### COMPATIBLE HOSE:

SR12	ARC12	LCP4S	S4SH	XCP5S
SR13	ARC13	LCP6S	XCP3S	XCP6S
SR15	ARC15	S4SP	XCP4S	

For a detailed list, please refer to your Crimp Specifications Manual.

## O-Ring Face Seal (Female 90° Elbow) Continued

Part Number	Product Number	SAP Number	Hose ID	Thread Size (A)	Hex 1 Wrench Size		Elbow Type <sup>2</sup>	Drop (D)		Cut-Off (C)		Length (L)	
			in.		in.	mm		in.	mm	in.	mm	in.	mm
SG-OFFX90-0808	29715-0808	20731753	1/2	13/16-16	15/16	24		1.61	41.0	1.41	35.9	2.95	74.9
SG-OFFX90L-0808	29720-0808	20821903	1/2	13/16-16	15/16	24	LT	2.52	64.0	1.53	38.9	3.07	77.9
SG-OFFX90S-0808	29725-0808	20731756	1/2	13/16-16	15/16	24	ST	1.14	29.0	1.61	40.9	3.15	79.9
SG-OFFX90-0810	29715-0810	20821910	1/2	1-14	1 3/16	30		1.85	47.0	1.89	48.0	3.43	87.0
SG-OFFX90L-0810	29720-0810	20821902	1/2	1-14	1 3/16	30	LT	2.76	70.0	1.81	46.0	3.35	85.0
SG-OFFX90S-0810	29725-0810	20821898	1/2	1-14	1 3/16	30	ST	1.26	32.0	1.81	46.0	3.38	85.9
SG-OFFX90S-0812	29725-0812	20821897	1/2	1 3/16-12	1 7/16	36	ST	1.89	48.0	2.48	62.9	4.01	101.9
SG-OFFX90-1010	29715-1010	20821909	5/8	1-14	1 3/16	30		1.85	47.0	2.17	55.0	3.76	95.5
SG-OFFX90S-1010	29725-1010	20821896	5/8	1-14	1 3/16	30	ST	1.28	32.5	2.05	52.0	3.64	92.5
SG-OFFX90S-1012	29725-1012	20821895	5/8	1 3/16-12	1 7/16	36	ST	1.89	48.0	2.48	62.9	4.07	103.4
SG-OFFX90S-1210	29725-1210	20821894	3/4	1-14	1 3/16	30	ST	1.54	39.1	1.63	41.3	3.70	93.9
SG-OFFX90-1212	29715-1212	20821908	3/4	1 3/16-12	1 7/16	36		2.28	58.0	2.52	63.9	4.39	111.4
SG-OFFX90L-1212	29720-1212	20821901	3/4	1 3/16-12	1 7/16	36	LT	3.78	96.0	2.52	63.9	4.39	111.4
SG-OFFX90S-1212	29725-1212	20821893	3/4	1 3/16-12	1 7/16	36	ST	1.89	48.0	2.48	62.9	4.35	110.4
SG-OFFX90-1216	29715-1216	20821907	3/4	1 7/16-12	1 3/8	41		2.80	71.1	2.68	68.0	4.55	115.5
SG-OFFX90S-1216	29725-1216	20821892	3/4	1 7/16-12	1 3/8	41	ST	2.21	56.0	2.68	68.0	4.55	115.5
SG-OFFX90-1616	29715-1616	20821906	1	1 7/16-12	1 3/8	41		2.80	71.0	3.13	79.6	5.42	137.5
SG-OFFX90L-1616	29720-1616	20821900	1	1 7/16-12	1 3/8	41	LT	4.49	114.0	3.13	79.5	5.42	137.5
SG-OFFX90S-1616	29725-1616	20821891	1	1 7/16-12	1 3/8	41	ST	2.26	57.5	3.13	79.6	5.42	137.5
SG-OFFX90-1620	29715-1620	20821905	1	1 7/16-12	2	50		3.07	78.0	3.27	83.0	5.55	141.0
SG-OFFX90S-1620	29725-1620	20821890	1	1 7/16-12	2	50	ST	2.52	64.0	3.27	83.0	5.55	141.0
SG-OFFX90-2020	29715-2020	20926522	1 1/4	1 11/16-12	2	50		3.07	78.0	3.82	97.0	6.95	176.6
SG-OFFX90L-2020	29720-2020	20926524	1 1/4	1 11/16-12	2	50	LT	5.08	129.0	3.82	97.0	6.95	176.6
SG-OFFX90S-2020	29725-1620	20926526	1 1/4	1 11/16-12	2	50	ST	2.52	64.0	3.74	95.0	6.87	174.6
SG-OFFX90-2024	29715-2024	20926523	1 1/4	2-12	2 3/8	50		3.071	78.0	3.62	92.0	6.76	171.6
SG-OFFX90L-2024	29720-2024	20926525	1 1/4	2-12	2 3/8	50	LT	5.08	129.0	3.62	92.0	6.76	171.6
SG-OFFX90S-2024	29725-1624	20926527	1 1/4	2-12	2 3/8	50	ST	2.52	64.0	3.62	92.0	6.76	171.6
SG-OFFX90-2424	29715-2424	20873198	1 1/2	2-12	2 3/8	60		3.39	86.0	4.52	115.0	7.99	203.0
SG-OFFX90L-2424	29720-2424	20873199	1 1/2	2-12	2 3/8	60	LT	5.55	141.0	4.52	115.0	7.99	203.0
SG-OFFX90S-2424	29725-2424	20873200	1 1/2	2-12	2 3/8	60	ST	2.78	70.6	4.52	115.0	7.49	190.1

\*Elbow Type: LT=Long Tube ST=Short Tube



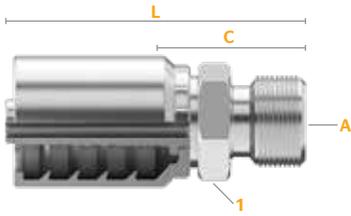
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## Section 2

SG Fittings

## FITTINGS



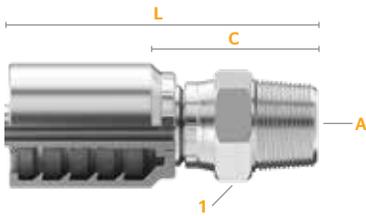


## O-Ring Face Seal (SAE J1453 ORS/ORFS)

Male



Part Number	Product Number	SAP Number	Hose ID	Thread Size (A)	Hex 1 Wrench Size		Cut-Off (C)		Length (L)	
			in.		in.	mm	in.	mm	in.	mm
SG-OFM-0606	29730-0606	20758281	3/8	11/16-16	3/4	19	1.15	29.3	2.61	66.3
SG-OFM-0608	29730-0608	20821889	3/8	13/16-16	7/8	22	1.15	29.1	2.60	66.1
SG-OFM-0808	29730-0808	20758297	1/2	13/16-16	7/8	22	1.27	32.3	2.81	71.3
SG-OFM-0810	29730-0810	20821888	1/2	13/16-16	1 1/16	27	1.29	32.7	2.83	71.8
SG-OFM-0812	29730-0812	20821887	1/2	13/16-16	1 1/4	32	1.42	36.0	2.95	75.0
SG-OFM-1212	29730-1212	20821886	3/4	1 3/16-12	1 1/4	32	1.48	37.5	3.35	85.0
SG-OFM-1216	29730-1216	20821885	3/4	1 7/16-12	1 1/2	38	1.58	40.1	3.45	87.6
SG-OFM-1616	29730-1616	20821884	1	1 7/16-12	1 1/2	38	1.64	41.6	3.92	99.6
SG-OFM-2020	29730-2020	20926528	1 1/4	1 1/8-12	1 3/16	46	1.88	47.8	5.01	127.3
SG-OFM-2424	29730-2424	20873225	1 1/2	2-12	2 3/16	55	2.17	55.1	5.64	143.3



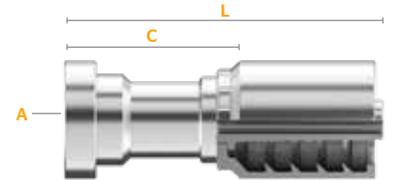
## O-Ring Boss Straight Thread (SAE J514)

Male



Part Number	Product Number	SAP Number	Hose ID	Thread Size (A)	Hex 1 Wrench Size		Cut-Off (C)		Length (L)	
			in.		in.	mm	in.	mm	in.	mm
SG-OBM-0606	29670-0606	20821946	3/8	9/16-18	3/4	19	1.03	26.1	2.48	63.1
SG-OBM-0608	29670-0608	20821945	3/8	3/4-16	7/8	22	1.09	27.6	2.54	64.6
SG-OBM-0610	29670-0610	20821944	3/8	7/8-14	1 1/16	27	1.18	29.9	2.64	67.0
SG-OBM-0808	29670-0808	20821943	1/2	3/4-16	7/8	22	1.09	27.6	2.62	66.6
SG-OBM-0810	29670-0810	20821942	1/2	7/8-14	1 1/16	27	1.18	29.9	2.72	69.0
SG-OBM-0812	29670-0812	20821941	1/2	1 1/16-12	1 1/4	32	1.34	34.1	2.88	73.1
SG-OBM-1210	29670-1210	20821940	3/4	7/8-14	1 1/16	27	1.24	31.4	3.11	78.9
SG-OBM-1212	29670-1212	20821939	3/4	1 1/16-12	1 1/4	32	1.40	35.6	3.27	83.1
SG-OBM-1216	29670-1216	20821938	3/4	1 3/16-12	1 1/2	38	1.48	37.6	3.35	85.1
SG-OBM-1616	29670-1616	20821937	1	1 1/16-12	1 1/2	38	1.54	39.1	3.83	97.2
SG-OBM-2020	29670-2020	20926518	1 1/4	1 1/8-12	1 3/16	46	1.78	45.2	4.91	124.8
SG-OBM-2424	29670-2424	20873224	1 1/2	1 1/8-12	2 1/8	54	2.06	52.2	5.52	140.2

## Code 61 Flange (SAE J518)

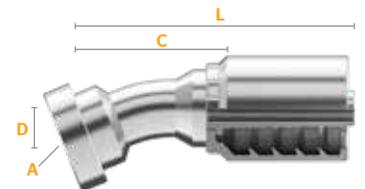


Part Number	Product Number	SAP Number								
			Hose ID	Flange Size	Flange Diameter (A)		Cut-Off (C)		Length (L)	
			in.		in.	mm	in.	mm	in.	mm
SG-FL-0808	29320-0808	20822104	1/2	1/2	1.19	30.2	1.61	40.9	3.15	79.9
SG-FL-0812	29320-0812	20822131	1/2	3/4	1.50	38.1	1.65	41.9	3.19	80.9
SG-FL-1012	29320-1012	20822102	5/8	3/4	1.50	38.1	1.71	43.3	3.30	83.8
SG-FL-1212	29320-1212	20822098	3/4	3/4	1.50	38.1	1.75	44.3	3.62	91.8
SG-FL-1216	29320-1216	20822097	3/4	1	1.75	44.5	1.99	50.5	3.86	98.0
SG-FL-1220	29320-1220	20822096	3/4	1 1/4	2.00	50.8	2.09	53.0	3.96	100.6
SG-FL-1616	29320-1616	20822094	1	1	1.75	44.5	2.09	53.1	4.37	111.1
SG-FL-1620	29320-1620	20822093	1	1 1/4	2.00	50.8	2.12	53.9	4.40	111.8
SG-FL-1624	29320-1624	20822092	1	1 1/2	2.37	60.3	2.32	58.9	4.60	116.8
SG-FL-2020	29320-2020	20926491	1 1/4	1 1/4	2.00	50.8	2.25	57.2	5.38	136.8
SG-FL-2020S	29320-2020S	20933827	1 1/4	1 1/4	2.00	50.8	2.25	57.2	5.38	136.8
SG-FL-2420	29320-2420	20873213	1 1/2	1 1/4	2.00	50.8	2.19	55.6	5.65	143.6
SG-FL-2424	29320-2424	20757499	1 1/2	1 1/2	2.38	60.3	2.91	73.8	6.45	163.9
SG-FL-2424S	29320-2424S	20933828	1 1/2	1 1/2	2.38	60.3	2.91	73.8	6.45	163.9
SG-FL-2432	29320-2432	20873214	1 1/2	2	2.81	71.4	2.76	70.1	6.23	158.1
SG-FL-3232	29320-3232	20833306	2	2	2.81	71.4	2.91	73.8	6.45	163.9
SG-FL-3232S	29320-3232S	20933829	2	2	2.81	71.4	2.91	73.8	6.45	163.9

S=Stainless Steel (See Fitting Identification in Appendix for more information.)

## Code 61 Flange (SAE J518)

22.5° Elbow



Part Number	Product Number	SAP Number										
			Hose ID	Flange Size	Flange Diameter (A)		Drop (D)	Cut-Off (C)		Length (L)		
			in.		in.	mm	in.	mm	in.	mm	in.	mm
SG-FL22-0808	29330-0808	20822091	1/2	1/2	1.19	30.2	0.35	9.0	2.32	58.9	3.86	97.9
SG-FL22-1212	29330-1212	20822090	3/4	3/4	1.50	38.1	0.55	14.0	3.325	84.5	5.20	132.0
SG-FL22-1216	29330-1216	20822089	3/4	1	1.75	44.5	0.55	14.0	3.39	86.1	5.26	133.6
SG-FL22-1616	29330-1616	20822088	1	1	1.75	44.5	0.55	14.0	4.217	107.1	6.50	165.1
SG-FL22-1620	29330-1620	20822087	1	1 1/4	2.00	50.8	0.59	15.0	3.62	91.9	5.90	149.9
SG-FL22-2020	29330-2020	20926492	1 1/4	1 1/4	2.00	50.8	0.60	15.2	4.50	114.3	7.63	193.9
SG-FL22-2024	29330-2024	20926493	1 1/4	1 1/2	2.38	60.3	0.60	15.2	4.50	114.3	7.63	193.9
SG-FL22-2424	29330-2424	20873212	1 1/2	1 1/2	2.38	60.3	0.71	18.0	5.16	131.1	8.63	219.1
SG-FL22-3232	29330-3232	20873187	2	2	2.81	71.4	0.87	22.0	5.709	145.0	9.25	235.0

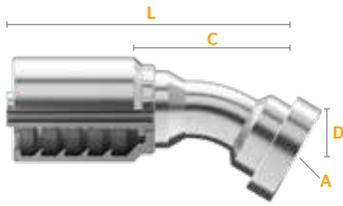


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**Section 2**  
SG Fittings

**FITTINGS**

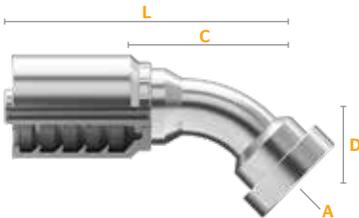




## Code 61 Flange (SAE J518)

30° Elbow

Part Number	Product Number	SAP Number										
			Hose ID	Flange Size	Flange Diameter (A)		Drop (D)		Cut-Off (C)		Length (L)	
			in.		in.	mm	in.	mm	in.	mm	in.	mm
SG-FL30-1212	29335-1212	20822086	3/4	3/4	1.50	38.1	0.69	17.5	3.23	81.9	5.136	130.5
SG-FL30-1216	29335-1216	20822085	3/4	1	1.75	44.5	0.75	19.0	3.31	84.1	5.18	131.6
SG-FL30-1616	29335-1616	20822084	1	1	1.75	44.5	0.75	19.0	4.151	105.4	6.43	163.4
SG-FL30-1620	29335-1620	20822083	1	1 ¼	2.00	50.8	0.87	22.0	3.54	89.9	5.82	147.9
SG-FL30-1624	29335-1624	20822082	1	1 ½	2.37	60.3	1.06	27.0	4.213	107.0	6.49	165.0
SG-FL30-2020	29335-2020	20926494	1 ¼	1 ¼	2.00	50.8	0.87	22.0	4.25	108.0	7.38	187.6
SG-FL30-2024	29335-2024	20926495	1 ¼	1 ½	2.38	60.3	0.87	22.0	4.25	108.0	7.38	187.6
SG-FL30-2424	29335-2424	20873215	1 ½	1 ½	2.38	60.3	1.18	30.0	5.33	135.4	8.80	223.4
SG-FL30-2432	29335-2432	20873216	1 ½	2	2.81	71.4	1.18	30.0	5.33	135.4	8.80	223.4
SG-FL30-3232	29335-3232	20873188	2	2	2.81	71.4	1.26	32.0	5.71	145.0	9.25	235.0



## Code 61 Flange (SAE J518)

45° Elbow

Part Number	Product Number	SAP Number										
			Hose ID	Flange Size	Flange Diameter (A)		Drop (D)		Cut-Off (C)		Length (L)	
			in.		in.	mm	in.	mm	in.	mm	in.	mm
SG-FL45-0808	29340-0808	20822081	3/4	3/4	1.50	38.1	0.98	25.0	2.72	69.0	5.24	133.0
SG-FL45-0812	29340-0812	20822080	3/4	3/4	1.50	38.1	1.10	28.0	2.80	71.0	4.96	126.0
SG-FL45-1012	29340-1012	20822079	1	1	1.75	44.5	1.38	35.0	3.27	83.0	6.30	160.0
SG-FL45-1212	29340-1212	20822078	1	1	1.75	44.5	1.38	35.0	3.46	88.0	5.98	152.0
SG-FL45-1216	29340-1216	20822077	1	1 ¼	2.00	50.8	1.18	30.0	3.78	96.0	6.77	172.0

Continued on the next page.

### FITTINGS



### Section 2

SG Fittings

#### COMPATIBLE HOSE:

SR12	ARC12	LCP4S	S4SH	XCP5S
SR13	ARC13	LCP6S	XCP3S	XCP6S
SR15	ARC15	S4SP	XCP4S	

For a detailed list, please refer to your Crimp Specifications Manual.

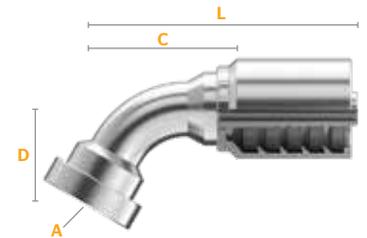
Code 61 Flange (45° Elbow) Continued

Part Number	Product Number	SAP Number										
			Hose ID	Flange Size	Flange Diameter (A)	Drop (D)	Cut-Off (C)	Length (L)				
			in.		in.	mm	in.	mm	in.	mm	in.	mm
SG-FL45-1616	29340-1616	20822076	1 ¼	1 ¼	2.00	50.8	1.28	32.5	3.98	101.0	7.40	188.0
SG-FL45-1620	29340-1620	20822075	1 ¼	1 ¼	2.00	50.8	1.52	38.5	4.09	104.0	7.87	200.0
SG-FL45-2020	29340-2020	20926496	1 ¼	1 ¼	2.00	50.8	1.50	38.1	3.88	98.4	7.01	178.0
SG-FL45-2020S	29340-2020S	20933830	1 ¼	1 ¼	2.00	50.8	1.50	38.1	3.88	98.4	7.01	178.0
SG-FL45-2024	29340-2024	20926497	1 ¼	1 ½	2.37	60.3	1.50	38.1	3.88	98.4	7.01	178.0
SG-FL45-2424	29340-2424	20757724	1 ½	1 ½	2.38	60.3	1.73	44.0	4.37	111.0	7.84	199.0
SG-FL45-2424S	29340-2424S	20933831	1 ½	1 ½	2.38	60.3	1.73	44.0	4.37	111.0	8.27	209.9
SG-FL45-2432	29340-2432	20873217	1 ½	2	2.81	71.4	1.73	44.0	4.37	111.0	8.27	209.9
SG-FL45-3232	29340-3232	20873189	2	2	2.81	71.4	2.21	56.0	6.10	155.0	9.65	245.0
SG-FL45-3232S	29340-3232S	20933832	2	2	2.81	71.4	2.21	56.0	6.10	155.0	9.65	245.0

S=Stainless Steel (See Fitting Identification in Appendix for more information.)

Code 61 Flange (SAE J518)

60° Elbow



Part Number	Product Number	SAP Number										
			Hose ID	Flange Size	Flange Diameter (A)	Drop (D)	Cut-Off (C)	Length (L)				
			in.		in.	mm	in.	mm	in.	mm	in.	mm
SG-FL60-1212	29345-1212	20822074	3/4	3/4	1.50	38.1	1.46	37.1	3.47	88.0	5.336	135.5
SG-FL60-1216	29345-1216	20822073	3/4	1	1.75	44.5	1.73	44.0	3.46	87.9	5.33	135.4
SG-FL60-1616	29345-1616	20822072	1	1	1.75	44.5	1.73	44.0	4.15	105.4	6.43	163.4
SG-FL60-1620	29345-1620	20822071	1	1 ¼	2.00	50.8	2.17	55.0	4.2	106.7	6.48	164.7
SG-FL60-2020	29345-2020	20926498	1 ¼	1 ¼	2.00	50.8	2.20	55.9	5.13	130.2	8.26	209.8
SG-FL60-2024	29345-2024	20926499	1 ¼	1 ½	2.37	60.3	2.20	55.9	5.13	130.2	8.26	209.8
SG-FL60-2424	29345-2424	20873218	1 ½	1 ½	2.37	60.3	2.52	64.0	5.35	135.9	8.82	223.9
SG-FL60-2432	29345-2432	20873219	1 ½	2	2.81	71.4	2.52	64.0	5.35	135.9	8.82	223.9
SG-FL60-3232	29345-3232	20873190	2	2	2.81	71.4	3.27	83.0	5.71	145.0	9.25	235.0

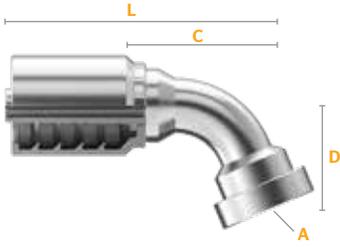


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Section 2  
SG Fittings

FITTINGS

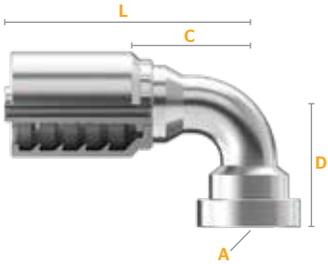




## Code 61 Flange (SAE J518)

67° Elbow

Part Number	Product Number	SAP Number										
			Hose ID	Flange Size	Flange Diameter (A)		Drop (D)		Cut-Off (C)		Length (L)	
			in.		in.	mm	in.	mm	in.	mm	in.	mm
SG-FL67-1212	29347-1212	20822070	3/4	3/4	1.50	38.1	1.65	42.0	3.17	80.4	5.04	127.9
SG-FL67-1216	29347-1216	20822069	3/4	1	1.75	44.5	2.01	51.0	3.46	87.9	5.33	135.4
SG-FL67-1616	29347-1616	20822068	1	1	1.75	44.5	2.4	61.0	3.84	97.6	6.13	155.6
SG-FL67-1620	29347-1620	20822067	1	1 ¼	2.00	50.8	2.52	64.0	3.88	98.6	6.16	156.5
SG-FL67-2020	29347-2020	20926500	1 ¼	1 ¼	2.00	50.8	2.50	63.5	4.50	114.3	7.63	193.9
SG-FL67-2024	29347-2024	20926501	1 ¼	1 ½	2.37	60.3	2.50	63.5	4.50	114.3	7.63	193.9
SG-FL67-2424	29347-2424	20873220	1 ½	1 ½	2.37	60.3	2.91	74.0	5.33	135.4	8.80	223.4
SG-FL67-2432	29347-2432	20873221	1 ½	2	2.81	71.4	2.91	74.0	5.33	135.4	8.80	223.4
SG-FL67-3232	29347-3232	20873191	2	2	2.81	71.4	3.82	97.0	6.30	160.0	9.84	250.0



## Code 61 Flange (SAE J518)

90° Elbow

Part Number	Product Number	SAP Number										
			Hose ID	Flange Size	Flange Diameter (A)		Drop (D)		Cut-Off (C)		Length (L)	
			in.		in.	mm	in.	mm	in.	mm	in.	mm
SG-FL90-0808	29350-0808	20758301	1/2	1/2	1.19	30.2	1.63	41.5	1.89	48.0	3.43	87.0
SG-FL90-0812	29350-0812	20822066	1/2	3/4	1.50	38.1	2.28	55.0	1.89	63.0	3.43	127.0
SG-FL90-1212	29350-1212	20822065	3/4	3/4	1.50	38.1	2.28	58.0	2.36	65.0	4.23	112.5
SG-FL90L-1212	29352-1212	20873193	3/4	3/4	1.50	38.1	5.24	133.0	2.56	65.0	4.43	112.5
SG-FL90-100-1212	29350A-1212	20873157	3/4	3/4	1.50	38.1	3.94	100.0	2.36	59.8	4.23	107.3
SG-FL90-1216	29350-1216	20822064	3/4	1	1.75	44.5	2.76	59.0	2.60	64.0	2.60	128.0
SG-FL90L-1216	29352-1216	20822059	3/4	1	1.75	38.1	6.06	55.0	2.60	69.0	4.47	133.0
SG-FL90-1220	29352-1220	20959263	3/4	1 ¼	2.00	50.8	2.45	62.2	2.75	69.9	4.62	117.3

Continued on the next page.

# FITTINGS



## Section 2

SG Fittings

### COMPATIBLE HOSE:

SR12	ARC12	LCP4S	S4SH	XCP5S
SR13	ARC13	LCP6S	XCP3S	XCP6S
SR15	ARC15	S4SP	XCP4S	

For a detailed list, please refer to your Crimp Specifications Manual.

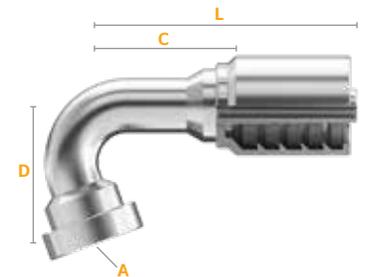
## Code 61 Flange (90° Elbow) Continued

Part Number	Product Number	SAP Number	Hose ID	Flange Size	Flange Diameter (A)		Drop (D)		Cut-Off (C)		Length (L)	
					in.	mm	in.	mm	in.	mm	in.	mm
SG-FL90-1612	29350-1612	20822063	1	3/4	1.50	38.1	2.284	58.0	2.63	66.7	4.91	124.7
SG-FL90-1616	29350-1616	20822062	1	1	1.75	44.5	2.76	64.0	2.97	72.0	5.25	149.0
SG-FL90L-1616	29352-1616	20822058	1	1	1.75	44.5	6.06	64.0	3.97	78.0	6.25	142.0
SG-FL90-120-1616	29350A-1616	20873158	1	1	1.75	44.5	4.72	120.0	2.97	75.4	5.25	133.4
SG-FL90-150-1616	29357B-1616	20923047	1	1	1.75	44.5	6.06	154.0	3.97	100.8	6.25	158.8
SG-FL90-1620	29350-1620	20822061	1	1 ¼	2.00	50.8	3.54	90.0	3.07	78.0	5.35	136.0
SG-FL90-1624	29350-1624	20822060	1	1 ½	2.38	44.5	2.95	64.0	3.74	78.0	6.02	142.0
SG-FL90-2016	29350-2016	20926502	1 ¼	1	1.75	44.5	2.76	70.1	3.35	85.1	6.48	164.7
SG-FL90-2020	29350-2020	20926503	1 ¼	1 ¼	2.00	50.8	3.50	88.9	3.62	92.0	6.76	171.6
SG-FL90-2020S	29350-2020S	20933833	1 ¼	1 ¼	2.00	50.8	3.50	88.9	3.62	92.0	6.76	171.6
SG-FL90-2024	29350-2024	20926504	1 ¼	1 ½	2.38	44.5	3.50	88.9	3.62	92.0	6.76	171.6
SG-FL90-2424	29350-2424	20757723	1 ½	1 ½	2.38	44.5	4.10	104.0	4.13	104.9	7.60	192.9
SG-FL90-2424S	29350-2424S	20933834	1 ½	1 ½	2.38	44.5	4.10	104.0	4.13	104.9	7.99	203.0
SG-FL90-2432	29350-2432	20873222	1 ½	2	2.81	71.4	4.10	104.0	4.13	104.9	7.99	203.0
SG-FL90-3232	29350-3232	20873192	2	2	2.81	71.4	5.43	138.0	5.71	145.0	9.25	235.0
SG-FL90-3232S	29350-3232s	20933835	2	2	2.81	71.4	5.43	138.0	5.71	145.0	9.25	235.0

S=Stainless Steel (See Fitting Identification in Appendix for more information.)

## Code 61 Flange (SAE J518)

110° Elbow



Part Number	Product Number	SAP Number	Hose ID	Flange Size	Flange Diameter (A)		Drop (D)		Cut-Off (C)		Length (L)	
					in.	mm	in.	mm	in.	mm	in.	mm
SG-FL110-1212	29354-1212	20822101	3/4	3/4	1.50	38.1	2.76	70.1	2.52	63.9	4.39	111.4
SG-FL110-1216	29354-1216	20822100	3/4	1	1.75	44.5	2.91	73.9	2.25	57.2	4.12	104.6
SG-FL110-1616	29354-1616	20822099	1	1	1.75	44.5	3.11	79.0	3.81	96.8	6.09	154.8
SG-FL110-2424	29354-2424	20873211	1 ¼	1 ½	2.38	60.6	4.33	110.0	3.74	95.0	7.21	183.0

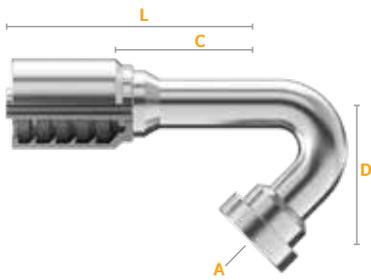


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**Section 2**  
SG Fittings

**FITTINGS**

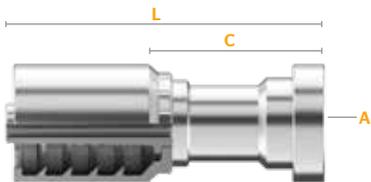




## Code 61 Flange (SAE J518)

135° Elbow

Part Number	Product Number	SAP Number	Hose ID		Flange Size		Flange Diameter (A)		Drop (D)		Cut-Off (C)		Length (L)	
			in.	mm	in.	mm	in.	mm	in.	mm	in.	mm		
SG-FL135-1212	29355-1212	20822095	3/4	19.0	3/4	19.0	1.50	38.1	3.15	80.0	2.83	71.8	4.70	119.3



## Code 62 Flange (SAE J518)

Part Number	Product Number	SAP Number	Hose ID		Flange Size		Flange Diameter (A)		Cut-Off (C)		Length (L)	
			in.	mm	in.	mm	in.	mm	in.	mm		
SG-FH0808	29300-0808	20822132	1/2	12.7	1/2	12.7	1.25	31.8	1.879	47.7	3.41	86.7
SG-FH0812	29300-0812	20822131	1/2	12.7	3/4	19.0	1.63	41.3	2.07	52.8	3.61	91.8
SG-FH-1212	29300-1212	20822130	3/4	19.0	3/4	19.0	1.63	41.3	2.14	54.5	4.01	102.0
SG-FH-1216	29300-1216	20822129	3/4	19.0	1	25.4	1.88	47.6	2.23	56.8	4.105	104.3
SG-FH-1612	29300-1612	20822128	1	25.4	3/4	19.0	1.63	41.3	2.30	58.4	4.58	116.4
SG-FH-1616	29300-1616	20822127	1	25.4	1	25.4	1.88	47.6	2.28	58.0	4.56	116.0
SG-FH-1620	29300-1620	20822126	1	25.4	1 1/4	31.8	2.13	54.0	2.58	65.5	4.86	123.5
SG-FH-2016	29300-2016	20926477	1 1/4	31.8	1	25.4	1.87	47.6	3.26	82.9	6.40	162.5
SG-FH-2020	29300-2020	20926478	1 1/4	31.8	1 1/4	31.8	2.13	54.0	2.53	64.2	5.68	144.3
SG-FH-2024	29300-2024	20926479	1 1/4	31.8	1 1/2	38.1	2.50	63.5	2.99	76.0	6.13	155.6
SG-FH-2424	29300-2424	20757743	1 1/2	38.1	1 1/2	38.1	2.50	63.5	2.99	76.0	6.46	164.0
SG-FH-2432	29320-2432	20757726	1 1/2	38.1	2	50.8	3.13	79.4	Contact Continental			
SG-FH-3232	29300-3232	20833307	1	25.4	2	50.8	3.13	79.4	5.19	131.9	8.73	221.9

## FITTINGS



## Section 2

SG Fittings

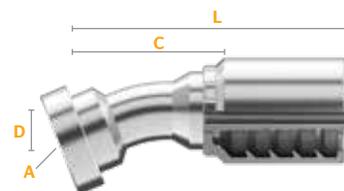
### COMPATIBLE HOSE:

SR12	ARC12	LCP4S	S4SH	XCP5S
SR13	ARC13	LCP6S	XCP3S	XCP6S
SR15	ARC15	S4SP	XCP4S	

For a detailed list, please refer to your Crimp Specifications Manual.

## Code 62 Flange (SAE J518)

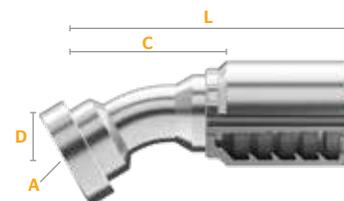
22.5° Elbow



Part Number	Product Number	SAP Number										
			Hose ID	Flange Size	Flange Diameter (A)		Drop (D)		Cut-Off (C)		Length (L)	
			in.		in.	mm	in.	mm	in.	mm	in.	mm
SG-FH22-1212	29303-1212	20822125	3/4	3/4	1.63	41.3	0.55	41.3	3.33	41.3	5.20	41.3
SG-FH22-1216	29303-1216	20822124	3/4	1	1.88	41.3	0.59	41.3	3.39	41.3	5.26	41.3
SG-FH22-1616	29303-1616	20822123	1	1	1.88	41.3	0.55	41.3	4.22	41.3	6.50	41.3
SG-FH22-2020	29303-2020	20926480	1 1/4	1 1/4	2.13	54.0	0.60	15.2	4.50	114.3	7.63	193.9
SG-FH22-2024	29303-2024	20926481	1 1/4	1 1/2	2.50	63.5	0.73	18.5	4.50	114.3	7.63	193.9

## Code 62 Flange (SAE J518)

30° Elbow



Part Number	Product Number	SAP Number										
			Hose ID	Flange Size	Flange Diameter (A)		Drop (D)		Cut-Off (C)		Length (L)	
			in.		in.	mm	in.	mm	in.	mm	in.	mm
SG-FH30-1212	29305-1212	20822122	3/4	3/4	1.63	41.3	0.73	18.5	3.27	83.0	5.14	130.5
SG-FH30-1616	29305-1616	20822121	1	1	1.87	47.6	0.75	19.0	4.15	105.4	6.43	163.4
SG-FH30-2020	29305-2020	20926482	1 1/4	1 1/4	2.13	54.0	0.87	22.0	4.25	108.0	7.38	187.6
SG-FH30-2024	29305-2024	20926483	1 1/4	1 1/2	2.50	63.5	1.02	25.8	4.25	108.0	7.38	187.6
SG-FH30-2424	29305-2424	20757730	1 1/2	1 1/2	2.50	63.5	1.18	30.0	5.33	135.4	8.79	223.4
SG-FH30-3232	29305-3232	20873183	2	2	2.81	71.4	1.32	33.5	5.71	145.0	9.25	235.0

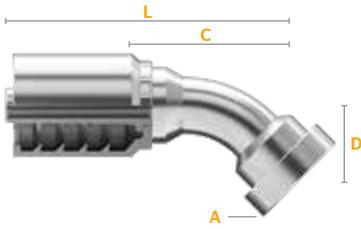


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**Section 2**  
SG Fittings

**FITTINGS**

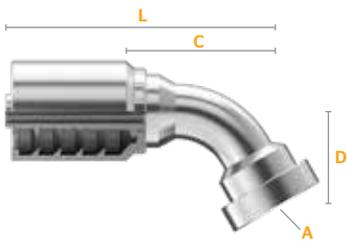




## Code 62 Flange (SAE J518)

45° Elbow

Part Number	Product Number	SAP Number										
			Hose ID	Flange Size	Flange Diameter (A)		Drop (D)		Cut-Off (C)		Length (L)	
			in.		in.	mm	in.	mm	in.	mm	in.	mm
SG-FH45-0808	29310-0808	20822120	1/2	1/2	1.25	31.8	0.86	21.8	2.24	56.9	3.775	95.9
SG-FH45-0812	29310-0812	20822119	1/2	3/4	1.63	41.4	1.083	27.5	2.99	75.8	4.521	114.8
SG-FH45-1212	29310-1212	20822118	3/4	3/4	1.63	41.4	1.12	28.5	2.99	75.8	4.86	123.3
SG-FH45-1216	29310-1216	20822117	3/4	1	1.88	47.6	1.26	32.0	3.07	78.0	4.94	125.5
SG-FH45-1612	29310-1612	20873184	1	3/4	1.63	41.4	1.12	28.5	2.99	75.8	5.27	133.8
SG-FH45-1616	29310-1616	20822116	1	1	1.88	47.6	1.26	32.0	3.842	97.6	6.12	155.6
SG-FH45-1620	29310-1620	20822115	1	1 1/4	2.13	54.1	1.49	38.0	3.78	96.0	6.06	154.0
SG-FH45-2020	29310-2020	20926484	1 1/4	1 1/4	2.13	54.0	1.50	38.1	4.02	102.0	7.15	181.6
SG-FH45-2024	29310-2024	20926485	1 1/4	1 1/2	2.50	63.5	1.63	41.4	4.13	105.0	7.27	184.6
SG-FH45-2424	29310-2424	20757720	1 1/2	1 1/2	2.50	Contact Continental	1.73	44.0	4.80	121.9	8.27	209.9
SG-FH45-2432	29340-2432	20757725	1 1/2	2	3.13		2.05	52.1	4.87	123.7	8.34	211.7
SG-FH45-3232	29340-3232	20873185	2	2	3.13	Contact Continental	2.21	56.0	6.10	155.0	9.65	245.0



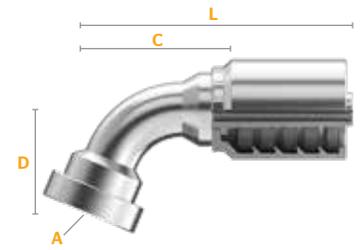
## Code 62 Flange (SAE J518)

60° Elbow

Part Number	Product Number	SAP Number										
			Hose ID	Flange Size	Flange Diameter (A)		Drop (D)		Cut-Off (C)		Length (L)	
			in.		in.	mm	in.	mm	in.	mm	in.	mm
SG-FH60-1212	29312-1212	20822114	3/4	3/4	1.63	41.3	1.55	39.4	3.47	88.0	5.34	135.5
SG-FH60-1616	29312-1616	20822113	1	1	1.87	47.6	1.73	44.0	4.15	105.4	6.43	163.4
SG-FH60-2020	29312-2020	20926486	1 1/4	1 1/4	2.13	54.0	2.20	55.9	5.13	130.2	8.6	209.8
SG-FH60-2024	29312-2024	20926487	1 1/4	1 1/2	2.50	63.5	2.26	57.4	5.13	130.2	8.26	209.8

## Code 62 Flange (SAE J518)

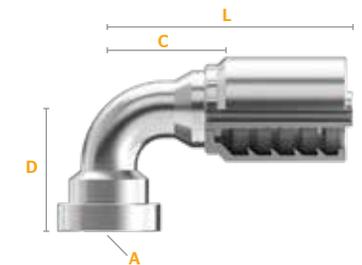
67° Elbow



Part Number	Product Number	SAP Number										
			Hose ID	Flange Size	Flange Diameter (A)		Drop (D)		Cut-Off (C)		Length (L)	
			in.		in.	mm	in.	mm	in.	mm	in.	mm
SG-FH67-1616	29313-1616	20822112	1	1	1.87	47.6	2.40	61.0	3.84	97.6	6.13	155.6
SG-FH67-2020	29313-2020	20926529	1 ¼	1 ¼	2.13	54.0	2.50	63.5	4.50	114.3	7.63	193.9
SG-FH67-2024	29313-2024	20926530	1 ¼	1 ¼	2.50	63.5	2.57	65.2	4.50	114.3	7.63	193.9

## Code 62 Flange (SAE J518)

90° Elbow



Part Number	Product Number	SAP Number											
			Hose ID	Flange Size	Flange Diameter (A)		Elbow Type*	Drop (D)		Cut-Off (C)		Length (L)	
			in.		in.	mm		in.	mm	in.	mm	in.	mm
SG-FH90-0808	29315-0808	20731761	1/2	1/2	1.25	31.8		1.67	42.4	1.89	48.0	3.43	87.0
SG-FH90-080-0808	29317A-0808	20833294	1/2	1/2	1.25	31.8	LT	3.15	80.0	1.99	50.5	3.53	89.5
SG-FH90-0812	29315-0812	20822111	1/2	3/4	1.63	41.4		2.28	58.0	1.89	48.0	3.43	87.0
SG-FH90-1012	29315-1012	20822110	5/8	3/4	1.63	41.4		2.28	58.0	1.97	50.0	3.56	90.5
SG-FH90-1212	29315-1212	20822109	3/4	3/4	1.63	41.3		2.28	58.0	2.36	59.8	4.23	107.3
SG-FH90-100-1212	29317A-1212	20833293	3/4	3/4	1.63	41.3	LT	3.94	100.0	2.40	61.0	4.27	108.5
SG-FH90-122-1212	29317B-1212	20833292	3/4	3/4	1.63	41.3	LT	4.80	122.0	2.80	71.1	4.67	118.6
SG-FH90-1216	29315-1216	20822108	3/4	1	1.88	47.6		2.76	70.0	2.60	66.0	4.47	113.5
SG-FH90-140-1216	29317A-1216	20833291	3/4	1	1.88	47.6	LT	5.51	140.0	2.56	65.0	4.43	112.5
SG-FH90-1612	29315-1612	20822107	1	3/4	1.63	41.3		2.28	58.0	2.87	72.9	5.15	130.9
SG-FH90-1616	29315-1616	20822106	1	1	1.88	47.6		2.76	70.1	2.97	75.4	5.25	133.4
SG-FH90-090-1616	29317A-1616	20833290	1	1	1.88	47.6	LT	3.54	90.0	3.28	83.3	5.56	141.3
SG-FH90-120-1616	29317B-1616	20833229	1	1	1.88	47.6	LT	4.72	120.0	3.04	77.2	5.32	135.2
SG-FH90-1620	29315-1620	20822105	1	1 ¼	2.13	54.0		3.54	90.0	3.07	78.0	5.35	136.0
SG-FH90-2016	29315-2016	20926488	1 ¼	1	1.88	47.6		2.76	70.1	3.35	85.1	6.48	164.7
SG-FH90-2020	29315-2020	20926489	1 ¼	1 ¼	2.13	54.0		3.50	88.9	3.62	92.0	6.76	171.6
SG-FH90-2024	29315-2024	20926490	1 ¼	1 ½	2.50	63.5		3.50	88.9	3.62	92.0	6.76	171.6
SG-FH90-2424	29315-2424	20757498	1 ½	1 ½	2.50	63.5		4.10	104.0	4.53	115.0	7.99	203.0
SG-FH90-2432	29315-2432	20757729	1 ½	2	3.13	79.4		4.50	114.3	4.13	104.9	7.60	192.9
SG-FH90-3232	29315-3232	20873186	2	2	3.13	79.4		5.43	138.0	5.71	145.0	9.25	235.0

\*Elbow Type: LT=Long Tube

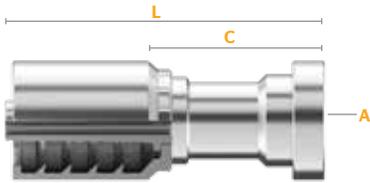


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**Section 2**  
SG Fittings

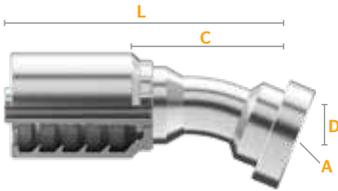
**FITTINGS**





## Caterpillar® Flange

Part Number	Product Number	SAP Number								
			Hose ID	Flange Size	Flange Diameter (A)		Cut-Off (C)		Length (L)	
			in.		in.	mm	in.	mm	in.	mm
SG-CF-1212	29185-1212	20822200	3/4	3/4	1.63	41.3	3.38	85.8	5.25	133.2
SG-CF-1216	29185-1216	20822199	3/4	1	1.88	47.6	3.50	88.9	5.37	136.4
SG-CF-1612	29185-1612	20822198	1	3/4	1.63	41.3	3.47	88.0	5.75	146.0
SG-CF-1616	29185-1616	20822197	1	1	1.88	47.6	3.69	93.8	6.00	152.3
SG-CF-1620	29185-1620	20822196	1	1 ¼	2.13	54.0	3.62	92.0	5.91	150.0
SG-CF-2020	29185-2020	20926460	1 ¼	1 ¼	2.13	54.0	2.55	64.7	5.68	144.3
SG-CF-2024	29185-2024	20926461	1 ¼	1 ½	2.50	63.5	3.58	91.0	6.72	170.6
SG-CF-2424	29185-2424	20873206	1 ½	1 ½	2.50	63.5	3.51	89.0	6.97	177.0
SG-CF-2432	29185-2432	20873226	1 ½	2	3.13	79.4	4.48	113.9	8.03	203.9
SG-CF-3232	29185-3232	20833299	2	2	3.13	79.4	4.48	113.9	8.03	203.9



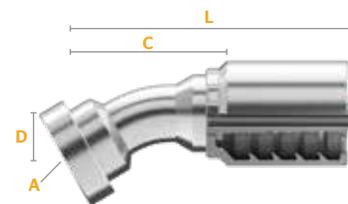
## Caterpillar® Flange

22.5° Elbow

Part Number	Product Number	SAP Number										
			Hose ID	Flange Size	Flange Diameter (A)		Drop (D)	Cut-Off (C)		Length (L)		
			in.		in.	mm	in.	mm	in.	mm	in.	mm
SG-CF22-1212	29187-1212	20822195	3/4	3/4	1.63	41.3	0.63	16.0	3.25	82.6	5.20	132.0
SG-CF22-1616	29187-1616	20822194	1	1	1.88	47.6	0.71	18.0	4.22	107.1	6.50	165.1
SG-CF22-1620	29187-1620	20822193	1	1 ¼	2.13	54.0	0.71	18.0	4.29	109.0	6.57	167.0
SG-CF22-2020	29187-2020	20926462	1 ¼	1 ¼	2.13	54.0	0.77	19.6	4.50	114.3	7.63	193.9
SG-CF22-2024	29187-2024	20926463	1 ¼	1 ½	2.50	63.5	0.76	19.3	4.50	114.3	7.63	193.9

## Caterpillar® Flange

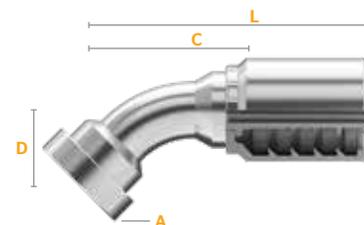
30° Elbow



Part Number	Product Number	SAP Number										
			Hose ID	Flange Size	Flange Diameter (A)		Drop (D)		Cut-Off (C)		Length (L)	
			in.		in.	mm	in.	mm	in.	mm	in.	mm
SG-CF30-1216	29188-1216	20822192	3/4	1	1.87	47.6	0.875	22.2	3.82	97.0	5.69	144.5
SG-CF30-2020	29188-2020	20926464	1 ¼	1 ¼	2.13	54.0	0.97	24.6	4.25	108.0	7.38	187.6
SG-CF30-2024	29188-2024	20926465	1 ¼	1 ½	2.50	63.5	1.06	26.8	4.25	108.0	7.38	187.6

## Caterpillar® Flange

45° Elbow



Part Number	Product Number	SAP Number										
			Hose ID	Flange Size	Flange Diameter (A)		Drop (D)		Cut-Off (C)		Length (L)	
			in.		in.	mm	in.	mm	in.	mm	in.	mm
SG-CF45-1212	29190-1212	20822191	3/4	3/4	1.63	41.4	1.34	34.0	2.99	75.8	4.86	123.3
SG-CF45-1216	29190-1216	20822190	3/4	1	1.88	47.6	1.34	34.0	3.50	88.9	5.37	136.4
SG-CF45-1616	29190-1616	20822189	1	1	1.87	47.6	1.57	39.9	3.84	97.6	6.13	155.6
SG-CF45-1620	29190-1620	20822188	1	1 ¼	2.13	54.0	1.50	38.0	3.86	98.0	6.14	156.0
SG-CF45-2020	29190-2020	20926466	1 ¼	1 ½	2.50	63.5	1.63	41.3	4.10	104.0	7.23	183.6
SG-CF45-2024	29190-2024	20926467	1 ¼	1 ½	2.50	63.5	1.69	42.8	4.17	106.0	7.31	185.6

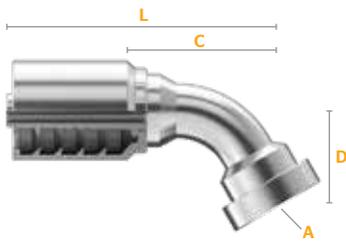


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**Section 2**  
SG Fittings

**FITTINGS**

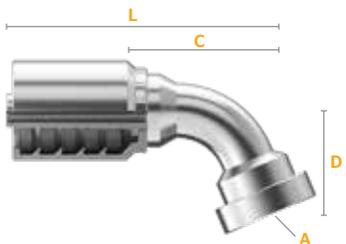




## Caterpillar® Flange

60° Elbow

Part Number	Product Number	SAP Number										
			Hose ID	Flange Size	Flange Diameter (A)		Drop (D)		Cut-Off (C)		Length (L)	
			in.		in.	mm	in.	mm	in.	mm	in.	mm
SG-CF60-1616	29192-1616	20822187	1	1	1.87	47.6	2.09	53.1	4.15	105.4	6.43	163.4
SG-CF60-1620	29192-1620	20822186	1	1 ¼	2.13	54.0	2.17	55.0	4.45	113.0	6.73	171.0
SG-CF60-2020	29192-2020	20926468	1 ¼	1 ¼	2.13	54.4	2.20	55.9	5.13	130.2	8.26	209.8
SG-CF60-2024	29192-2024	20926469	1 ¼	1 ½	2.50	63.5	2.33	59.2	5.13	130.2	8.26	209.8



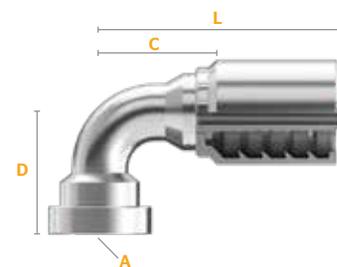
## Caterpillar® Flange

67° Elbow

Part Number	Product Number	SAP Number										
			Hose ID	Flange Size	Flange Diameter (A)		Drop (D)		Cut-Off (C)		Length (L)	
			in.		in.	mm	in.	mm	in.	mm	in.	mm
SG-CF67-2020	29194-2020	20926470	1 ¼	1 ¼	2.13	54.4	2.50	63.5	4.50	114.3	7.63	193.9
SG-CF67-2024	29194-2024	20926471	1 ¼	1 ½	2.50	63.5	2.64	67.1	4.50	114.3	7.63	193.9

## Caterpillar® Flange

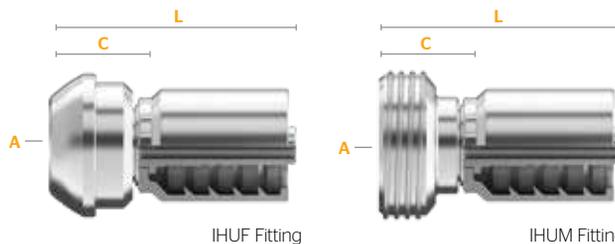
90° Elbow



Part Number	Product Number	SAP Number											
			Hose ID	Flange Size	Flange Diameter (A)	mm	Drop (D)	in.	mm	Cut-Off (C)	in.	mm	Length (L)
SG-CF90-1212	29195-1212	20822185	3/4	3/4	1.63	41.3		2.60	66.0	2.36	59.8	4.22	107.3
SG-CF90-128-1212	29295A-1212	20873154	3/4	3/4	1.63	41.3	LT	5.04	128.0	2.36	59.8	4.22	107.3
SG-CF90-1216	29195-1216	20822184	3/4	1	1.63	41.3		2.76	70.1	2.65	67.3	4.52	114.8
SG-CF90-1616	29195-1616	20822183	1	1	1.87	47.6		3.11	79.0	2.97	75.4	5.25	133.4
SG-CF90L-1616	29197-1616	20822181	1	1	1.87	47.6	LT	5.20	132.1	3.35	85.1	5.63	143.1
SG-CF90-132-1616	29195A-1616	20873155	1	1	1.87	47.6	LT	5.20	132.0	2.97	75.4	5.25	133.4
SG-CF90-1620	29195-1620	20822182	1	1 1/4	2.13	54.0		3.54	90.0	3.07	78.0	5.35	136.0
SG-CF90-132-1620	29195A-1620	20873156	1	1 1/4	2.13	54.0	LT	5.20	132.0	3.07	78.0	5.35	136.0
SG-CF90-2020	29195-2020	20926472	1 1/4	1 1/4	2.13	54.0		3.50	88.9	3.62	92.0	6.76	171.6
SG-CF90-2024	29195-2024	20926473	1	1 1/4	2.13	54.0		3.50	88.9	3.62	92.0	6.76	171.6

\*Elbow Type: LT=Long Tube

## Hammer Union



Part Number	Product Number	SAP Number						
			Hose ID	Thread Size (A)	in.	mm	in.	mm
SG-IHUF1502-1616	29390-1616	20873151	1	1-11 1/2 ACME-2G 3.5 TPI	2.29	58.0	4.57	116.1
SG-IHUM1502-1616	29395-1616	20873152	1	1-11 1/2 ACME-2G 3.5 TPI	2.25	57.2	4.54	115.2
SG-IHUF1502-2432	29390-2432	20851716	1 1/2	2-11 1/2 ACME-2G 3 TPI	3.09	78.5	6.56	166.5
SG-IHUM1502-2432	29395-2432	20851717	1 1/2	2-11 1/2 ACME-2G 3 TPI	2.83	71.9	6.30	159.9
SG-IHUF1502-3232	29390-3232	20833304	2	ACME-2G 3 TPI	2.74	69.5	6.28	159.5
SG-IHUM1502-3232	29395-3232	20833305	2	ACME-2G 3 TPI	2.77	70.2	6.31	160.2

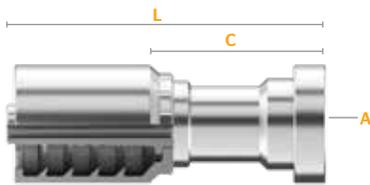


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**Section 2**  
SG Fittings

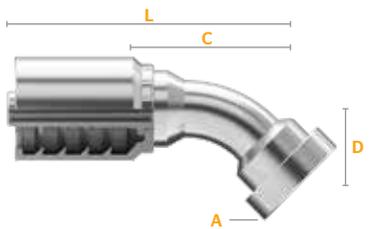
**FITTINGS**





## Komatsu® Flange

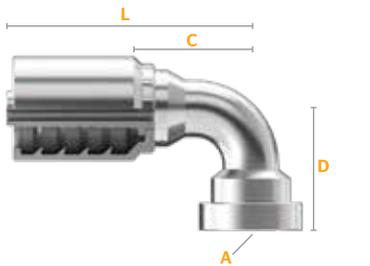
Part Number	Product Number	SAP Number								
			Hose ID	Flange Size	Flange Diameter (A)		Cut-Off (C)		Length (L)	
			in.		in.	mm	in.	mm	in.	mm
SG-KF-0810	29530-0810	20821988	1/2	5/8	1.34	34.0	1.83	46.6	3.39	86.1
SG-KF-1010	29530-1010	20821987	5/8	5/8	1.34	34.0	1.84	46.8	3.44	87.3
SG-KF-1210	29530-1210	20821986	3/4	5/8	1.34	34.0	1.99	50.5	3.86	98.0



## Komatsu® Flange

45° Elbow

Part Number	Product Number	SAP Number										
			Hose ID	Flange Size	Flange Diameter (A)		Drop (D)	Cut-Off (C)		Length (L)		
			in.		in.	mm	in.	mm	in.	mm	in.	mm
SG-KF45-1010	29535-1010	20821985	5/8	5/8	1.34	34.0	0.98	24.9	2.32	58.9	3.91	99.4



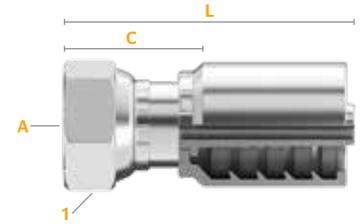
## Komatsu® Flange

90° Elbow

Part Number	Product Number	SAP Number										
			Hose ID	Flange Size	Flange Diameter (A)		Drop (D)	Cut-Off (C)		Length (L)		
			in.		in.	mm	in.	mm	in.	mm	in.	mm
SG-KF90-1010	29540-1010	20821984	5/8	5/8	1.34	34.0	2.01	51.1	1.97	50.0	3.56	90.5
SG-KF90-1210	29540-1210	20821983	3/4	5/8	1.34	34.0	2.01	51.1	2.17	55.1	4.04	102.6

## BSPB (British Standard Pipe Parallel)

Female / Swivel

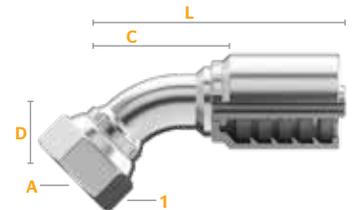


Part Number	Product Number	SAP Number							
			Hose ID	Thread Size (A)	Hex 1 Wrench Size	Cut-Off (C)		Length (L)	
			in.		mm	in.	mm	in.	mm
SG-BPFX-0608	29105-0608	20822223	3/8	1/2-14	27	1.04	26.3	2.49	63.3
SG-BPFX-0808	29105-0808	20731754	1/2	1/2-14	27	1.22	31.0	2.54	64.4
SG-BPFX-0810	29105-0810	20822222	1/2	5/8-14	27	1.15	29.2	2.38	60.5
SG-BPFX-1010	29105-1010	20959261	5/8	5/8-14	27	1.17	29.7	2.67	67.80
SG-BPFX-1212 <sup>T</sup>	29105-1212	20822221	3/4	3/4-14	32	1.39	35.2	3.26	82.7
SG-BPFX-1616 <sup>T</sup>	29105-1616	20822220	1	1-11	38	1.63	41.4	3.91	99.3
SG-BPFX-2020	29105-2020	20926356	1 ¼	1 ¼-11	41	2.39	60.7	5.53	140.5
SG-BPFX-2424	29105-2424	20757733	1 ½	1 ½-11	55	2.80	71.1	6.26	159.1
SG-BPFX-3232	29105-3232	20833296	2	2-11	70	2.54	64.5	6.09	154.6

T=Thrust-Wire Nut (See Fitting Identification in Appendix for more information.)

## BSPB (British Standard Pipe Parallel)

Female / 45° Elbow / Swivel



Part Number	Product Number	SAP Number									
			Hose ID	Thread Size (A)	Hex 1 Wrench Size	Drop (D)		Cut-Off (C)		Length (L)	
			in.		mm	in.	mm	in.	mm	in.	mm
SG-BPFX45-0808	29115-0808	20822218	1/2	1/2-14	27	0.83	21.1	2.17	55.1	3.71	94.1
SG-BPFX45-1212 <sup>T</sup>	29115-1212	20822217	3/4	3/4-14	32	1.08	27.4	2.79	70.8	4.91	124.8
SG-BPFX45-1616 <sup>T</sup>	29115-1616	20822216	1	1-11	38	1.34	34.0	3.31	84.1	5.59	142.1
SG-BPFX45-2020	29115-2020	20926357	1 ¼	1 ¼-11	50	1.57	39.9	4.09	104.0	7.23	183.6
SG-BPFX45-2424	29115-2424	20757734	1 ½	1 ½-11	55	1.81	46.0	4.84	123.0	8.31	211.0
SG-BPFX45-3232	29115-3232	20873179	2	2-11	70	2.76	70.1	6.54	166.2	10.10	256.2

T=Thrust-Wire Nut (See Fitting Identification in Appendix for more information.)

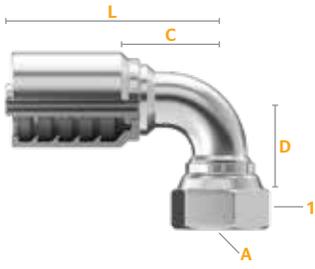


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**Section 2**  
SG Fittings

**FITTINGS**



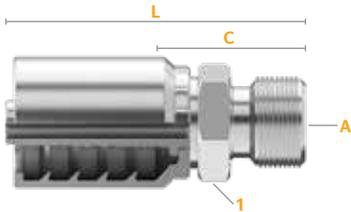


## BSPP (British Standard Pipe Parallel)

Female / 90° Elbow / Swivel

Part Number	Product Number	SAP Number									
			Hose ID	Thread Size (A)	Hex 1 Wrench Size	Drop (D)		Cut-Off (C)		Length (L)	
			in.		mm	in.	mm	in.	mm	in.	mm
SG-BPFX90-0608	29120-0608	20822214	3/8	1/2-14	27	1.40	35.6	1.34	34.0	2.80	71.0
SG-BPFX90-0808	29120-0808	20731763	1/2	1/2-14	27	1.61	40.9	1.42	36.1	2.96	75.1
SG-BPFX90-1212 <sup>T</sup>	29120-1212	20822213	3/4	3/4-14	32	2.24	56.9	2.35	59.7	4.22	107.2
SG-BPFX90-1616 <sup>T</sup>	29120-1616	20822212	1	1-11	38	2.80	71.1	3.04	77.3	5.33	135.3
SG-BPFX90-2020	29120-2020	20926358	1 ¼	1 ¼-11	50	3.27	83.1	3.62	92.0	6.76	171.6
SG-BPFX90-2424	29120-2424	20757732	1 ½	1 ½-11	55	3.78	96.0	4.53	115.0	7.99	203.0
SG-BPFX90-3232	29120-3232	20873180	2	2-11	70	5.51	140.0	5.71	145.0	9.25	235.0

<sup>T</sup>=Thurst Wire Nut (See Fitting Identification in Appendix for more information.)



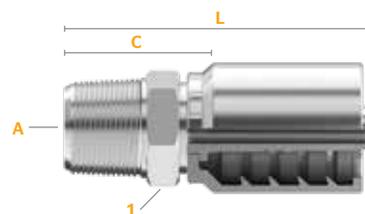
## BSPP (British Standard Pipe Parallel)

Male

Part Number	Product Number	SAP Number							
			Hose ID	Thread Size (A)	Hex 1 Wrench Size	Cut-Off (C)		Length (L)	
			in.		in.	in.	mm	in.	mm
SG-BPM-0606	29130-0606	20822211	3/8	3/8-19	22	1.20	30.5	2.66	67.5
SG-BPM-0608	29130-0608	20822210	3/8	1/2-14	27	1.34	34.0	2.80	71.0
SG-BPM-0806	29130-0806	20822209	1/2	3/8-19	22	1.20	30.5	2.74	69.5
SG-BPM-0808	29130-0808	20822208	1/2	1/2-14	27	1.34	34.0	2.88	73.1
SG-BPM-1212	29130-1212	20822207	3/4	3/4-14	32	1.56	39.6	3.43	87.1
SG-BPM-1616	29130-1616	20822206	1	1-11	36	1.85	47.1	4.14	105.1
SG-BPM-2020	29130-2020	20926359	1 ¼	1 ¼-11	50	2.12	53.8	5.26	133.6
SG-BPM-2424	29130-2424	20757731	1 ½	1 ½-11	50	2.46	62.4	5.92	150.4
SG-BPM-3232	29130-3232	20833303	2	2-11	70	2.81	71.3	6.35	161.3

## BSPT (British Standard Pipe Tapered)

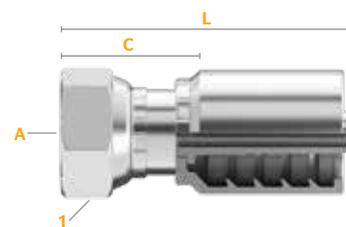
Male



Part Number	Product Number	SAP Number							
			Hose ID	Thread Size (A)	Hex 1 Wrench Size	Cut-Off (C)	Length (L)	in.	mm
SG-BTM-0606	29170-0606	20822205	3/8	3/8-19	22	1.20	30.5	2.65	67.5
SG-BTM-0808	29170-0808	20822204	1/2	1/2-14	27	1.37	34.9	2.91	73.9
SG-BTM-1212	29170-1212	20822203	3/4	3/4-14	22	1.48	37.5	3.347	85.0
SG-BTM-1616	29170-1616	20822202	1	1-11	27	1.89	48.1	4.18	106.1
SG-BTM-3232	29170-3232	20833297	2	2-11	32	2.67	67.9	6.22	157.9

## BSP Flat Seat (British Standard Pipe)

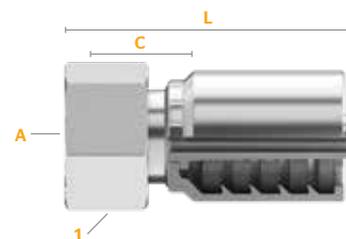
Female / Swivel



Part Number	Product Number	SAP Number							
			Hose ID	Thread Size (A)	Hex 1 Wrench Size	Cut-Off (C)	Length (L)	in.	mm
SG-BFFX-0608	29100-0608	20822227	3/8	1/2-14	27	0.80	20.3	2.26	57.3
SG-BFFX-0808	29100-0808	20822226	1/2	1/2-14	27	0.82	20.9	2.36	59.8
SG-BFFX-0812	29100-0812	20822225	1/2	3/4-14	32	1.00	25.4	2.54	64.4

## DIN 24° Light

Female / Swivel



Part Number	Product Number	SAP Number							
			Hose ID	Thread Size (A)	Hex 1 Wrench Size	Cut-Off (C)	Length (L)	in.	mm
SG-DLFX-0618	29240-0618	20758288	3/8	18x1.5	22	0.91	23.1	2.60	66.0
SG-DLFX-0822	29240-0822	20758302	1/2	22x1.5	27	1.21	30.7	2.46	62.4
SG-DLFX-1230	29240-1230	20822154	3/4	30x2.0	36	1.42	36.0	3.29	83.5

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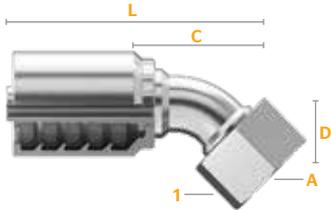
**Section 2**  
SG Fittings

**FITTINGS**



DIN 24° Light (Female) Continued

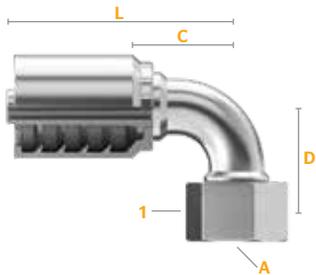
Part Number	Product Number	SAP Number	Hose ID	Thread Size (A)	Hex 1 Wrench Size	Cut-Off (C)		Length (L)	
			in.		mm	in.	mm	in.	mm
SG-DLFX-1236	29240-1236	20822153	3/4	36x2.0	41	1.60	40.7	3.47	88.2
SG-DLFX-1636	29240-1636	20822152	1	36x2.0	41	1.49	37.9	3.60	91.5
SG-DLFX-2045	29240-2045	20926475	1 ¼	45x2.0	50	1.72	43.9	4.86	123.4
SG-DLFX-2452	29240-2452	20873207	1 ½	52x2.0	60	2.07	52.8	5.54	140.7



### DIN 24° Light

Female / 45° Elbow / Swivel

Part Number	Product Number	SAP Number	Hose ID	Thread Size (A)	Hex 1 Wrench Size	Drop (D)		Cut-Off (C)		Length (L)	
			in.		mm	in.	mm	in.	mm	in.	mm
SG-DLFX45-0822	29245-0822	20822150	1/2	22x1.5	27	0.83	21.1	2.17	55.1	3.71	94.1
SG-DLFX45-1230	29245-1230	20822149	3/4	30x2.0	36	1.26	32.0	2.72	69.1	4.59	116.6
SG-DLFX45-1636	29245-1636	20822148	1	36x2.0	41	1.26	32.0	3.58	90.9	5.86	148.9
SG-DLFX45-2452	29245-2452	20873208	1 ½	52x2.0	60	1.85	47.0	4.88	124.0	8.35	212.1



### DIN 24° Light

Female / 90° Elbow / Swivel

Part Number	Product Number	SAP Number	Hose ID	Thread Size (A)	Hex 1 Wrench Size	Drop (D)		Cut-Off (C)		Length (L)	
			in.		mm	in.	mm	in.	mm	in.	mm
SG-DLFX90-0822	29250-0822	20822146	1/2	22x1.5	27	1.59	40.4	1.57	39.9	3.11	78.9
SG-DLFX90-1026	29250-1026	20923048	5/8	26x1.5	32	1.89	48.0	2.01	51.1	3.60	91.4
SG-DLFX90-1230	29250-1230	20822144	3/4	30x2.0	36	2.32	58.9	2.05	52.1	3.92	99.6
SG-DLFX90-1636	29250-1636	20822143	1	36x2.0	41	2.68	68.1	3.07	78.0	5.35	136.0

Continued on the next page.

## FITTINGS



## Section 2

SG Fittings

### COMPATIBLE HOSE:

SR12	ARC12	LCP4S	S4SH	XCP5S
SR13	ARC13	LCP6S	XCP3S	XCP6S
SR15	ARC15	S4SP	XCP4S	

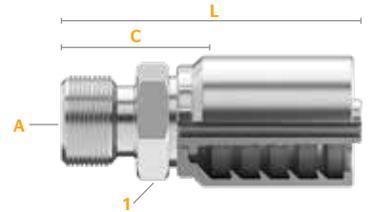
For a detailed list, please refer to your Crimp Specifications Manual.

DIN 24° Light (Female 90° Elbow) Continued

Part Number	Product Number	SAP Number	Hose ID	Thread Size (A)	Hex 1 Wrench Size	Drop (D)		Cut-Off (C)		Length (L)	
			in.		mm	in.	mm	in.	mm	in.	mm
SG-DLFX90-2045	29250-2045	20926476	1 1/4	45x2.0	50	3.50	88.9	3.62	92.0	6.76	171.7
SG-DLFX90-2452	29250-2452	20873209	1 1/2	52x2.0	60	3.84	97.5	4.53	115.0	7.99	203.0
SG-DLFX90XL-2452	29252-2452	20873210	1 1/2	52x2.0	60	8.50	215.9	4.53	115.0	7.99	203.0

### DIN 24° Light

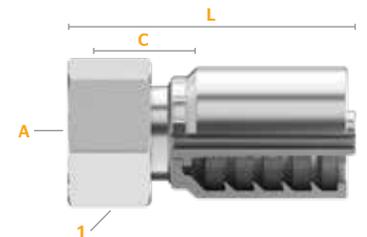
Male



Part Number	Product Number	SAP Number	Hose ID	Thread Size (A)	Hex 1 Wrench Size	Cut-Off (C)		Length (L)	
			in.		mm	in.	mm	in.	mm
SG-DLM-0822	29255-0822	20822140	1/2	22x1.5	22	1.10	28.0	2.64	67.0
SG-DLM-1026	29255-1026	20959265	5/8	26x1.5	27	1.16	29.5	2.76	70.1
SG-DLM-1230	29255-1230	20822139	3/4	30x2.0	32	1.35	34.3	3.22	81.8
SG-DLM-1636	29255-1636	20822138	1	36x2.0	36	1.50	38.2	3.79	96.2

### DIN 24° Heavy

Female / Swivel



Part Number	Product Number	SAP Number	Hose ID	Thread Size (A)	Hex 1 Wrench Size	Cut-Off (C)		Length (L)	
			in.		mm	in.	mm	in.	mm
SG-DHFX-0620	29210-0620	20774066	3/8	20x1.5	24	1.21	30.8	2.67	67.8
SG-DHFX-0622	29210-0622	20822180	3/8	22x1.5	27	1.42	36.2	2.88	73.2
SG-DHFX-0624	29210-0624	20873181	3/8	24x1.5	30	1.473	37.3	2.74	69.6
SG-DHFX-0824	29210-0824	20731609	1/2	24x1.5	30	1.44	36.5	2.79	70.7
SG-DHFX-1030	29210-1030	20822179	5/8	30x2.0	36	1.64	41.7	3.23	82.1

Continued on the next page.



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**Section 2**  
SG Fittings

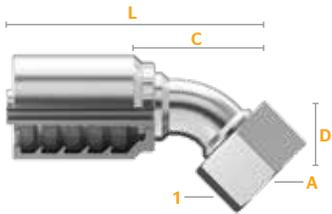
**FITTINGS**



DIN 24° Heavy (Female) Continued

Part Number	Product Number	SAP Number	Hose ID	Thread Size (A)	Hex 1 Wrench Size	Cut-Off (C)		Length (L)	
			in.		mm	in.	mm	in.	mm
SG-DHFX-1230	29210-1230	20822178	3/4	30x2.0	36	1.60	40.7	3.33	84.5
SG-DHFX-1236	29210-1236	20774357	3/4	36x2.0	46	1.89	47.9	3.75	95.4
SG-DHFX-1236S	29210-1236S	20822177	3/4	36x2.0	46	1.89	47.9	3.75	95.4
SG-DHFX-1636	29210-1636	20822176	1	36x2.0	46	2.17	55.1	4.45	113.2
SG-DHFX-1642	29210-1642	20822175	1	42x2.0	50	1.88	47.9	4.16	105.8
SG-DHFX-2052	29210-2052	20926474	1 1/4	52x2.0	60	2.13	54.1	5.26	133.6

S=Stainless Steel (See Fitting Identification in Appendix for more information.)



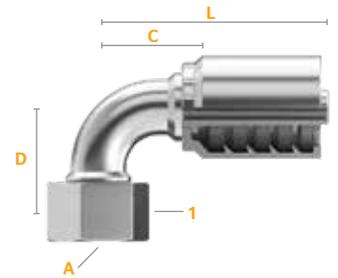
## DIN 24° Heavy

Female / 45° Elbow / Swivel

Part Number	Product Number	SAP Number	Hose ID	Thread Size (A)	Hex 1 Wrench Size	Drop (D)		Cut-Off (C)		Length (L)	
			in.		mm	in.	mm	in.	mm	in.	mm
SG-DHFX45-0620	29215-0620	20822174	3/8	20x1.5	24	0.79	20.1	2.01	51.1	3.46	88.1
SG-DHFX45-0622	29215-0622	20822173	3/8	22x1.5	27	0.83	21.1	2.09	53.1	3.54	90.1
SG-DHFX45-0624	29215-0624	20873182	3/8	24x1.5	30	0.85	21.6	2.19	55.6	3.64	92.7
SG-DHFX45-0824	29215-0824	20822172	1/2	24x1.5	30	0.85	21.6	2.20	55.9	3.73	94.9
SG-DHFX45-1030	29215-1030	20900860	5/8	30x2.0	36	1.18	30.0	2.60	66.0	4.19	106.5
SG-DHFX45-1230	29215-1230	20923060	3/4	30x2.0	36	1.17	29.7	3.33	84.6	5.20	132.1
SG-DHFX45-1236	29215-1236	20822171	3/4	36x2.0	46	1.30	33.0	2.72	69.1	4.59	116.6
SG-DHFX45-1642	29215-1642	20822170	1	42x2.0	50	1.59	40.4	4.33	110.0	6.613	168.0

## DIN 24° Heavy

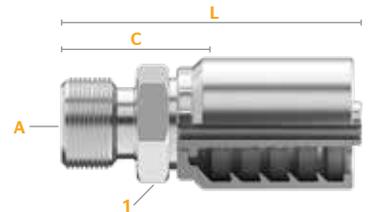
### Female / 90° Elbow / Swivel



Part Number	Product Number	SAP Number	Hose ID		Thread Size (A)		Hex 1 Wrench Size		Drop (D)		Cut-Off (C)		Length (L)	
			in.	mm	in.	mm	in.	mm	in.	mm	in.	mm		
SG-DHFX90-0620	29220-0620	20822169	3/8	20x1.5	24	1.52	38.6	1.34	34.0	2.80	71.0			
SG-DHFX90-0622	29220-0622	20822168	3/8	22x1.5	27	1.59	40.4	1.34	34.0	2.80	71.0			
SG-DHFX90-0824	29220-0824	20731752	1/2	24x1.5	30	1.63	41.4	1.57	39.9	3.11	78.9			
SG-DHFX90-1030	29220-1030	20822167	5/8	30x2.0	36	2.17	55.1	1.97	50.0	3.56	90.5			
SG-DHFX90-1230	29220-1230	20822166	3/4	30x2.0	36	2.28	57.9	2.01	51.1	3.88	98.6			
SG-DHFX90-1236	29220-1236	20822165	3/4	36x2.0	46	2.34	59.4	2.01	51.1	3.88	98.6			
SG-DHFX90-1642	29220-1642	20822163	1	42x2.0	50	3.11	79.0	2.99	75.9	5.27	133.9			
SG-DHFX90-2052	29220-2052	20959264	1 1/4	52x2.0	60	3.98	101.1	3.97	100.8	7.11	180.6			

## DIN 24° Heavy

### Male



Part Number	Product Number	SAP Number	Hose ID		Thread Size (A)		Hex 1 Wrench Size		Cut-Off (C)		Length (L)	
			in.	mm	in.	mm	in.	mm	in.	mm		
SG-DHM-0824	29225-0824	20822160	1/2	24x1.5	24	1.22	31.0	2.76	70.0			
SG-DHM-1030	29225-1030	20900861	5/8	30x2.0	30	1.40	35.6	2.99	75.9			
SG-DHM-1230	29225-1230	20822159	3/4	30x2.0	32	1.44	36.5	3.31	84.0			
SG-DHM-1236	29225-1236	20822158	1	26x2.0	36	1.60	40.6	3.47	88.1			
SG-DHM-1642	29225-1642	20822157	1	42x2.0	46	1.82	46.2	4.10	104.2			

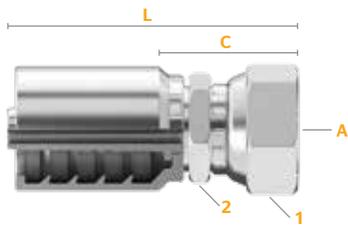


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**Section 2**  
SG Fittings

**FITTINGS**

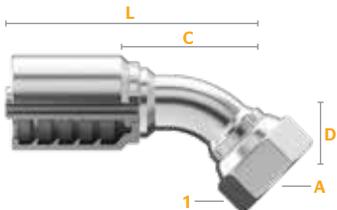




## Komatsu® 30° Flare with Metric Threads

Female / Swivel

Part Number	Product Number	SAP Number	Hose ID		Thread Size (A)		Hex 1 Wrench Size		Hex 2 Wrench Size		Cut-Off (C)		Length (L)	
			in.	mm	in.	mm	mm	mm	in.	mm	in.	mm		
SG-KMFX-0618	29545-0618	20821982	3/8	18x1.5	22	19	1.36	34.6	2.82	71.6				
SG-KMFX-0822	29545-0822	20758298	1/2	22x1.5	27	22	1.47	37.3	3.00	76.3				
SG-KMFX-1024	29545-1024	20821981	5/8	24x1.5	32	30	1.75	44.5	3.35	85.0				
SG-KMFX-1230	29545-1230	20821980	3/4	30x1.5	36	30	1.95	49.5	3.82	97.0				
SG-KMFX-1633	29545-1633	20821979	1	33x1.5	41	36	2.43	61.8	4.72	119.8				
SG-KMFX-2036	29545-2036	20926514	1 ¼	36x1.5	46	41	2.72	69.2	5.86	148.8				
SG-KMFX-2442	29545-2442	20873196	1 ½	42x1.5	55	55	3.09	78.5	6.55	166.5				



## Komatsu® 30° Flare with Metric Threads

Female / 45° Elbow / Swivel

Part Number	Product Number	SAP Number	Hose ID		Thread Size (A)		Hex 1 Wrench Size		Drop (D)		Cut-Off (C)		Length (L)	
			in.	mm	in.	mm	in.	mm	in.	mm	in.	mm		
SG-KMFX45-0618	29548-0618	20821978	3/8	18x1.5	22	0.71	18.0	1.73	43.9	3.19	80.9			
SG-KMFX45-0822	29548-0822	20821977	1/2	22x1.5	27	1.16	29.5	2.20	55.9	3.74	94.9			

## FITTINGS



## Section 2

SG Fittings

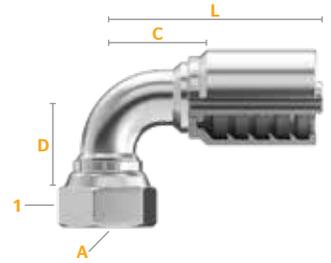
### COMPATIBLE HOSE:

SR12	ARC12	LCP4S	S4SH	XCP5S
SR13	ARC13	LCP6S	XCP3S	XCP6S
SR15	ARC15	S4SP	XCP4S	

For a detailed list, please refer to your Crimp Specifications Manual.

# Komatsu® 30° Flare with Metric Threads

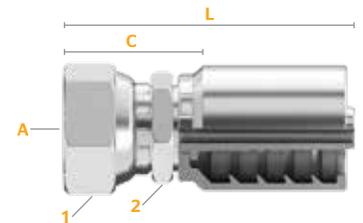
Female / 90° Elbow / Swivel



Part Number	Product Number	SAP Number									
			Hose ID	Thread Size (A)	Hex 1 Wrench Size	Drop (D)	Cut-Off (C)	Length (L)			
			in.		mm	in.	mm	in.	mm		
SG-KMFX90-0618	29550-0618	20821976	3/8	18x1.5	22	1.40	35.6	1.42	36.1	2.88	73.1
SG-KMFX90-0822	29550-0822	20821975	1/2	22x1.5	27	2.09	53.1	1.74	44.1	3.27	83.1

# JIS 30° (Parallel Pipe Threads)

Female / Swivel



Part Number	Product Number	SAP Number								
			Hose ID	Thread Size (A)	Hex 1 Wrench Size	Hex 2 Wrench Size	Cut-Off (C)	Length (L)		
			in.		mm	mm	in.	mm		
SG-JSFX-0606	29520-0606	20821992	3/8	3/8-19	22	19	1.36	34.6	2.82	71.6
SG-JSFX-0808	29520-0808	20821991	1/2	1/2-14	27	22	1.47	37.2	3.00	76.3
SG-JSFX-1212	29520-1212	20821990	3/4	3/4-14	36	30	1.70	43.1	3.57	90.6
SG-JSFX-1616	29520-1616	20821989	1	1-11	41	36	2.05	52.1	4.33	110.1
SG-JSFX-2020	29520-2020	20926513	1 1/4	1 1/4-11	50	41	2.35	59.7	5.48	139.2



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**Section 2**  
SG Fittings

**FITTINGS**



# SECTION 3 - S6, SE AND DG FITTINGS

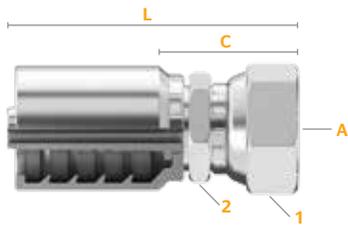
This section lists all fittings compatible with the following hose:

Hose	Description	Compatible Dash Size	Hose	Description	Compatible Dash Size
SR13	SAE 100R13 / EN 856 R13	Hose dash sizes -24 and -32	ARC15	SAE 100R15	All hose dash sizes
ARC13	SAE 100R13	All hose dash sizes	XCP5S	SAE 100R13	All hose dash sizes
SR15	SAE 100R15	All hose dash sizes	XCP6S	SAE 100R15 / EN 856 4SP	All hose dash sizes

## How to Use the Fittings Table

The fittings in this section will follow a similar table structure to the one seen on this page.

Fitting dimensions and attributes are explained below.



## Fitting Name

Fitting Description

Part Number	Product Number	SAP Number											
			Hose ID	Thread Size (A)	Hex 1 Wrench Size	Hex 2 Wrench Size	Cut-Off (C)	Length (L)	Skive Type*				
			in.		in.	mm	in.	mm	in.	mm			
S6-JCFX-2424	30400-2424	20241922	1 1/2	1 3/8 -12	2 3/16	55	2	50	1.94	49.4	5.94	151.0	NS
S6-JCFX-3232	30400-3232	20242040	2	2 1/2 -12	2 13/16	70	2 13/16	70	2.58	65.5	6.51	165.4	NS

\*NS=Non-Skive

### Fitting Dimensions and Attributes

**Part Number** See Hydraulic Fittings Nomenclature on page 128 for a breakdown of part number attributes

**Hose ID** The compatible Hose ID

**Tube ID** The compatible Tube ID

**Thread Size** The thread size or sizes available for a particular fitting dash size (indicated by **A** in the fitting image)

**Hex Size** The wrench size for one or both nuts on the fitting (indicated by **1** or **2** in the fitting image)

**Drop** The length of the elbow (indicated by **D** in the fitting image)

**Cut-Off** The amount of hose to be cut for a correct assembly length (indicated by **C** in the fitting image)

**Length** The overall length of the fitting

**Skive Type** For applicable fittings, a skive type will be indicated as Skive, Non-Skive or Dual-Grip

Choose fittings carefully, considering the working pressure of both the hose and fitting. The maximum working pressure of the hose assembly is the lesser of the rated working pressure of the hose and the fitting. See page 333 for the Fittings Working Pressure Guide.

## FITTINGS



### Section 3

S6, SE, DG Fittings

#### COMPATIBLE HOSE:

SR13                      SR15                      XCP5S  
ARC13                      ARC15                      XCP6S

For a detailed list, please refer to your Crimp Specifications Manual.

# S6 and DG Fittings Overview

A complete overview of all S6 and DG fittings found in this section.

<p><b>JIC 37° Flare (SAE J514)</b> Uni-Crimp™ &amp; Dual-Grip Female Swivel</p>  <p>S6-JCFX P. 219</p>	<p><b>JIC 37° Flare (SAE J514)</b> Female 45° Elbow Swivel</p>  <p>S6-JCFX45 P. 219</p>	<p><b>JIC 37° Flare (SAE J514)</b> Uni-Crimp™ &amp; Dual-Grip Female Swivel</p>  <p>S6-JCFX90 P. 220</p>	<p><b>JIC 37° Flare (SAE J514)</b> Uni-Crimp™ &amp; Dual-Grip Male</p>  <p>S6-JCM P. 221</p>
<p><b>NPTF</b> Uni-Crimp™ &amp; Dual-Grip Male</p>  <p>S6-NPM P. 222</p>	<p><b>NPM API</b> Uni-Crimp™ &amp; Dual-Grip Male</p>  <p>S6-NPMAPI P. 223</p>	<p><b>O-Ring Face Seal</b> Uni-Crimp™ &amp; Dual-Grip Female Swivel</p>  <p>S6-OFFX P. 224</p>	<p><b>O-Ring Face Seal</b> Female 45° Elbow Swivel</p>  <p>S6-OFFX45 P. 224</p>
<p><b>O-Ring Face Seal</b> Uni-Crimp™ &amp; Dual-Grip Female 90° Elbow Swivel</p>  <p>S6-OFFX90 P. 225</p>	<p><b>O-Ring Face Seal</b> Male</p>  <p>S6-OFM P. 225</p>	<p><b>Code 61 Flange</b> Uni-Crimp™ &amp; Dual-Grip</p>  <p>S6-FL P. 226</p>	<p><b>Code 61 Flange</b> 22.5° Elbow</p>  <p>S6-FL22 P. 226</p>
<p><b>Code 61 Flange (SAE J518)</b> Uni-Crimp™ &amp; Dual-Grip 30° Elbow</p>  <p>S6-FL30 P. 227</p>	<p><b>Code 61 Flange (SAE J518)</b> Uni-Crimp™ &amp; Dual-Grip 45° Elbow</p>  <p>S6-FL45 P. 228</p>	<p><b>Code 61 Flange (SAE J518)</b> 60° Elbow</p>  <p>S6-FL60 P. 228</p>	<p><b>Code 61 Flange (SAE J518)</b> 67° Elbow</p>  <p>S6-FL67 P. 229</p>
<p><b>Code 61 Flange (SAE J518)</b> Uni-Crimp™ &amp; Dual-Grip 90° Elbow</p>  <p>S6-FL90 P. 229</p>	<p><b>Code 62 Flange (SAE J518)</b> Uni-Crimp™ &amp; Dual-Grip</p>  <p>S6-FH P. 230</p>	<p><b>Code 62 Flange (SAE J518)</b> 22.5° Elbow</p>  <p>S6-FH22 P. 230</p>	<p><b>Code 62 Flange (SAE J518)</b> 30° Elbow</p>  <p>S6-FH30 P. 231</p>
<p><b>Code 62 Flange (SAE J518)</b> Uni-Crimp™ &amp; Dual-Grip 45° Elbow</p>  <p>S6-FH45 P. 231</p>	<p><b>Code 62 Flange (SAE J518)</b> 60° Elbow</p>  <p>S6-FH60 P. 232</p>	<p><b>Code 62 Flange (SAE J518)</b> Uni-Crimp™ &amp; Dual-Grip 90° Elbow</p>  <p>S6-FH90 P. 232</p>	<p><b>Caterpillar® Flange</b></p>  <p>S6-CF P. 233</p>
<p><b>Caterpillar® Flange</b> 22.5° Elbow</p>  <p>S6-CF22 P. 233</p>	<p><b>Caterpillar® Flange</b> 30° Elbow</p>  <p>S6-CF30 P. 234</p>	<p><b>Caterpillar® Flange</b> 45° Elbow</p>  <p>S6-CF45 P. 234</p>	<p><b>Caterpillar® Flange</b> 60° Elbow</p>  <p>S6-CF60 P. 235</p>



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**Section 3**  
S6, SE, DG Fittings

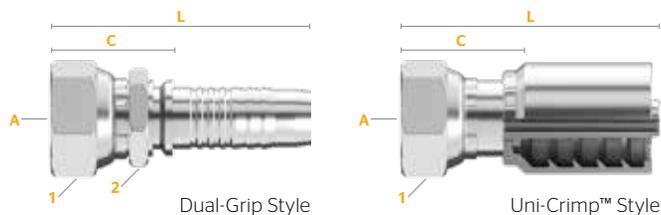
## S6 and DG Fittings Overview

A complete overview of all S6 and DG fittings found in this section.

<p><b>Caterpillar® Flange</b> 90° Elbow</p>  <p>S6-CF90 P. 235</p>	<p><b>IHUF Hammer Union</b></p>  <p>S6-IHUF P. 236</p>	<p><b>IHUM Hammer Union</b></p>  <p>S6-IHUM P. 236</p>	<p><b>British Standard Pipe Parallel</b> Uni-Crimp™ &amp; Dual-Grip Female Swivel</p>  <p>S6-BPFX P. 236</p>
<p><b>British Standard Pipe Parallel</b> Uni-Crimp™ &amp; Dual-Grip Female 45° Elbow Swivel</p>  <p>S6-BPFX45 P. 237</p>	<p><b>British Standard Pipe Parallel</b> Uni-Crimp™ &amp; Dual-Grip Female 90° Elbow Swivel</p>  <p>S6-BPFX90 P. 238</p>	<p><b>British Standard Pipe Parallel</b> Male</p>  <p>S6-BPM P. 239</p>	<p><b>British Standard Pipe Tapered</b> Male</p>  <p>S6-BTM P. 239</p>

# JIC 37° Flare (SAE J514)

Female / Swivel



## Uni-Crimp™ Style

Part Number	Product Number	SAP Number								Hose ID		Thread Size (A)		Hex 1 Wrench Size		Hex 2 Wrench Size		Cut-Off (C)		Length (L)		Skive Type*
			Hose ID	Thread Size (A)	Hex 1 Wrench Size	Hex 2 Wrench Size	Cut-Off (C)	Length (L)	Skive Type*	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	NS
S6-JCFX-2424	30400-2424	20241922	1 ½	1 7/8 -12	2 3/16	55	2	50	1.94	49.4	5.94	151.0	NS									
SE-JCFX-2424 <sup>T</sup>	46400-2424	21041060	1 ½	1 7/8 -12	2 3/16	55	2	50					NS									
S6-JCFX-3232	30400-3232	20242040	2	2 ½ -12	2 1/16	70	2 13/16	70	2.58	65.5	6.51	165.4	NS									
SE-JCFX-3232 <sup>T</sup>	46400-3232	21041066	2	2 ½ -12	2 1/16	70	2 13/16	70	1.60	40.6	6.10	154.9	NS									

T=Thrust-Wire Nut (See Fitting Identification in Appendix for more information.) \*NS=Non-Skive

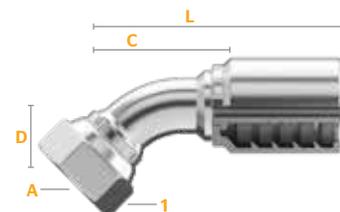
## Dual-Grip Style

Part Number	Product Number	SAP Number	Hose ID	Thread Size (A)	Hex 1 Wrench Size		Cut-Off (C)		Length (L)		Skive Type*
					in.	mm	in.	mm	in.	mm	DG
DG-JCFX-2424 <sup>T1</sup>	16400-2424	20242432	1 ½	1 7/8 -12	2 3/16	55	1.14	29.0	5.47	139.0	DG
DG-JCFX-3232 <sup>T1</sup>	16400-3232	20254272	2	2 ½ -12	2 13/16	70	1.34	34.0	6.10	155.0	DG

T=Thrust-Wire Nut 1=Single Hex (See Fitting Identification in Appendix for more information.) \*DG=Dual-Grip

# JIC 37° Flare (SAE J514)

Female / 45° Elbow / Swivel



Part Number	Product Number	SAP Number								Hose ID		Thread Size (A)		Drop (D)	Cut-Off (C)		Length (L)		Skive Type*
			Hose ID	Thread Size (A)	Hex 1 Wrench Size	Drop (D)	Cut-Off (C)	Length (L)	Skive Type*	in.	mm	in.	mm	in.	mm	in.	mm	NS	
S6-JCFX45-2424	30420-2424	20424976	1 ½	1 7/8 -12	2 3/16	55	1.71	43.5	4.65	118.0	8.64	219.5	NS						
SE-JCFX45-2424 <sup>T</sup>	46420-2424	21041082	1 ½	1 7/8 -12	2 3/16	55	1.71	43.5	4.79	121.5	8.53	216.5	NS						
S6-JCFX45-3232	30420-3232	20788106	2	2 ½ -12	2 1/16	70	2.76	70.1	6.54	166.1	10.47	266.7	NS						
SE-JCFX45-3232 <sup>T</sup>	46420-3232	21041089	2	2 ½ -12	2 1/16	70	2.76	70.0	6.54	166.1	11.04	280.5	NS						

T=Thrust-Wire Nut (See Fitting Identification in Appendix for more information.) \*NS=Non-Skive

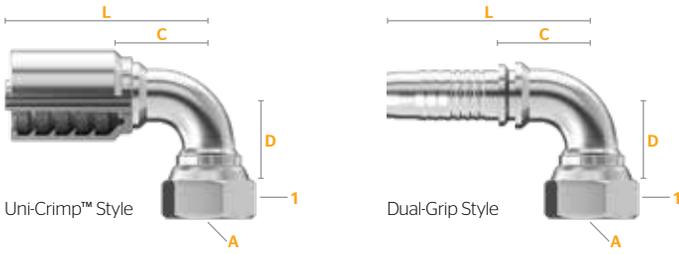


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**Section 3**  
S6, SE, DG Fittings

**FITTINGS**





## JIC 37° Flare (SAE J514)

Female / 90° Elbow / Swivel

### Uni-Crimp™ Style

Part Number	Product Number	SAP Number	Hose ID		Hex 1 Wrench Size		Drop (D)		Cut-Off (C)		Length (L)		Skive Type*
			in.	Thread Size (A)	in.	mm	in.	mm	in.	mm	in.	mm	
S6-JCFX90-2424	30425-2424	20241905	1 ½	1 ⅞-12	2 ⅜	55	3.62	92.0	4.13	105.0	7.40	188.0	NS
SE-JCFX90-2424 <sup>T</sup>	46425-2424	21041071	1 ½	1 ⅞-12	2 ⅜	55	3.62	92.0	4.86	123.4	8.60	218.4	NS
S6-JCFX90-3232	30425-3232	20788107	2	2 ½-12	2 ⅜	70	5.51	140.2	5.71	145.0	9.64	244.9	NS
SE-JCFX90-3232 <sup>T</sup>	46425-3232	21041091	2	2 ½-12	2 ⅜	70	5.51	140.2	5.71	145.0	10.21	259.3	NS

T=Thrust-Wire Nut (See Fitting Identification in Appendix for more information.) \*NS=Non-Skive

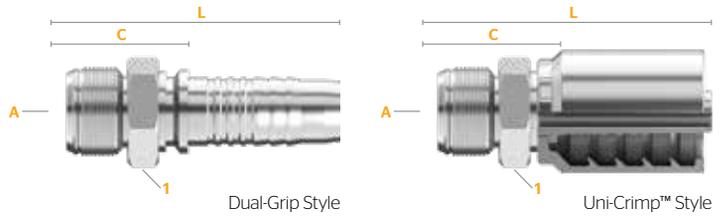
### Dual-Grip Style

Part Number	Product Number	SAP Number	Hose ID		Hex 1 Wrench Size		Drop (D)		Cut-Off (C)		Length (L)		Skive Type*
			in.	Thread Size (A)	in.	mm	in.	mm	in.	mm	in.	mm	
DG-JCFX90-2424 <sup>T</sup>	16425-2424	20254277	1 ½	1 ⅞-12	2 ⅜	55	3.62	92.0	3.70	94.0	7.28	185.0	DG

T=Thrust-Wire Nut (See Fitting Identification in Appendix for more information.) \*DG=Dual-Grip

# JIC 37° Flare (SAE J514)

Male



## Uni-Crimp™ Style



Part Number	Product Number	SAP Number	Hose ID	Thread Size (A)	Hex 1 Wrench Size		Cut-Off (C)		Length (L)		Skive Type*
					in.	mm	in.	mm	in.	mm	
S6-JCM-2424	30450-2424	20424981	1 ½	1 7/8-12	2	50	2.26	57.5	5.53	140.5	NS
SE-JCM-2424	46450-2424	21041087	1 ½	1 7/8-12	2	50	2.42	61.5	6.18	157.0	NS
S6-JCM-3232	30450-3232	20788108	2	2 ½-12	2 9/16	70	2.83	71.8	6.76	171.6	NS
SE-JCM-3232	46450-3232	21041117	2	2 ½-12	2 9/16	70	2.83	71.8	7.33	186.1	NS

\*NS=Non-Skive

## Dual-Grip Style

Part Number	Product Number	SAP Number	Hose ID	Thread Size (A)	Hex 1 Wrench Size		Cut-Off (C)		Length (L)		Skive Type*
					in.	mm	in.	mm	in.	mm	
DG-JCM-2424	16450-2424	20242352	1 ½	1 7/8-12	2	50	1.54	39.0	5.57	141.5	DG

\*DG=Dual-Grip

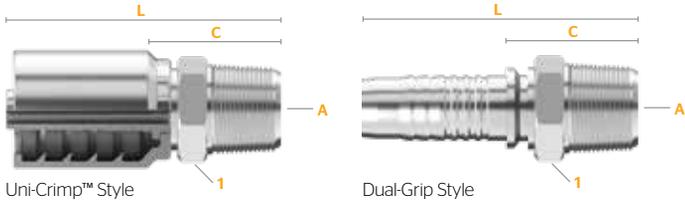


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**Section 3**  
S6, SE, DG Fittings

**FITTINGS**





# NPTF

Male

## Uni-Crimp™ Style

Part Number	Product Number	SAP Number									
			Hose ID	Thread Size (A)	Hex 1 Wrench Size	Cut-Off (C)	Length (L)	Skive Type*			
			in.		in.	mm	in.	mm			
S6-NPM-2424	30615-2424	20293313	1 ½	1 ½ - 11 ½	2	50	2.19	55.5	5.45	138.5	NS
SE-NPM-2424	46615-2424	21041063	1 ½	1 ½ - 11 ½	2	50	2.39	60.7	6.13	155.7	NS
S6-NPM-2432	30615-2432	20864301	1 ½	2-11 ½	2 ½	64	2.35	59.6	5.61	142.5	NS
SE-NPM-2432	46615-2432	21041111	1 ½	2-11 ½	2 ½	64	2.48	63.0	6.22	158.0	NS
S6-NPM-3232	30615-3232	20293314	2	2-11 ½	2 ⅞	70	2.53	64.1	6.45	163.9	NS
SE-NPM-3232	46615-3232	21041064	2	2-11 ½	2 ⅞	70	2.53	64.3	7.03	178.5	NS

\*NS=Non-Skive

## Dual-Grip Style

Part Number	Product Number	SAP Number	Hose ID	Thread Size (A)	Hex 1 Wrench Size		Cut-Off (C)		Length (L)		Skive Type*
					in.	mm	in.	mm	in.	mm	
DG-NPM-1616	16615-1616	20242518	1	1-11 ½	1 ⅞	36	1.34	34.0	4.67	118.5	DG
DG-NPM-2020	16615-2020	20242437	1 ¼	1 ¼ - 11 ½	1 ⅞	46	1.41	35.8	5.24	133.0	DG
DG-NPM-2424	16615-2424	20242354	1 ½	1 ½ - 11 ½	2	50	1.56	39.5	5.49	139.5	DG
DG-NPM-3232	16615-3232	20242401	2	2-11 ½	2 ⅞	65	1.54	39.2	5.91	150.2	DG

\*DG=Dual-Grip

# FITTINGS



## Section 3

S6, SE, DG Fittings

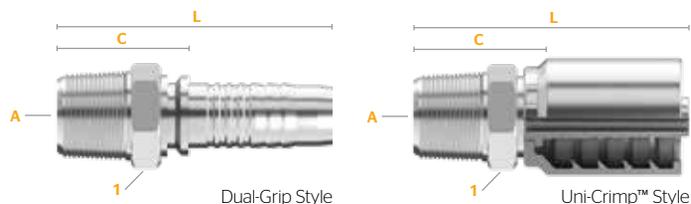
### COMPATIBLE HOSE:

SR13	SR15	XCP5S
ARC13	ARC15	XCP6S

For a detailed list, please refer to your Crimp Specifications Manual.

# NPM API

Male



## Uni-Crimp™ Style

Part Number	Product Number	SAP Number	Hose ID	Thread Size (A)	Hex 1 Wrench Size		Cut-Off (C)		Length (L)		Skive Type*
					in.	mm	in.	mm	in.	mm	
S6-NPM-API-2424	30617-2424	20466174	1 ½	1 ½-11 ½	2	50	3.27	83.0	6.54	166.0	NS
SE-NPM-API-2424	46617-2424	21041088	1 ½	1 ½-11 ½	2	50	3.41	86.6	7.15	181.6	NS
S6-NPM-API-3232	30618-3232	20679658	2	2-11 ½	2 ⅜	70	4.20	106.8	8.13	206.6	NS
SE-NPM-API-3232	46617-3232	21041009	2	2-11 ½	2 ⅜	70	4.21	106.9	8.71	221.2	NS

\*NS=Non-Skive

## Dual-Grip Style

Part Number	Product Number	SAP Number	Hose ID	Thread Size (A)	Hex 1 Wrench Size		Cut-Off (C)		Length (L)		Skive Type*
					in.	mm	in.	mm	in.	mm	
DG-NPM-API-3232	16630-3232	20466175	2	2-11 ½	2 ⅜	65	3.76	95.5	7.58	192.5	DG

\*DG=Dual-Grip

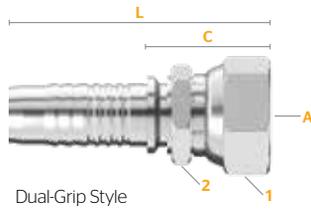
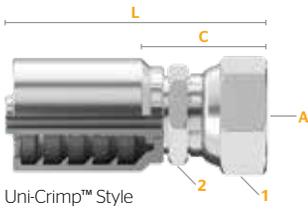


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**Section 3**  
S6, SE, DG Fittings

**FITTINGS**





## O-Ring Face Seal (SAE J1453 ORS/ORFS)

Female / Swivel

### Uni-Crimp™ Style

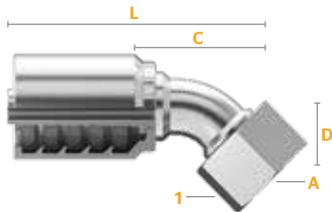
Part Number	Product Number	SAP Number	Thread		Hex 1		Hex 2		Cut-Off (C)		Length (L)		Skive Type*
			Hose ID	Size (A)	Wrench Size	Wrench Size	in.	mm	in.	mm	in.	mm	
S6-OFFX-2424	30700-2424	20297684	1 1/2	2-12	2 3/8	60	2	50	2.46	62.5	6.36	161.5	NS
SE-OFFX-2424	46710-2424	21041093	1 1/2	2-12	2 3/8	60	2	50	4.87	123.6	8.61	218.6	NS

\*NS=Non-Skive

### Dual-Grip Style

Part Number	Product Number	SAP Number	Thread		Hex 1		Hex 2		Cut-Off (C)		Length (L)		Skive Type*
			Hose ID	Size (A)	Wrench Size	Wrench Size	in.	mm	in.	mm	in.	mm	
DG-OFFX-2424	16700-2424	20297682	1 1/2	2-12	2 3/8	60	2	50	2.05	52.0	6.28	159.5	DG

\*DG=Dual-Grip



## O-Ring Face Seal (SAE J1453 ORS/ORFS)

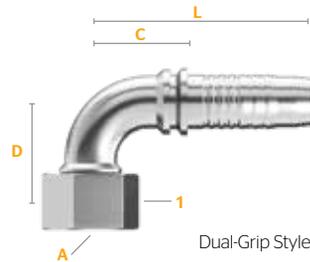
Female / 45° Elbow / Swivel

Part Number	Product Number	SAP Number	Thread		Hex 1		Drop (D)	Cut-Off (C)		Length (L)		Skive Type*	
			Hose ID	Size (A)	Wrench Size	Wrench Size		in.	mm	in.	mm		
S6-OFFX45-2424	30710-2424	20424986	1 1/2	2-12	2 3/8	60	1.65	42.0	4.53	115.0	8.03	203.9	NS
SE-OFFX45-2424	46710-2424	21041093	1 1/2	2-12	2 3/8	60	1.65	42.0	4.90	124.4	8.64	219.4	NS

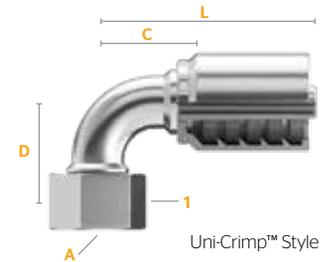
\*NS=Non-Skive

# O-Ring Face Seal (SAE J1453 ORS/ORFS)

Female / 90° Elbow / Swivel



Dual-Grip Style



Uni-Crimp™ Style

## Uni-Crimp™ Style

Part Number	Product Number	SAP Number	Hose ID		Thread Size (A)		Hex 1 Wrench Size		Drop (D)		Cut-Off (C)		Length (L)		Skive Type*
			in.	mm	in.	mm	in.	mm	in.	mm	in.	mm			
S6-OFFX90-2424	30715-2424	20297685	1 ½		2-12	2 ¾	60	3.80	96.5	5.12	130.0	8.39	213.0	NS	
SE-OFFX90-2424	46715-2424	21041085	1 ½		2-12	2 ¾	60	4.07	103.4	5.26	133.5	9.00	228.5	NS	

\*NS=Non-Skive

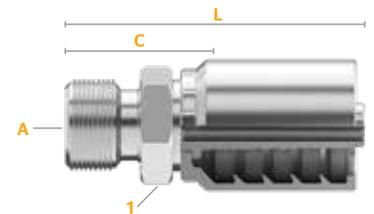
## Dual-Grip Style

Part Number	Product Number	SAP Number	Hose ID		Thread Size (A)		Hex 1 Wrench Size		Drop (D)		Cut-Off (C)		Length (L)		Skive Type*
			in.	mm	in.	mm	in.	mm	in.	mm	in.	mm			
DG-OFFX90-2424 <sup>c</sup>	16715-2024	20297683	1 ½		2-12	2 ¾	60	3.31	84.0	3.90	99.0	7.52	191.0	DG	

C=Crimp Nut (See Fitting Identification in Appendix for more information.) \*DG=Dual-Grip

# O-Ring Face Seal (SAE J1453 ORS/ORFS)

Male



Part Number	Product Number	SAP Number	Hose ID		Thread Size (A)		Hex 1 Wrench Size		Cut-Off (C)		Length (L)		Skive Type*
			in.	mm	in.	mm	in.	mm	in.	mm			
S6-OFM-2424	30730-2424	20424993	1 ½		2-12	2 ¾	55	1.91	48.5	5.18	131.5	NS	
SE-OFM-2424	46746-2424	21041121	1 ½		2-12	2 ¾	55	2.63	66.9	6.37	161.9	NS	

\*NS=Non-Skive

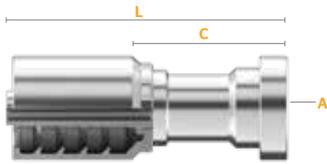


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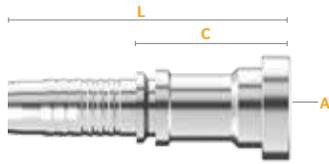
**Section 3**  
S6, SE, DG Fittings

**FITTINGS**





Uni-Crimp™ Style



Dual-Grip Style

## Code 61 Flange (SAE J518)

### Uni-Crimp™ Style

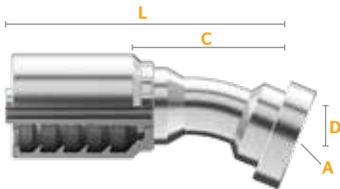
Part Number	Product Number	SAP Number									Skive Type*
			Hose ID	Flange Size	Flange Diameter (A)		Cut-Off (C)		Length (L)		
			in.		in.	mm	in.	mm	in.	mm	
S6-FL-2424	30320-2424	20307984	1 ½	1 ½	2.37	60.3	2.50	63.5	5.77	146.5	NS
SE-FL-2424	46320-2424	21041070	1 ½	1 ½	2.37	60.3	2.63	66.9	6.37	161.9	NS
SE-FL-2432	46320-2432	21041120	1 ½	2	2.81	71.4	2.82	71.4	6.56	166.6	NS
S6-FL-3224	30320-3224	20788102	2	1 ½	2.37	60.3	2.99	76.0	6.92	175.8	NS
SE-FL-3224	46320-3224	21041106	2	1 ½	2.37	60.3	2.98	75.7	7.48	190.0	NS
S6-FL-3232	30320-3232	20307985	2	2	2.81	71.4	2.76	70.1	6.69	169.9	NS
SE-FL-3232	46320-3232	21041069	2	2	2.81	71.4	2.76	70.1	7.26	184.4	NS
S6-FL-3240	30320-3240	20788103	2	2 ½	3.31	84.1	2.61	66.3	6.54	166.1	NS
SE-FL-3240	46320-3240	21041101	2	2 ½	3.31	84.1	2.61	66.3	7.11	180.6	NS

\*NS=Non-Skive

### Dual-Grip Style

Part Number	Product Number	SAP Number	Hose ID	Flange Size	Flange Diameter (A)		Cut-Off (C)		Length (L)		Skive Type*
					in.	mm	in.	mm	in.	mm	
DG-FL-2424	16320-2424	20242554	1 ½	1 ½	2.37	60.3	1.77	45.0	5.81	147.5	DG
DG-FL-2432	16320-2432	20242298	1 ½	2	2.81	71.4	2.22	56.5	6.26	159.0	DG
DG-FL-3232	16320-3232	20242526	2	2	2.81	71.4	2.17	55.0	6.54	166.0	DG

\*DG=Dual-Grip



## Code 61 Flange (SAE J518)

22.5° Elbow

Part Number	Product Number	SAP Number											Skive Type*
			Hose ID	Flange Size	Flange Diameter (A)		Drop (D)		Cut-Off (C)		Length (L)		
			in.		in.	mm	in.	mm	in.	mm	in.	mm	
S6-FL22-3232	30330-3232	20788100	2	2	2.81	71.4	0.866	22.0	5.709	145.0	9.637	244.8	NS
SE-FL22-3232	46346-3232	21041105	2	2	2.81	71.4	0.866	22.0	5.709	145.0	10.21	259.3	NS

\*NS=Non-Skive

## FITTINGS



### Section 3

S6, SE, DG Fittings

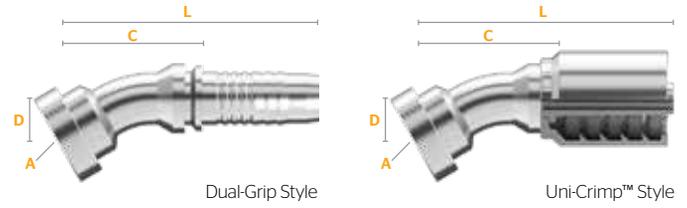
#### COMPATIBLE HOSE:

SR13                      SR15                      XCP5S  
 ARC13                    ARC15                    XCP6S

For a detailed list, please refer to your Crimp Specifications Manual.

# Code 61 Flange (SAE J518)

30° Elbow



## Uni-Crimp™ Style

Part Number	Product Number	SAP Number											
			Hose ID	Flange Size	Flange Diameter (A)		Drop (D)		Cut-Off (C)		Length (L)		Skive Type*
			in.		in.	mm	in.	mm	in.	mm	in.	mm	
S6-FL30-3232	30335-3232	20788101	2	2	2.81	71.4	1.26	32.0	5.709	145.0	9.637	244.8	NS
SE-FL30-3232	46335-3232	21041097	2	2	2.81	71.4	1.26	32.0	5.709	145.0	10.209	259.3	NS

\*NS=Non-Skive

## Dual-Grip Style

Part Number	Product Number	SAP Number	Hose ID	Flange Size	Flange Diameter (A)		Drop (D)		Cut-Off (C)		Length (L)		Skive Type*
					in.	mm	in.	mm	in.	mm	in.	mm	
DG-FL30-3232	16335-3232	20297539	2	2	2.81	71.4	1.28	32.5	5.87	149.0	9.69	246.0	DG

\*DG=Dual-Grip

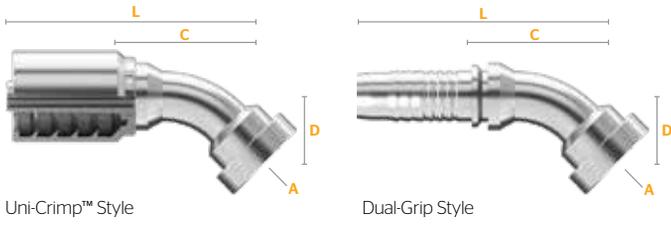


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**Section 3**  
S6, SE, DG Fittings

**FITTINGS**





## Code 61 Flange (SAE J518)

### 45° Elbow

#### Uni-Crimp™ Style

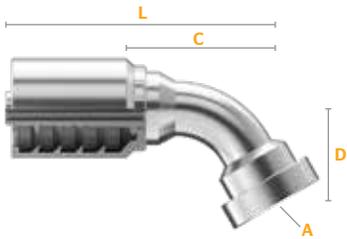
Part Number	Product Number	SAP Number											Skive Type*
			Hose ID	Flange Size	Flange Diameter (A)	Drop (D)	Cut-Off (C)	Length (L)					
			in.		in.	mm	in.	mm	in.	mm	in.	mm	
S6-FL45-2424	30340-2424	20307988	1 ½	1 ½	2.37	60.3	1.69	43.0	4.37	111.0	7.64	194.0	NS
SE-FL45-2424	46340-2424	21041077	1 ½	1 ½	2.37	60.3	1.69	43.0	4.51	114.0	8.25	209.6	NS
S6-FL45-3232	30340-3232	20788104	2	2	2.81	71.4	2.21	56.0	6.10	155.0	10.03	254.8	NS
SE-FL45-3232	46340-3232	21041080	2	2	2.81	71.4	2.21	56.0	6.10	155.0	10.60	269.2	NS

\*NS=Non-Skive

#### Dual-Grip Style

Part Number	Product Number	SAP Number	Hose ID	Flange Size	Flange Diameter (A)		Drop (D)		Cut-Off (C)		Length (L)		Skive Type*
			in.		in.	mm	in.	mm	in.	mm	in.	mm	
DG-FL45-2424	16340-2424	20242449	1 ½	1 ½	2.37	60.3	1.69	43.0	4.09	104.0	7.68	195.0	DG
DG-FL45-3232	16340-3232	20242294	2	2	2.81	71.4	2.13	54.0	5.43	138.0	9.25	235.0	DG

\*DG=Dual-Grip



## Code 61 Flange (SAE J518)

### 60° Elbow

Part Number	Product Number	SAP Number											Skive Type*
			Hose ID	Flange Size	Flange Diameter (A)	Drop (D)	Cut-Off (C)	Length (L)					
			in.		in.	mm	in.	mm	in.	mm	in.	mm	
S6-FL60-3232	30345-3232	20788105	2	2	2.81	71.4	3.268	83.0	5.709	145.0	9.637	244.8	NS
SE-FL60-3232	46345-3232	21041094	2	2	2.81	71.4	3.268	83.0	6.30	160.0	10.8	274.3	NS

\*NS=Non-Skive

## FITTINGS



### Section 3

S6, SE, DG Fittings

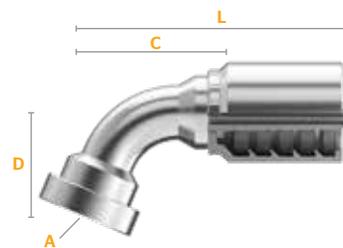
#### COMPATIBLE HOSE:

SR13	SR15	XCP5S
ARC13	ARC15	XCP6S

For a detailed list, please refer to your Crimp Specifications Manual.

## Code 61 Flange (SAE J518)

67° Elbow

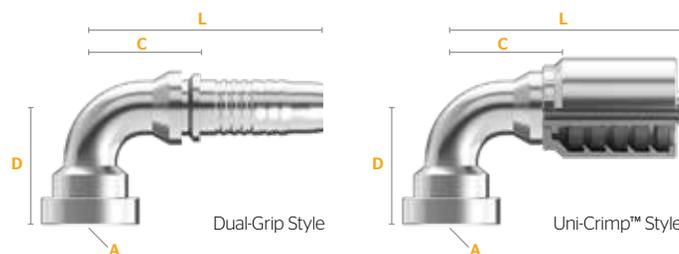


Part Number	Product Number	SAP Number											Skive Type*
			Hose ID	Flange Size	Flange Diameter (A)		Drop (D)		Cut-Off (C)		Length (L)		
			in.		in.	mm	in.	mm	in.	mm	in.	mm	
S6-FL67-3232	30347-3232	20293322	2	2	2.81	71.4	3.819	97.0	6.30	160.0	10.23	259.8	NS

\*NS=Non-Skive

## Code 61 Flange (SAE J518)

90° Elbow



Uni-Crimp™ Style

Part Number	Product Number	SAP Number											Skive Type*
			Hose ID	Flange Size	Flange Diameter (A)		Drop (D)		Cut-Off (C)		Length (L)		
			in.		in.	mm	in.	mm	in.	mm	in.	mm	
S6-FL90-2424	30350-2424	20308022	1 ½	1 ½	2.37	60.3	3.66	93.0	4.06	103.0	7.32	186.0	NS
SE-FL90-2424	46350-2424	21041075	1 ½	1 ½	2.37	60.3	3.66	93.0	4.06	103.0	7.32	186.0	NS
S6-FL90-3232	30350-3232	20308023	2	2	2.81	71.4	5.433	138.0	5.71	145.0	9.639	168.6	NS
SE-FL90-3232	46350-3232	21041083	2	2	2.81	71.4	5.433	138.0	5.71	145.0	10.21	259.3	NS

\*NS=Non-Skive

Dual-Grip Style

Part Number	Product Number	SAP Number	Hose ID	Flange Size	Flange Diameter (A)		Drop (D)		Cut-Off (C)		Length (L)		Skive Type*
					in.	mm	in.	mm	in.	mm	in.	mm	
DG-FL90-2424	16350-2424	20242524	1 ½	1 ½	2.37	60.3	3.66	93.0	3.78	96.0	7.36	187.0	DG
DG-FL90-3232	16350-3232	20242525	2	2	2.81	71.4	5.12	130.0	5.28	134.0	9.09	231.0	DG

\*DG=Dual-Grip

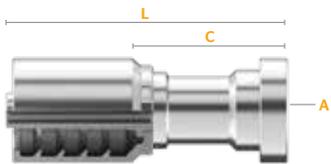


Download the **MyCrimp App** for more information.

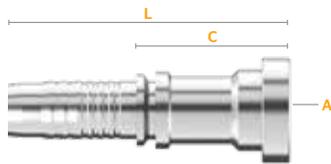
**Section 3**  
S6, SE, DG Fittings

**FITTINGS**





Uni-Crimp™ Style



Dual-Grip Style

## Code 62 Flange (SAE J518)

### Uni-Crimp™ Style

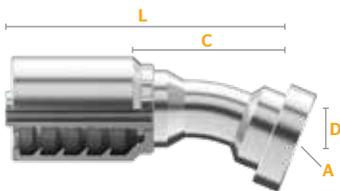
Part Number	Product Number	SAP Number									Skive Type*
			Hose ID	Flange Size	Flange Diameter (A)		Cut-Off (C)		Length (L)		
			in.		in.	mm	in.	mm	in.	mm	
S6-FH-2424	30300-2424	20241758	1 ½	1 ½	2.50	63.5	2.99	76.0	6.26	159.0	NS
SE-FH-2424	46300-2424	21041065	1 ½	1 ½	2.50	63.5	2.99	76.0	6.73	171.0	NS
S6-FH-2432	30300-2432	20241756	1 ½	2	3.13	79.4	3.46	88.0	6.73	171.0	NS
SE-FH-2432	46300-2432	21041102	1 ½	2	3.13	79.4	3.33	84.5	7.07	179.5	NS
S6-FH-3224	30300-3224	20788098	2	1 ½	2.50	63.5	2.99	76.0	6.92	175.8	NS
SE-FH-3224	46300-3224	21041103	2	1 ½	2.50	63.5	2.98	76.0	7.48	190.0	NS
S6-FH-3232	30300-3232	20241748	2	2	3.13	79.4	2.87	73.0	7.24	184.0	NS
SE-FH-3232	46300-3232	21041072	2	2	3.13	79.4	5.05	128.1	9.55	242.4	NS

\*NS=Non-Skive

### Dual-Grip Style

Part Number	Product Number	SAP Number	Hose ID	Flange Size	Flange Diameter (A)		Cut-Off (C)		Length (L)		Skive Type*
					in.	mm	in.	mm	in.	mm	
DG-FH-2424	16300-2424	20242308	1 ½	1 ½	2.50	63.5	2.26	57.5	6.30	160.0	DG
DG-FH-2432	16300-2432	20242796	1 ½	2	3.13	79.4	2.74	69.5	6.77	172.0	DG
DG-FH-3232	16300-3232	20254307	2	2	3.13	79.4	2.87	73.0	7.24	184.0	DG

\*DG=Dual-Grip



## Code 62 Flange (SAE J518)

22.5° Elbow

Part Number	Product Number	SAP Number											Skive Type*
			Hose ID	Flange Size	Flange Diameter (A)		Drop (D)		Cut-Off (C)		Length (L)		
			in.		in.	mm	in.	mm	in.	mm	in.	mm	
S6-FH22-3232	30303-3232	20788097	2	2	3.13	79.4	0.98	25.0	5.71	145.0	9.39	238.4	NS
SE-FH22-3232	46303-3232	21041110	2	2	3.13	79.4	0.984	25.0	5.709	145.0	10.209	259.3	NS

\*NS=Non-Skive

## FITTINGS



### Section 3

S6, SE, DG Fittings

#### COMPATIBLE HOSE:

SR13

SR15

XCP5S

ARC13

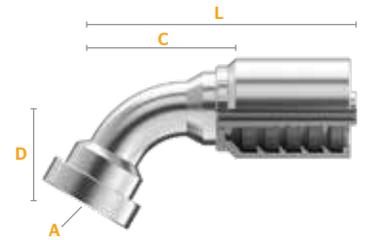
ARC15

XCP6S

For a detailed list, please refer to your Crimp Specifications Manual.

## Code 62 Flange (SAE J518)

30° Elbow

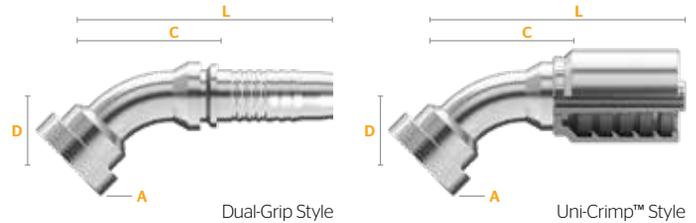


Part Number	Product Number	SAP Number											
			Hose ID	Flange Size	Flange Diameter (A)	Drop (D)	Cut-Off (C)	Length (L)	Skive Type*				
			in.		in.	mm	in.	mm	in.	mm	in.	mm	
S6-FH30-2424	30305-2424	20293334	1 ½	1 ½	2.50	63.5	1.16	29.5	6.06	154.0	9.33	237.0	NS
SE-FH30-2424	46305-2424	21041118	1 ½	1 ½	2.50	63.5	1.16	29.5	6.20	157.4	9.94	252.3	NS
S6-FH30-3232	30305-3232	20293335	2	2	3.13	79.4	1.32	33.5	5.71	145.0	9.36	237.6	NS
SE-FH30-3232	30305-3232	20293335	2	2	3.13	79.4	1.32	33.5	5.71	145.0	10.21	259.3	NS

\*NS=Non-Skive

## Code 62 Flange (SAE J518)

45° Elbow



Uni-Crimp™ Style

Part Number	Product Number	SAP Number											
			Hose ID	Flange Size	Flange Diameter (A)	Drop (D)	Cut-Off (C)	Length (L)	Skive Type*				
			in.		in.	mm	in.	mm	in.	mm	in.	mm	
S6-FH45-2424	30310-2424	20241768	1 ½	1 ½	2.50	63.5	1.89	48.0	5.67	144.0	8.94	227.0	NS
SE-FH45-2424	46310-2424	21041074	1 ½	1 ½	2.50	63.5	2.05	52.1	7.27	184.5	11.01	279.5	NS
S6-FH45-2432	30310-2432	20241766	1 ½	2	3.13	79.4	2.17	55.0	5.39	137.0	8.66	220.0	NS
SE-FH45-2432	46310-2432	21041109	1 ½	2	3.13	79.4	2.17	55.0	5.54	160.6	9.28	235.6	NS
S6-FH45-3232	30310-3232	20241779	2	2	3.13	79.4	2.21	56.0	6.10	155.0	10.03	254.8	NS
SE-FH45-3232	46310-3232	21041081	2	2	3.13	79.4	2.21	56.0	6.10	155.0	10.60	269.3	NS

\*NS=Non-Skive

Dual-Grip Style

Part Number	Product Number	SAP Number	Hose ID	Flange Size	Flange Diameter (A)		Drop (D)		Cut-Off (C)		Length (L)		Skive Type*
					in.	mm	in.	mm	in.	mm	in.	mm	
DG-FH45-2424	16310-2424	20242302	1 ½	1 ½	2.50	63.5	1.89	48.0	5.35	136.0	8.98	228.0	DG
DG-FH45-2432	16310-2432	20242795	1 ½	2	3.13	79.4	2.17	55.0	5.08	129.0	8.70	221.0	DG
DG-FH45-3232	16310-3232	20254310	2	2	3.13	79.4	2.48	63.0	6.34	161.0	10.16	258.0	DG

\*DG=Dual-Grip

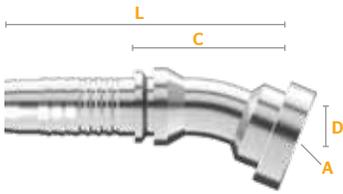


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**Section 3**  
S6, SE, DG Fittings

**FITTINGS**



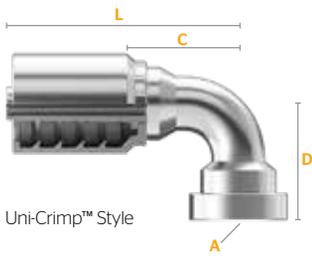


## Code 62 Flange (SAE J518)

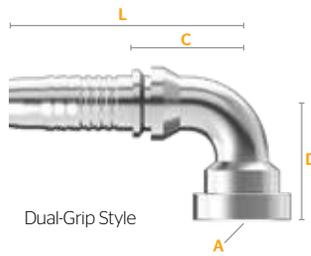
60° Elbow

Part Number	Product Number	SAP Number											Skive Type*
			Hose ID	Flange Size	Flange Diameter (A)		Drop (D)		Cut-Off (C)		Length (L)		
			in.		in.	mm	in.	mm	in.	mm	in.	mm	
S6-FH60-3232	30312-3232	20788099	2	2	3.13	79.4	3.27	83.0	5.71	145.0	9.64	244.8	NS
SE-FH60-3232	46312-3232	21041104	2	2	3.13	79.4	3.27	83.0	6.30	160.0	10.80	274.3	NS

\*NS=Non-Skive



Uni-Crimp™ Style



Dual-Grip Style

## Code 62 Flange (SAE J518)

90° Elbow

### Uni-Crimp™ Style

Part Number	Product Number	SAP Number											Skive Type*
			Hose ID	Flange Size	Flange Diameter (A)		Drop (D)		Cut-Off (C)		Length (L)		
			in.		in.	mm	in.	mm	in.	mm	in.	mm	
S6-FH90-2420	30315-2420	20241782	1 ½	1 ¼	2.13	54.0	3.35	85.0	4.41	112.0	7.68	195.0	NS
SE-FH90-2420	46315-2420	21041084	1 ½	1 ¼	2.13	54.0	3.35	85.0	4.55	115.4	8.29	210.4	NS
S6-FH90-2424	30315-2424	20241783	1 ½	1 ½	2.50	63.5	4.29	109.0	4.49	114.0	7.76	197.0	NS
SE-FH90-2424	46315-2424	21041067	1 ½	1 ½	2.50	63.5	4.29	109.0	4.62	117.2	8.36	212.2	NS
S6-FH90-2432	30315-2432	20293343	1 ½	2	3.13	79.4	4.78	121.5	4.65	118.0	7.91	201.0	NS
SE-FH90-2432	46315-2432	21041119	1 ½	2	3.13	79.4	4.78	121.5	4.79	121.5	8.53	216.5	NS
S6-FH90-3232	30315-3232	20241735	2	2	3.13	79.4	3.27	83.0	5.71	145.0	9.64	244.8	NS
SE-FH90-3232	46315-3232	21041078	2	2	3.13	79.4	5.43	138.0	5.71	145.0	10.21	259.3	NS

\*NS=Non-Skive

### Dual-Grip Style

Part Number	Product Number	SAP Number	Hose ID	Flange Size	Flange Diameter (A)		Drop (D)		Cut-Off (C)		Length (L)		Skive Type*
					in.	mm	in.	mm	in.	mm	in.	mm	
DG-FH90-2424	16315-2424	20242304	1 ½	1 ½	2.50	63.5	4.29	109.0	4.17	106.0	7.80	198.0	DG
DG-FH90-3232	16315-3232	20254314	2	2	3.13	79.4	5.45	138.5	5.87	149.0	9.69	246.0	DG

\*DG=Dual-Grip

## FITTINGS



### Section 3

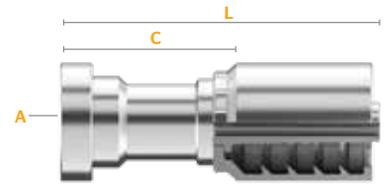
S6, SE, DG Fittings

#### COMPATIBLE HOSE:

SR13                      SR15                      XCP5S  
 ARC13                    ARC15                    XCP6S

For a detailed list, please refer to your Crimp Specifications Manual.

## Caterpillar® Flange

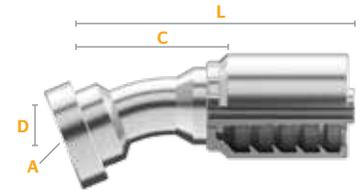


Part Number	Product Number	SAP Number									Skive Type*
			Hose ID	Flange Size	Flange Diameter (A)		Cut-Off (C)		Length (L)		
			in.		in.	mm	in.	mm	in.	mm	
S6-CF-2424	30185-2424	20293347	1 ½	1 ½	2.50	63.5	3.50	89.0	6.77	172.0	NS
SE-CF-2424	46185-2424	21041068	1 ½	1 ½	2.50	63.5	3.64	92.5	7.38	187.5	NS
S6-CF-3232	30185-3232	20293348	2	2	3.13	79.4	4.34	110.1	8.26	209.9	NS
SE-CF-3232	46185-3232	21041086	2	2	3.13	79.4	4.34	110.1	8.84	224.4	NS

\*NS=Non-Skive

## Caterpillar® Flange

22.5° Elbow



Part Number	Product Number	SAP Number										Skive Type*	
			Hose ID	Flange Size	Flange Diameter (A)		Drop (D)	Cut-Off (C)		Length (L)			
			in.		in.	mm	in.	mm	in.	mm	in.	mm	
S6-CF22-3232	30187-3232	20788095	2	2	3.13	79.4	0.98	25.0	4.34	110.1	8.26	209.9	NS
SE-CF22-3232	46187-3232	21041114	2	2	3.13	79.4	0.98	25.0	6.54	166.2	11.04	280.5	NS

\*NS=Non-Skive

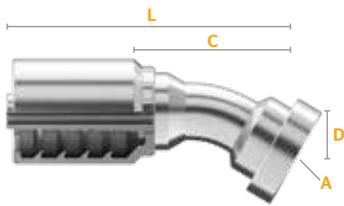


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**Section 3**  
S6, SE, DG Fittings

**FITTINGS**



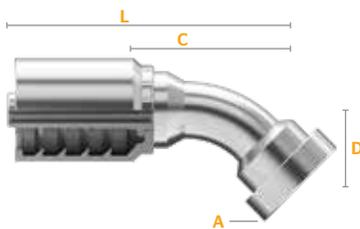


## Caterpillar® Flange

30° Elbow

Part Number	Product Number	SAP Number	Hose ID		Flange Size		Flange Diameter (A)		Drop (D)		Cut-Off (C)		Length (L)		Skive Type*
			in.	mm	in.	mm	in.	mm	in.	mm	in.	mm			
S6-CF30-3232	30188-3232	20788096	2	2	3.13	79.4	1.38	35.0	6.54	166.2	10.47	266.0	NS		
SE-CF30-3232	46188-3232	21041116	2	2	3.13	79.4	1.32	33.5	6.54	166.2	11.04	280.5	NS		

\*NS=Non-Skive



## Caterpillar® Flange

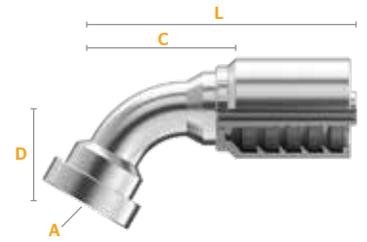
45° Elbow

Part Number	Product Number	SAP Number	Hose ID		Flange Size		Flange Diameter (A)		Drop (D)		Cut-Off (C)		Length (L)		Skive Type*
			in.	mm	in.	mm	in.	mm	in.	mm	in.	mm			
S6-CF45-2424	30190-2424	20424964	1 ½	1 ½	2.50	63.5	2.05	52.0	7.13	181.0	10.39	264.0	NS		
SE-CF45-2424	46190-2424	21041079	1 ½	1 ½	2.50	63.5	2.05	52.0	7.27	184.5	11.01	279.7	NS		
S6-CF45-3232	30190-3232	20441298	2	2	3.13	79.4	2.76	70.0	6.54	166.2	10.47	266.0	NS		
SE-CF45-3232	46190-3232	21041092	2	2	3.13	79.4	2.76	70.0	6.54	166.2	11.04	280.5	NS		

\*NS=Non-Skive

## Caterpillar® Flange

60° Elbow

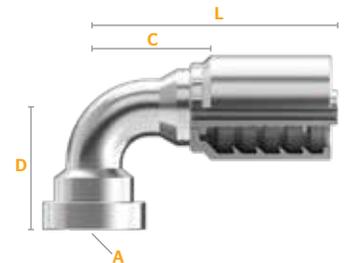


Part Number	Product Number	SAP Number											Skive Type*
			Hose ID	Flange Size	in.	mm	in.	mm	in.	mm	in.	mm	
S6-CF60-2424	30192-2424	20441299	1 ½	1 ½	2.50	63.5	2.85	72.5	6.46	164.0	9.76	248.0	NS
SE-CF60-2424	46192-2424	21041100	1 ½	1 ½	2.50	63.5	2.52	64.0	7.01	178.1	10.75	273.1	NS
S6-CF60-2432	30192-2432	20441335	1 ½	2	3.13	79.4	3.35	85.0	5.71	145.0	8.98	228.0	NS
S6-CF60-3232	30192-3232	20441300	2	2	3.13	79.4	3.27	83.0	6.54	166.2	10.47	266.0	NS
SE-CF60-3232	46192-3232	21041097	2	2	3.13	79.4	3.27	83.0	6.54	166.2	11.04	280.5	NS

\*NS=Non-Skive

## Caterpillar® Flange

90° Elbow



Part Number	Product Number	SAP Number											Skive Type*
			Hose ID	Flange Size	in.	mm	in.	mm	in.	mm	in.	mm	
S6-CF90-2424	30195-2424	20424954	1 ½	1 ½	2.50	63.5	4.29	109.0	4.61	117.0	7.87	200.0	NS
SE-CF90-2424	46195-2424	21041073	1 ½	1 ½	2.50	63.5	4.29	109.0	4.75	120.6	8.49	215.5	NS
S6-CF90-3232	30195-3232	20441302	2	2	3.13	79.4	5.43	138.0	5.71	145.0	9.637	244.8	NS
SE-CF90-3232	46195-3232	21041099	2	2	3.13	79.4	5.43	138.0	5.71	145.0	10.21	259.3	NS

\*NS=Non-Skive

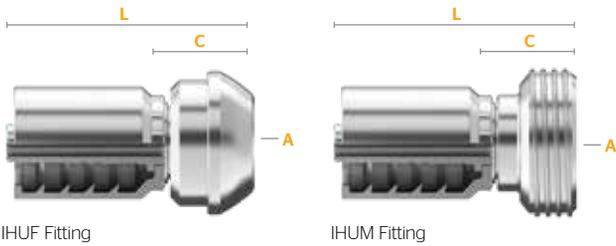


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**Section 3**  
S6, SE, DG Fittings

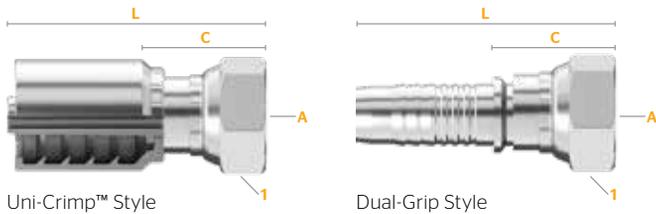
**FITTINGS**





## Hammer Union

Part Number	Product Number	SAP Number	Hose ID		Thread Size (A)		Cut-Off (C)		Length (L)		Skive Type*
			in.	mm	in.	mm	in.	mm			
S6-IHUF1502-2432	30390-2432	20864300	1 1/2	38.1	2-11 1/2 3 TPI ACME 2G	2.85	72.4	6.11	155.2	NS	
SE-IHUF1502-2432	46390-2432	21041095	1 1/2	38.1	2-11 1/2 3 TPI ACME 2G	3.33	84.5	7.07	179.5	NS	
S6-IHUM1502-2432	30395-2432	20864272	1 1/2	38.1	2-11 1/2 3 TPI ACME 2G	2.59	65.8	5.85	148.6	NS	
SE-IHUM1502-2432	46395-2432	21041108	1 1/2	38.1	2-11 1/2 3 TPI ACME 2G	3.33	84.5	7.07	179.5	NS	
S6-IHUF1502-3232	30390-3232	20806362	2	50.8	2-11 1/2 3 TPI ACME 2G	2.59	65.8	6.52	165.6	NS	
SE-IHUF1502-3232	46390-3232	21041062	2	50.8	2-11 1/2 3 TPI ACME 2G	2.09	53.1	7.09	180.1	NS	
S6-IHUM1502-3232	30395-3232	20806363	2	50.8	2-11 1/2 3 TPI ACME 2G	2.62	66.5	6.55	166.4	NS	
SE-IHUM1502-3232	46395-3232	21041061	2	50.8	2-11 1/2 3 TPI ACME 2G	2.62	66.5	7.12	180.8	NS	



## BSPF (British Standard Pipe Parallel)

Female / Swivel

### Uni-Crimp™ Style

Part Number	Product Number	SAP Number	Hose ID		Thread Size (A)		Hex 1 Wrench Size		Cut-Off (C)		Length (L)		Skive Type*
			in.	mm	in.	mm	in.	mm	in.	mm			
S6-BPFX-3232 <sup>T</sup>	30105-3232	20788090	2	50.8	2-11	70	2.38	60.4	6.305	160.1	NS		

T=Thrust-Wire Nut (See Fitting Identification in Appendix for more information.) \*NS=Non-Skive

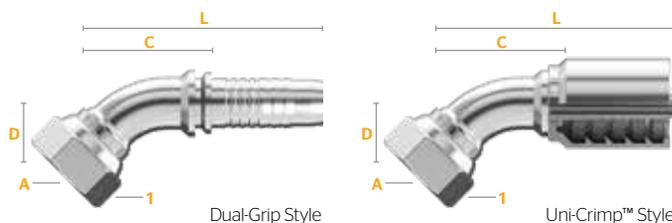
### Dual-Grip Style

Part Number	Product Number	SAP Number	Hose ID		Thread Size (A)		Hex 1 Wrench Size		Cut-Off (C)		Length (L)		Skive Type*
			in.	mm	in.	mm	in.	mm	in.	mm			
DG-BPFX-3232 <sup>T</sup>	16105-3232	20242791	2	50.8	2-11	70	1.30	33.0	5.75	146.1	DG		

T=Thrust-Wire Nut (See Fitting Identification in Appendix for more information.) \*DG=Dual-Grip

# BSPB (British Standard Pipe Parallel)

Female / 45° Elbow / Swivel



## Uni-Crimp™ Style

Part Number	Product Number	SAP Number	Hose ID		Thread Size (A)		Hex 1 Wrench Size		Drop (D)		Cut-Off (C)		Length (L)		Skive Type*
			in.	mm	in.	mm	in.	mm	in.	mm	in.	mm			
S6-BPFX45-3232 <sup>T</sup>	30115-3232	20788091	2		2-11	70	2.76	70.0	6.54	166.2	10.47	266.0	NS		
SE-BPFX45-3232 <sup>T</sup>	46115-3232	21041112	2		2-11	70	2.76	70.0	6.54	166.2	11.04	280.5	NS		

T=Thrust-Wire Nut (See Fitting Identification in Appendix for more information) \*NS=Non-Skive

## Dual-Grip Style

Part Number	Product Number	SAP Number	Hose ID		Thread Size (A)		Hex 1 Wrench Size		Drop (D)		Cut-Off (C)		Length (L)		Skive Type*
			in.	mm	in.	mm	in.	mm	in.	mm	in.	mm			
DG-BPFX45-2424 <sup>T</sup>	16115-2424	20242286	1 ½		1 ½-11	55	1.81	46.0	4.45	113.0	8.29	210.6	DG		
DG-BPFX45-3232 <sup>T</sup>	16115-3232	20242788	2		2-11	70	2.36	60.0	5.94	151.0	10.08	256.0	DG		

T=Thrust-Wire Nut (See Fitting Identification in Appendix for more information) \*DG=Dual-Grip

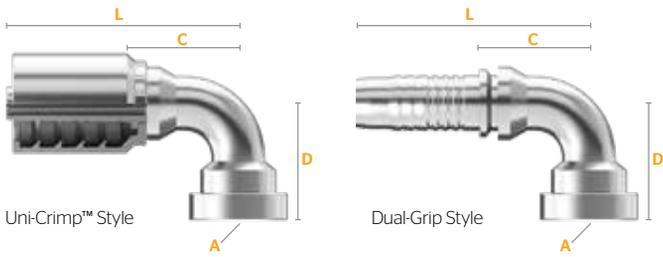


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**Section 3**  
S6, SE, DG Fittings

**FITTINGS**





## BSPP (British Standard Pipe Parallel)

Female / 90° Elbow / Swivel

### Uni-Crimp™ Style

Part Number	Product Number	SAP Number													Skive Type*
			Hose ID	Thread Size (A)	Hex 1 Wrench Size	Drop (D)	Cut-Off (C)	Length (L)							
			in.		mm	in.	mm	in.	mm	in.	mm				
S6-BPFX90-2424 <sup>T</sup>	30110-2424	20424917	1 ½	1 ½-11	55					Contact Continental				NS	
SE-BPFX90-2424 <sup>T</sup>	46110-2424	21041090	1 ½	1 ½-11	55	3.78	96.0	4.53	115.0	8.27	210.0			NS	
S6-BPFX90-3232 <sup>T</sup>	30120-3232	20788092	2	2-11	70	5.51	140.0	5.71	145.0	9.627	244.5			NS	
SE-BPFX90-3232 <sup>T</sup>	46110-3232	20788092	2	2-11	70	5.51	140.0	5.71	145.0	10.21	259.3			NS	

T=Thrust-Wire Nut (See Fitting Identification in Appendix for more information.) \*NS=Non-Skive

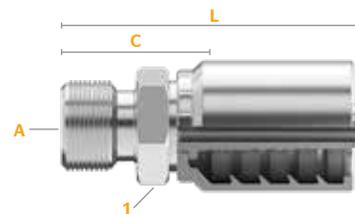
### Dual-Grip Style

Part Number	Product Number	SAP Number													Skive Type*
			Hose ID	Thread Size (A)	Hex 1 Wrench Size	Drop (D)	Cut-Off (C)	Length (L)							
			in.		mm	in.	mm	in.	mm	in.	mm				
DG-BPFX90-2424 <sup>T</sup>	16120-2424	20242789	1 ½	1 ½-11	55	3.78	96.0	3.66	93.0	7.28	185.0			DG	
DG-BPFX90-3232 <sup>T</sup>	16120-3232	20242790	2	2-11	70	4.92	125.0	5.47	139.0	9.29	236.0			DG	

T=Thrust-Wire Nut (See Fitting Identification in Appendix for more information.) \*DG=Dual-Grip

## BSPP (British Standard Pipe Parallel)

Male

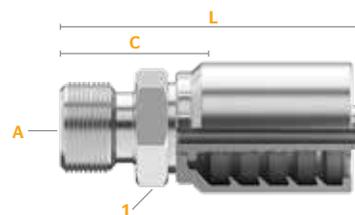


Part Number	Product Number	SAP Number							Skive Type*	
			Hose ID	Thread Size (A)	Hex 1 Wrench Size	Cut-Off (C)		Length (L)		
			in.		mm	in.	mm	in.	mm	
S6-BPM-2424	30130-2424	20424951	1½	1½-11	50	2.20	55.9	5.466	138.8	NS
S6-BPM-3232	30130-3232	20788093	2	2-11	70	2.66	67.5	6.587	167.3	NS
SE-BPM-3232	46146-3232	21041096	2	2-11	70	2.66	67.5	7.159	181.8	NS

\*NS=Non-Skive

## BSPT (British Standard Pipe Tapered)

Male



Part Number	Product Number	SAP Number							Skive Type*	
			Hose ID	Thread Size (A)	Hex 1 Wrench Size	Cut-Off (C)		Length (L)		
			in.		mm	in.	mm	in.	mm	
S6-BTM-3232	30170-3232	20788094	2	2-11	70	2.53	64.1	6.453	163.9	NS
SE-BTM-3232	46170-3232	21041115	2	2-11	70	2.53	64.1	7.025	178.4	NS

\*NS=Non-Skive



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**Section 3**  
S6, SE, DG Fittings

**FITTINGS**



# SECTION 4 - BT FITTINGS

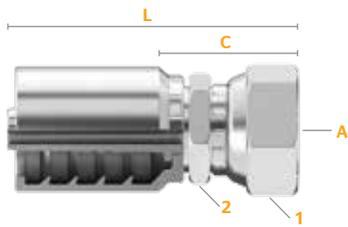
This section lists all fittings compatible with the following hose:

Hose	Description	Compatible Dash Size
HR4	SAE 100R4	All hose dash sizes

## How to Use the Fittings Table

The fittings in this section will follow a similar table structure to the one seen on this page.

Fitting dimensions and attributes are explained below.



## Fitting Name

Fitting Description

Part Number	Product Number	SAP Number										
			Hose ID	Thread Size (A)	Hex 1 Wrench Size	Hex 2 Wrench Size	Cut-Off (C)	Length (L)				
			in.		in.	mm	in.	mm	in.	mm		
BTJCFX-1212	37400-1212	21007489	3/4	1 1/16-12	1 1/4	32	1 1/16	27	1.74	44.2	3.29	83.6
BTJCFX-1616	37400-1616	21007491	1	1 1/16-12	1 1/2	38	1 1/4	32	1.96	49.8	3.74	94.9
BTJCFX-2020†	37400-2020	21007492	1 1/4	1 1/8-12	2	50	1 3/8	41	2.15	54.6	4.20	106.6

### Fitting Dimensions and Attributes

**Part Number** See Hydraulic Fittings Nomenclature on page 128 for a breakdown of part number attributes

**Hose ID** The compatible Hose ID

**Tube ID** The compatible Tube ID

**Thread Size** The thread size or sizes available for a particular fitting dash size (indicated by **A** in the fitting image)

**Hex Size** The wrench size for one or both nuts on the fitting (indicated by **1** or **2** in the fitting image)

**Drop** The length of the elbow (indicated by **D** in the fitting image)

**Cut-Off** The amount of hose to be cut for a correct assembly length (indicated by **C** in the fitting image)

**Length** The overall length of the fitting

**Skive Type** For applicable fittings, a skive type will be indicated as Skive, Non-Skive or Dual-Grip

Choose fittings carefully, considering the working pressure of both the hose and fitting. The maximum working pressure of the hose assembly is the lesser of the rated working pressure of the hose and the fitting. See page 333 for the Fittings Working Pressure Guide.

## BT Fittings Overview

A complete overview of all BT fittings found in this section.

### JIC 37° Flare (SAE J514)

Female  
Swivel



BT-JCFX

P. 242

### JIC 37° Flare (SAE J514)

Female  
45° Elbow  
Swivel



BT-JCFX45

P. 242

### JIC 37° Flare (SAE J514)

Female  
90° Elbow  
Swivel



BT-JCFX90

P. 243

### JIC 37° Flare (SAE J514)

Male



BT-JCM

P. 243

### NPTF

Male



BT-NPM

P. 244

### O-Ring Face Seal (SAE J1453 ORS/ORFS)

Female  
Swivel



BT-OFFX

P. 244

### Code 61 Flange (SAE J518)



BT-FL

P. 245

### Code 61 Flange (SAE J518)

90° Elbow



BT-FL90

P. 245

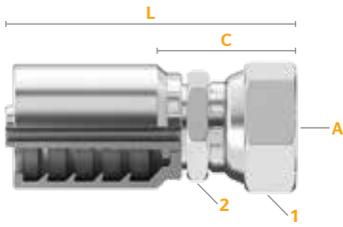


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**Section 4**  
BT Fittings

**FITTINGS**



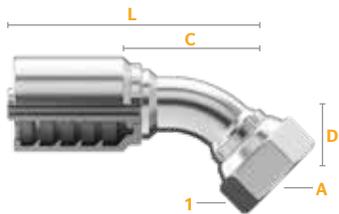


## JIC 37° Flare (SAE J514)

Female / Swivel

Part Number	Product Number	SAP Number										
			Hose ID	Thread Size (A)	Hex 1 Wrench Size	Hex 2 Wrench Size	Cut-Off (C)		Length (L)			
			in.		in.	mm	in.	mm	in.	mm	in.	mm
BT-JCFX-1210	37400-1210	21007488	3/4	7/8-14	1 1/4	32	1 1/6	27	1.63	41.4	3.18	80.8
BT-JCFX-1212	37400-1212	21007489	3/4	1 1/6 -12	1 1/4	32	1 1/6	27	1.74	44.2	3.29	83.6
BT-JCFX-1216	37400-1216	21007490	3/4	1 3/8 -12	1 1/2	38	1 1/4	32	1.89	48.1	3.45	87.5
BT-JCFX-1616	37400-1616	21007491	1	1 3/8 -12	1 1/2	38	1 1/4	32	1.96	49.8	3.74	94.9
BT-JCFX-2020 <sup>T</sup>	37400-2020	21007492	1 1/4	1 3/8 -12	2	50	1 3/8	41	2.15	54.6	4.20	106.6
BT-JCFX-2424 <sup>T</sup>	37400-2424	21007493	1 1/2	1 3/8 -12	2 3/16	55	2	50	2.42	61.4	4.75	120.6
BT-JCFX-3232 <sup>T</sup>	37400-3232	21007494	2	2 1/2 -12	2 3/8	70	2 3/8	65	2.88	73.1	5.71	145.1

T=Thrust-Wire Nut (See Fitting Identification in Appendix for more information.)



## JIC 37° Flare (SAE J514)

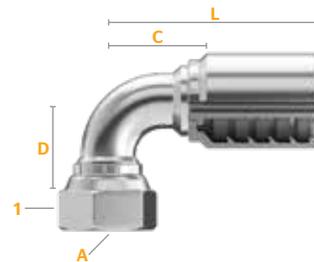
Female / 45° Elbow / Swivel

Part Number	Product Number	SAP Number										
			Hose ID	Thread Size (A)	Hex 1 Wrench Size	Drop (D)	Cut-Off (C)		Length (L)			
			in.		in.	mm	in.	mm	in.	mm	in.	mm
BT-JCFX45-1212	37420-1212	21007495	3/4	1 1/6 -12	1 1/4	32	0.83	21.0	2.64	67.0	4.19	106.5
BT-JCFX45-1616	37420-1616	21007496	1	1 3/8 -12	1 1/2	38	0.95	24.0	3.11	79.0	4.89	124.1
BT-JCFX45-2020 <sup>T</sup>	37420-2020	21007497	1 1/4	1 3/8 -12	2	50	1.46	37.1	3.82	97.0	5.87	149.0
BT-JCFX45-2424 <sup>T</sup>	37420-2424	21007498	1 1/2	1 3/8 -12	2 3/16	55	1.69	42.9	4.45	113.0	6.78	172.2

T=Thrust-Wire Nut (See Fitting Identification in Appendix for more information.)

## JIC 37° Flare (SAE J514)

Female / 90° Elbow / Swivel

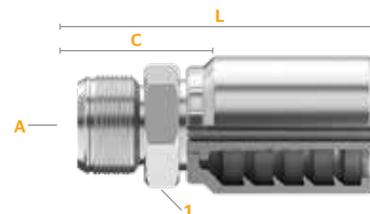


Part Number	Product Number	SAP Number	Hose ID		Thread Size (A)		Hex 1 Wrench Size		Elbow Type*	Drop (D)		Cut-Off (C)		Length (L)	
			in.	mm	in.	mm	in.	mm		in.	mm	in.	mm		
BT-JCFX90-1212	37425-1212	21007499	3/4	19.0	1 1/16-12	1 1/4	32			2.13	54.0	2.05	52.0	3.60	91.4
BT-JCFX90L-1212	37440-1212	21007501	3/4	19.0	1 1/16-12	1 1/4	32	LT		3.74	95.0	2.13	54.0	3.68	93.4
BT-JCFX90S-1212	37445-1212	21007500	3/4	19.0	1 1/16-12	1 1/4	32	ST		1.81	46.0	2.28	58.0	3.84	97.4
BT-JCFX90-1616	37425-1616	21007502	1	25.4	1 3/16-12	1 1/2	38			2.81	71.4	2.89	73.4	4.67	118.5
BT-JCFX90L-1616	37440-1616	21007504	1	25.4	1 3/16-12	1 1/2	38	LT		4.49	114.0	3.11	79.0	4.89	124.1
BT-JCFX90S-1616	37445-1616	21007503	1	25.4	1 3/16-12	1 1/2	38	ST		2.21	56.0	2.91	74.0	4.69	119.1
BT-JCFX90-2020 <sup>T</sup>	37425-2020	21007505	1 1/4	31.8	1 7/16-12	2	50			3.07	78.0	3.23	82.0	5.28	134.0
BT-JCFX90-2424 <sup>T</sup>	37425-2424	21007506	1 1/2	38.1	1 7/8-12	2 3/16	55			3.62	91.9	3.94	100.0	6.27	159.1
UC-JCFX90-3232 <sup>T</sup>	37425-3232	21007507	2	50.8	2 1/2-12	2 5/16	70			5.51	140.0	5.08	129.0	7.91	201.0

<sup>T</sup>=Thrust-Wire Nut (See Fitting Identification in Appendix for more information.) \*Elbow Type: LT=Long Tube ST=Short Tube

## JIC 37° Flare (SAE J514)

Male



Part Number	Product Number	SAP Number	Hose ID		Thread Size (A)		Hex 1 Wrench Size		Cut-Off (C)		Length (L)	
			in.	mm	in.	mm	in.	mm	in.	mm	in.	mm
BT-JCM-1212	37450-1212	21007508	3/4	19.0	1 1/16-12	1 1/4	27		1.48	37.7	3.04	77.1
BT-JCM-1616	37450-1616	21007509	1	25.4	1 3/16-12	1 3/8	36		1.67	42.4	3.45	87.5
BT-JCM-2020	37450-2020	21007510	1 1/4	31.8	1 7/16-12	1 9/16	46		1.91	48.6	3.96	100.5
BT-JCM-2424	37450-2424	21007511	1 1/2	38.1	1 7/8-12	2	50		2.08	52.7	4.40	111.8

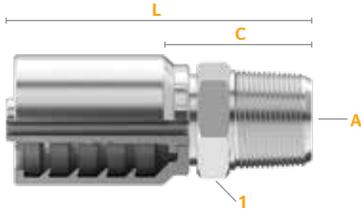


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**Section 4**  
BT Fittings

**FITTINGS**

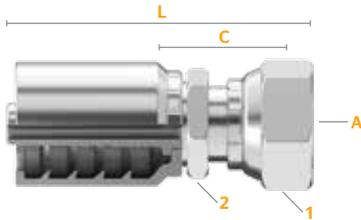




## NPTF

Male

Part Number	Product Number	SAP Number								
			Hose ID	Thread Size (A)	Hex 1 Wrench Size	Hex 2 Wrench Size	Cut-Off (C)	Length (L)	in.	mm
BT-NPM-1212	37615-1212	21007512	in.		in.	mm	in.	mm	in.	mm
BT-NPM-1616	37615-1616	21007513	3/4	3/4-14	1 1/16	27	1.36	34.6	2.92	74.1
BT-NPM-2020	37615-2020	21007514	1	1-11 1/2	1 1/16	36	1.73	43.9	3.51	89.0
BT-NPM-2424	37615-2424	21007515	1 1/4	1 1/4-11 1/2	1 3/16	46	1.95	49.5	4.00	101.5
BT-NPM-3232	37615-3232	21007516	1 1/2	1 1/2-11 1/2	2	50	2.01	51.0	4.34	110.1

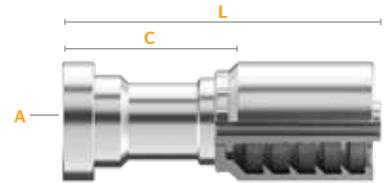


## O-Ring Face Seal (SAE J1453 ORS/ORFS)

Female / Swivel

Part Number	Product Number	SAP Number										
			Hose ID	Thread Size (A)	Hex 1 Wrench Size	Hex 2 Wrench Size	Cut-Off (C)	Length (L)	in.	mm	in.	mm
BT-OFFX-1212	37700-1212	21007517	in.		in.	mm	in.	mm	in.	mm	in.	mm
BT-OFFX-1616	37700-1616	21007518	3/4	1 3/16-12	1 1/16	36	1 3/16	30	1.67	42.3	3.22	81.8
BT-OFFX-2020	37700-2020	21007519	1	1 7/16-12	1 5/16	41	1 7/16	36	1.95	49.4	3.72	94.5
BT-OFFX-2424	37700-2424	21007520	1 1/4	1 1/16-12	2	50	1 5/8	41	2.08	52.9	4.13	104.9
BT-OFFX-3232	37700-3232	21007521	1 1/2	2-12	2 3/8	60	2	50	2.23	56.7	4.56	115.8

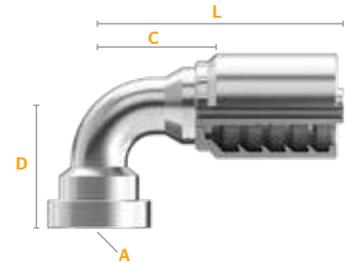
## Code 61 Flange (SAE J518)



Part Number	Product Number	SAP Number								
			Hose ID	Flange Size	Flange Diameter (A)		Cut-Off (C)		Length (L)	
			in.		in.	mm	in.	mm	in.	mm
BT-FL-1212	37320-1212	21007426	3/4	3/4	1.50	38.1	1.67	42.4	3.22	81.9
BT-FL-1616	37320-1616	21007427	1	1	1.75	44.5	2.02	51.3	3.80	96.4
BT-FL-2020	37320-2020	21007428	1 ¼	1 ¼	2.00	50.8	2.19	55.6	4.24	107.6
BT-FL-2424	37320-2424	21007429	1 ½	1 ½	2.37	60.3	2.31	58.7	4.64	117.8
BT-FL-3232	37320-3232	21007480	2	2	2.81	71.4	2.76	70.1	5.59	142.1
BT-FL-4040	37320-4040	21007481	2 ½	2 ½	3.31	84.1	2.24	56.9	5.49	139.4

## Code 61 Flange (SAE J518)

90° Elbow



Part Number	Product Number	SAP Number										
			Hose ID	Flange Size	Flange Diameter (A)		Drop (D)		Cut-Off (C)		Length (L)	
			in.		in.	mm	in.	mm	in.	mm	in.	mm
BT-FL90-1212	37350-1212	21007482	3/4	3/4	1.50	38.1	2.36	59.9	2.28	57.9	3.83	97.4
BT-FL90-1616	37350-1616	21007483	1	1	1.75	44.5	2.64	67.1	2.80	71.1	4.58	116.2
BT-FL90-2020	37350-2020	21007484	1 ¼	1 ¼	2.00	50.8	3.31	84.1	3.46	87.9	5.51	139.9
BT-FL90-2424	37350-2424	21007485	1 ½	1 ½	2.37	60.3	3.58	90.9	4.13	104.9	6.46	164.0
BT-FL90-3232	37350-3232	21007486	2	2	2.81	71.4	5.12	130.0	5.08	129.0	7.91	201.0
BT-FL90-4040	37350-4040	21007487	2 ½	2 ½	3.31	84.1	5.75	146.0	6.30	160.0	9.55	242.5



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**Section 4**  
BT Fittings

**FITTINGS**



# SECTION 5 - UC FITTINGS

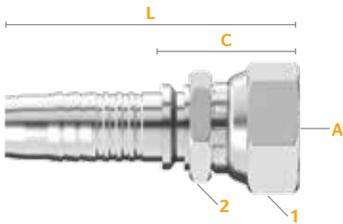
This section lists all fittings compatible with the following hose:

Hose	Description	Compatible Dash Size	Hose	Description	Compatible Dash Size
SR1SN	SAE 100R1AT / EN 853 1SN	Hose dash size -03	HR6	SAE 100R6 / EN 854 R6	Hose dash size -03
SR2SN	SAE 100R2AT / EN 856 2SN	Hose dash size -03	SR14A	SAE 100R14A	Hose dash size -03
SR3	SAE 100R3 / EN 854 R3	Hose dash size -03	SFS	Fire Suppression	Hose dash size -03
SR5	SAE 100R5	Hose dash size -03	SCP3	SAE 100R17	Hose dash sizes below -16
DR5	SAE 100R5	Hose dash size -03	ACP3	SAE 100R17	Hose dash sizes below -10
SR6	SAE J1942	Hose dash size -03	BOP	Blowout Prevention	Hose dash sizes below -16
HR4	SAE 100R4	All hose dash sizes			

## How to Use the Fittings Table

The fittings in this section will follow a similar table structure to the one seen on this page.

Fitting dimensions and attributes are explained below.



## Fitting Name

Fitting Description

Part Number	Product Number	SAP Number										
			Hose ID	Thread Size (A)	Hex 1 Wrench Size	Hex 2 Wrench Size	Cut-Off (C)	Length (L)	in.	mm		
UC-JCFX-0505	36400-0505	20242676	5/16	1/2-20	11/16	17	9/16	14	1.24	31.4	2.22	56.3
UC-JCFX-0606	36400-0606	20242787	3/8	9/16-18	3/4	19	11/16	17	1.22	31.1	2.27	57.7
UC-JCFX-0708	36400-0708	20979891	13/32	3/4-16	1	25	3/4	19	1.374	34.9	2.423	61.5

### Fitting Dimensions and Attributes

**Part Number** See Hydraulic Fittings Nomenclature on page 128 for a breakdown of part number attributes

**Hose ID** The compatible Hose ID

**Tube ID** The compatible Tube ID

**Thread Size** The thread size or sizes available for a particular fitting dash size (indicated by **A** in the fitting image)

**Hex Size** The wrench size for one or both nuts on the fitting (indicated by **1** or **2** in the fitting image)

**Drop** The length of the elbow (indicated by **D** in the fitting image)

**Cut-Off** The amount of hose to be cut for a correct assembly length (indicated by **C** in the fitting image)

**Length** The overall length of the fitting

**Skive Type** For applicable fittings, a skive type will be indicated as Skive, Non-Skive or Dual-Grip

Choose fittings carefully, considering the working pressure of both the hose and fitting. The maximum working pressure of the hose assembly is the lesser of the rated working pressure of the hose and the fitting. See page 333 for the Fittings Working Pressure Guide.

## FITTINGS



## Section 5 UC Fittings

### COMPATIBLE HOSE:

SR1SN	SR5	HR6	SFS	ACP3
SR2SN	DR5	HR4	SCP3	BOP
SR3	SR6	SR14A		

For a detailed list, please refer to your Crimp Specifications Manual.

# UC Fittings Overview

A complete overview of all UC fittings found in this section.

<p><b>JIC 37° Flare (SAE J514)</b> Female Swivel</p>  <p>UC-JCFX P. 249</p>	<p><b>JIC 37° Flare (SAE J514)</b> Female 45° Elbow Swivel</p>  <p>UC-JCFX45 P. 250</p>	<p><b>JIC 37° Flare (SAE J514)</b> Female 90° Elbow Swivel</p>  <p>UC-JCFX90 P. 251</p>	<p><b>JIC 37° Flare (SAE J514)</b> Male</p>  <p>UC-JCM P. 253</p>
<p><b>SAE 45° J512 Flare</b> Female Swivel</p>  <p>UC-SFFX P. 254</p>	<p><b>SAE 45° J512 Flare</b> Female 45° Elbow Swivel</p>  <p>UC-SFFX45 P. 254</p>	<p><b>SAE 45° J512 Flare</b> Female 90° Elbow Swivel</p>  <p>UC-SFFX90 P. 255</p>	<p><b>SAE 45° J512 Flare</b> Male</p>  <p>UC-SFM P. 255</p>
<p><b>SAE 45° Inverted Flare</b> Male Swivel</p>  <p>UC-SIMX P. 256</p>	<p><b>SAE 45° Inverted Flare</b> Female 45° Elbow Swivel</p>  <p>UC-SIMX45 P. 256</p>	<p><b>SAE 45° Inverted Flare</b> Male 90° Elbow Swivel</p>  <p>UC-SIMX90 P. 257</p>	<p><b>NPTF</b> Female</p>  <p>UC-NPF P. 257</p>
<p><b>NPTF</b> Male</p>  <p>UC-NPM P. 258</p>	<p><b>NPTF</b> Male Swivel</p>  <p>UC-NPMX P. 259</p>	<p><b>NPTF</b> Male 90° Block Elbow Swivel</p>  <p>UC-NPMX90B P. 260</p>	<p><b>NPSM</b> Female Swivel</p>  <p>UC-NSFX P. 260</p>
<p><b>SAE J514 Flareless Tube Fittings</b> Male</p>  <p>UC-FTM P. 261</p>	<p><b>Standpipe</b> 45° Elbow</p>  <p>UC-SP P. 261</p>	<p><b>Standpipe</b> 45° Elbow</p>  <p>UC-SP45 P. 262</p>	<p><b>O-Ring Face Seal (SAE J1453 ORS/ORFS)</b> Female Swivel</p>  <p>UC-OFFX P. 262</p>
<p><b>O-Ring Face Seal (SAE J1453 ORS/ORFS)</b> Female 45° Elbow Swivel</p>  <p>UC-OFFX45 P. 263</p>	<p><b>O-Ring Face Seal (SAE J1453 ORS/ORFS)</b> Female 90° Elbow Swivel</p>  <p>UC-OFFX90 P. 264</p>	<p><b>O-Ring Face Seal (SAE J1453 ORS/ORFS)</b> Male</p>  <p>UC-OFM P. 265</p>	<p><b>O-Ring Boss Straight Thread (SAE J514)</b> Male</p>  <p>UC-OBM P. 266</p>
<p><b>O-Ring Boss Straight Thread (SAE J514)</b> Male Swivel</p>  <p>UC-OBMX P. 266</p>	<p><b>O-Ring Boss Straight Thread (SAE J514)</b> Male 90° Block Elbow Swivel</p>  <p>UC-OBMX90B P. 267</p>	<p><b>Code 61 Flange (SAE J518)</b></p>  <p>UC-FL P. 267</p>	<p><b>Code 61 Flange (SAE J518)</b> 22.5° Elbow</p>  <p>UC-FL22 P. 268</p>



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**Section 5**  
UC Fittings

**FITTINGS**



# UC Fittings Overview

A complete overview of all UC fittings found in this section.

## Code 61 Flange (SAE J518)

30° Elbow



UC-FL30 P. 268

## Code 61 Flange (SAE J518)

45° Elbow



UC-FL45 P. 269

## Code 61 Flange (SAE J518)

60° Elbow



UC-FL60 P. 269

## Code 61 Flange (SAE J518)

90° Elbow



UC-FL90 P. 270

## Code 62 Flange (SAE J518)



UC-FH P. 271

## Code 62 Flange (SAE J518)

45° Elbow



UC-FH45 P. 271

## Code 62 Flange (SAE J518)

90° Elbow



UC-FH90 P. 272

## BSPP (British Standard Pipe Parallel)

Female Swivel



UC-BPFX P. 272

## BSPP (British Standard Pipe Parallel)

Female 45° Elbow Swivel



UC-BPFX45 P. 273

## BSPP (British Standard Pipe Parallel)

Female 90° Elbow Swivel



UC-BPFX90 P. 273

## BSPP (British Standard Pipe Parallel)

Male



UC-BPM P. 274

## BSPT (British Standard Pipe Tapered)

Male



UC-BTM P. 274

## BSP Flat Seat (British Standard Pipe)

Female Swivel



UC-BFFX P. 275

## DIN 24° Light

Female Swivel



UC-DLFX P. 275

## DIN 24° Light

Female 45° Elbow Swivel



UC-DLFX45 P. 276

## DIN 24° Light

Female 90° Elbow Swivel



UC-DLFX90 P. 276

## DIN 24° Light

Male



UC-DLM P. 277

## DIN 24° Heavy

Female Swivel



UC-DHFX P. 277

## DIN 24° Heavy

Female 45° Elbow Swivel



UC-DHFX45 P. 278

## DIN 24° Heavy

Female 90° Elbow Swivel



UC-DHFX90 P. 278

## DIN 24° Heavy

Male



UC-DHM P. 279

## DIN 60°

Female 45° Elbow Swivel



UC-DNFX45 P. 279

## DIN 60°

Female 90° Elbow Swivel



UC-DNFX90 P. 280

## Komatsu® 30° Flare with Metric Threads

Female Swivel



UC-KMFX P. 280

## Komatsu® 30° Flare with Metric Threads

Female 45° Elbow Swivel



UC-KMFX45 P. 281

## Komatsu® 30° Flare with Metric Threads

Female 90° Elbow Swivel



UC-KMFX90 P. 281

## JIS 30° (Parallel Pipe Threads)

Female Swivel



UC-JSFX P. 282

## Hose Joiner



UC-HJ P. 282

**FITTINGS**



**Section 5**  
UC Fittings

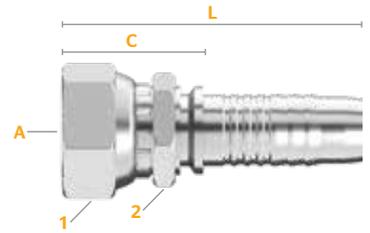
### COMPATIBLE HOSE:

SR1SN	SR5	HR6	SFS	ACP3
SR2SN	DR5	HR4	SCP3	BOP
SR3	SR6	SR14A		

For a detailed list, please refer to your Crimp Specifications Manual.

# JIC 37° Flare (SAE J514)

Female / Swivel



Part Number	Product Number	SAP Number										
			Hose ID	Thread Size (A)	Hex 1 Wrench Size	Hex 2 Wrench Size	Cut-Off (C)		Length (L)		in.	mm
			in.		in.	mm	in.	mm	in.	mm	in.	mm
UCH-JCFX-0304	36400-0304H	20530659	3/16	7/16-20	5/8	16	1/2	12	1.07	27.2	1.94	49.4
UC-JCFX-0403	36400-0403	20318324	1/4	3/8-24	1/2	12	1/2	12	1.11	28.1	2.09	53.0
UC-JCFX-0404	36400-0404	20242786	1/4	7/16-20	5/8	16	9/16	14	1.17	29.6	2.15	54.5
UC-JCFX-0404S	36400-0404S	20540685	1/4	7/16-20	5/8	16	9/16	14	1.17	29.6	2.15	54.5
UC-JCFX-0405	36400-0405	20242746	1/4	1/2-20	11/16	17	9/16	14	1.24	31.4	2.22	56.3
UC-JCFX-0406	36400-0406	20242778	1/4	9/16-18	3/4	19	9/16	14	1.23	31.2	2.21	56.1
UC-JCFX-0504	36400-0504	20629768	5/16	7/16-20	5/8	16	9/16	14	1.20	30.4	2.18	55.3
UC-JCFX-0505	36400-0505	20242676	5/16	1/2-20	11/16	17	9/16	14	1.24	31.4	2.22	56.3
UC-JCFX-0506	36400-0506	20242765	5/16	9/16-18	3/4	19	9/16	14	1.23	31.2	2.21	56.1
UC-JCFX-0604	36400-0604	20688966	3/8	7/16-20	5/8	16	11/16	17	1.237	31.4	2.217	56.3
UC-JCFX-0606	36400-0606	20242787	3/8	9/16-18	3/4	19	11/16	17	1.22	31.1	2.27	57.7
UC-JCFX-0606S	36400-0606S	20540686	3/8	9/16-18	3/4	19	11/16	17	1.22	31.1	2.27	57.7
UC-JCFX-0608	36400-0608	20242779	3/8	3/4-16	1	25	3/4	19	1.37	34.9	2.42	61.5
UC-JCFX-0608S	36400-0608S	20873146	3/8	3/4-16	1	25	3/4	19	1.37	34.9	2.42	61.5
UC-JCFX-0610	36400-0610	20242708	3/8	7/8-14	1 1/16	27	7/8	22	1.53	38.8	2.58	65.5
UC-JCFX-0706	36400-0706	20979890	13/32	9/16-18	3/4	19	11/16	17	1.223	31.1	2.272	57.7
UC-JCFX-0708	36400-0708	20979891	13/32	3/4-16	1	25	3/4	19	1.374	34.9	2.423	61.5
UC-JCFX-0710	36400-0710	20979892	13/32	7/8-14	1 1/16	27	7/8	22	1.529	38.8	2.578	65.5
UC-JCFX-0806	36400-0806	20242666	1/2	9/16-18	3/4	19	3/4	19	1.29	32.8	2.54	64.5
UC-JCFX-0808	36400-0808	20242785	1/2	3/4-16	1	25	3/4	19	1.44	36.7	2.69	68.4
UC-JCFX-0808S	36400-0808S	20540687	1/2	3/4-16	1	25	3/4	19	1.44	36.7	2.69	68.4
UC-JCFX-0810	36400-0810	20242772	1/2	7/8-14	1 1/16	27	7/8	22	1.56	39.6	2.81	71.3
UC-JCFX-0812	36400-0812	20242727	1/2	1 1/16-12	1 1/4	32	1	25	1.68	42.6	2.93	74.3
UC-JCFX-1008	36400-1008	20242399	5/8	3/4-16	1	25	15/16	24	1.52	38.7	2.88	73.2
UC-JCFX-1010	36400-1010	20242774	5/8	7/8-14	1 1/16	27	15/16	24	1.67	42.4	3.03	76.9
UC-JCFX-1010S	36400-1010S	20540688	5/8	7/8-14	1 1/16	27	15/16	24	1.67	42.4	3.03	76.9
UC-JCFX-1012	36400-1012	20242580	5/8	1 1/16-12	1 1/4	32	1	25	1.68	42.6	3.04	77.1
UC-JCFX-1210	36400-1210	20242694	3/4	7/8-14	1 1/4	32	1 1/16	27	1.63	41.4	3.18	80.8
UC-JCFX-1212	36400-1212	20242783	3/4	1 1/16-12	1 1/4	32	1 1/16	27	1.74	44.2	3.29	83.6
UC-JCFX-1212S	36400-1212S	20540689	3/4	1 1/16-12	1 1/4	32	1 1/16	27	1.74	44.2	3.29	83.6
UC-JCFX-1214	36400-1214	20242613	3/4	1 3/16-12	1 1/16	36	1 1/4	32	1.76	44.6	3.31	84.0
UC-JCFX-1216	36400-1216	20242719	3/4	1 3/16-12	1 1/2	38	1 1/4	32	1.89	48.1	3.45	87.5
UC-JCFX-1416	36400-1416	20283395	7/8	1 3/16-12	1 1/2	38	1 1/4	32	1.85	47.0	3.40	86.3
UC-JCFX-1612	36400-1612	20242702	1	1 1/16-12	1 1/4	32	1 1/4	32	1.88	47.7	3.65	92.8
UC-JCFX-1616	36400-1616	20242784	1	1 3/16-12	1 1/2	38	1 1/4	32	1.96	49.8	3.74	94.9
UC-JCFX-1616S	36400-1616S	20540690	1	1 3/16-12	1 1/2	38	1 1/4	32	1.96	49.8	3.74	94.9
UC-JCFX-1620 <sup>T</sup>	36400-1620	20242711	1	1 3/8-12	2	50	1 3/8	41	2.07	52.5	3.84	97.6

Continued on the next page.



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## Section 5 UC Fittings

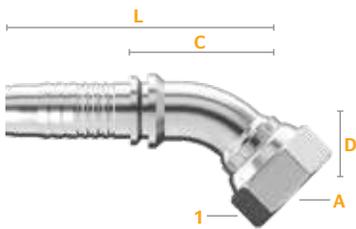
## FITTINGS



## JIC 37° Flare (Female) Continued

Part Number	Product Number	SAP Number	Hose ID	Thread Size (A)	Hex 1 Wrench Size		Hex 2 Wrench Size		Cut-Off (C)		Length (L)	
					in.	mm	in.	mm	in.	mm	in.	mm
UC-JCFX-1816	36400-1816	20613766	1 1/8	1 1/8-12	1 1/2	38	1 1/8	41	1.80	45.8	3.56	90.4
UC-JCFX-1820	36400-1820	20283399	1 1/8	1 1/8-12	2	50	1 1/8	41	2.09	53.0	3.84	97.6
UC-JCFX-2020 <sup>T</sup>	36400-2020	20242781	1 1/4	1 1/8-12	2	50	1 1/8	41	2.15	54.6	4.20	106.6
UC-JCFX-2020S	36400-2020S	20676944	1 1/4	1 1/8-12	2	50	1 1/8	41	2.15	54.6	4.20	106.6
UC-JCFX-2224	36400-2224	20283397	1 3/8	1 1/8-12	2 3/16	55	2	50	2.46	62.4	4.50	114.4
UC-JCFX-2420	36400-2420	20591960	1 1/2	1 1/8-12	2	50	2	50	2.21	56.2	4.54	115.4
UC-JCFX-2424 <sup>T</sup>	36400-2424	20242768	1 1/2	1 1/8-12	2 3/16	55	2	50	2.42	61.4	4.75	120.6
UC-JCFX-2932	36400-2932	20283398	1 9/16	2 1/2-12	2 9/16	70	2 3/16	65	2.86	72.7	5.70	144.8
UC-JCFX-3232 <sup>T</sup>	36400-3232	20242754	2	2 1/2-12	2 9/16	70	2 3/16	65	2.88	73.1	5.71	145.1
UC-JCFX-3232S	36400-3232S	20672343	2	2 1/2-12	2 9/16	70	2 3/16	65	2.88	73.1	5.71	145.1

<sup>T</sup>=Thrust-Wire Nut S=Stainless Steel (See Fitting Identification in Appendix for more information.)



## JIC 37° Flare (SAE J514)

Female / 45° Elbow / Swivel



Part Number	Product Number	SAP Number	Hose ID	Thread Size (A)	Hex 1 Wrench Size		Drop (D)		Cut-Off (C)		Length (L)	
					in.	mm	in.	mm	in.	mm	in.	mm
UC-JCFX45-0304	36420-0304	20685771	3/16	7/16-20	5/8	16	0.39	10.0	1.44	36.6	2.31	58.8
UC-JCFX45-0404	36420-0404	20242725	1/4	7/16-20	5/8	16	0.39	10.0	1.46	37.0	2.44	61.9
UC-JCFX45-0405	36420-0405	20242628	1/4	1/2-20	11/16	17	0.47	12.0	1.46	37.0	2.44	61.9
UC-JCFX45-0406	36420-0406	20242629	1/4	9/16-18	3/4	19	0.43	11.0	1.54	39.0	2.52	63.9
UC-JCFX45-0506	36420-0506	20242489	5/16	9/16-18	3/4	19	0.47	11.9	1.69	42.9	2.67	67.8
UC-JCFX45-0606	36420-0606	20242743	3/8	9/16-18	3/4	19	0.43	11.0	1.81	46.0	2.86	72.6
UC-JCFX45-0608	36420-0608	20242698	3/8	3/4-16	1	25	0.59	15.0	1.85	47.0	2.90	73.6
UC-JCFX45-0706	36420-0706	20979893	13/32	9/16-18	3/4	19	0.43	11.0	1.81	46.0	2.86	72.6
UC-JCFX45-0708	36420-0708	20979894	13/32	3/4-16	1	25	0.59	15.0	1.85	47.0	2.90	73.6
UC-JCFX45-0808	36420-0808	20242729	1/2	3/4-16	1	25	0.59	15.0	2.05	52.0	3.29	83.7
UC-JCFX45-0810	36420-0810	20242675	1/2	7/8-14	1 1/8	27	0.63	16.0	2.01	51.0	3.26	82.7
UC-JCFX45-1010	36420-1010	20242345	5/8	7/8-14	1 1/8	27	0.87	22.0	2.56	65.0	3.92	99.5
UC-JCFX45-1012	36420-1012	20242344	5/8	1 1/8-12	1 1/4	32	0.83	21.0	2.72	69.0	4.07	103.5
UC-JCFX45-1212	36420-1212	20242721	3/4	1 1/8-12	1 1/4	32	0.83	21.0	2.64	67.0	4.19	106.5
UC-JCFX45-1216	36420-1216	20242343	3/4	1 1/8-12	1 1/2	38	1.02	26.0	2.80	71.0	4.35	110.4
UC-JCFX45-1416	36420-1416	20749855	7/8	1 1/8-12	1 1/2	38	1.24	31.4	3.14	79.6	4.68	118.9
UC-JCFX45-1616	36420-1616	20242742	1	1 1/8-12	1 1/2	38	0.95	24.0	3.11	79.0	4.89	124.1

Continued on the next page.

## FITTINGS



## Section 5

UC Fittings

## COMPATIBLE HOSE:

SR1SN	SR5	HR6	SFS	ACP3
SR2SN	DR5	HR4	SCP3	BOP
SR3	SR6	SR14A		

For a detailed list, please refer to your Crimp Specifications Manual.

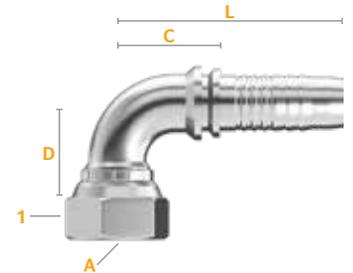
JIC 37° Flare (Female 45° Elbow) Continued

Part Number	Product Number	SAP Number	Hose ID	Thread Size (A)	Hex 1 Wrench Size		Drop (D)		Cut-Off (C)		Length (L)	
			in.		in.	mm	in.	mm	in.	mm	in.	mm
UC-JCFX45-1820	36420-1820	20367919	1 1/8	1 1/8-12	2	50	1.52	38.6	3.43	87.1	5.19	131.7
UC-JCFX45-2020 <sup>T</sup>	36420-2020	20242710	1 1/4	1 1/8-12	2	50	1.46	37.1	3.82	97.0	5.87	149.0
UC-JCFX45-2424 <sup>T</sup>	36420-2424	20242632	1 1/2	1 1/8-12	2 3/16	55	1.69	42.9	4.45	113.0	6.78	172.2
UC-JCFX45-3232 <sup>T</sup>	36420-3232	20269237	2	2 1/8-12	2 1/16	70	2.64	67.1	6.30	160.0	9.13	232.0

<sup>T</sup>=Thrust-Wire Nut (See Fitting Identification in Appendix for more information.)

## JIC 37° Flare (SAE J514)

Female / 90° Elbow / Swivel



Part Number	Product Number	SAP Number	Hose ID	Thread Size (A)	Hex 1 Wrench Size		Elbow Type*	Drop (D)		Cut-Off (C)		Length (L)	
			in.		in.	mm		in.	mm	in.	mm	in.	mm
UC-JCFX90-0304	36425-0304	20269250	3/16	7/16-20	5/8	16		1.26	32.0	1.30	33.0	2.17	55.2
UC-JCFX90-0404	36425-0404	20242770	1/4	7/16-20	5/8	16		1.26	32.0	1.34	34.0	2.32	58.9
UC-JCFX90L-0404	36440-0404	20242662	1/4	7/16-20	5/8	16	LT	1.81	46.0	1.25	31.8	2.23	56.7
UC-JCFX90S-0404	36445-0404	20242430	1/4	7/16-20	5/8	16	ST	0.83	21.0	1.06	27.0	2.04	51.9
UC-JCFX90-0405	36425-0405	20242657	1/4	1/2-20	11/16	17		1.18	30.0	1.02	26.0	2.00	50.9
UC-JCFX90L-0405	36440-0405	20242473	1/4	1/2-20	11/16	17	LT	1.77	45.0	1.02	26.0	2.00	50.9
UC-JCFX90S-0405	36445-0405	20242396	1/4	1/2-20	11/16	17	ST	0.93	23.5	1.02	26.0	2.00	50.9
UC-JCFX90-0406	36425-0406	20242718	1/4	9/16-18	3/4	19		1.50	38.0	1.10	28.0	2.08	52.9
UC-JCFX90L-0406	36440-0406	20242474	1/4	9/16-18	3/4	19	LT	2.13	54.0	1.34	34.0	2.32	58.9
UC-JCFX90S-0406	36445-0406	20242397	1/4	9/16-18	3/4	19	ST	0.91	23.0	1.22	31.0	2.20	55.9
UC-JCFX90-0504	36425-0504	20612476	5/16	7/16-20	5/8	16		1.26	32.0	1.34	34.0	2.32	58.9
UC-JCFX90-0505	36425-0505	20242565	5/16	1/2-20	3/4	17		1.38	35.1	1.34	34.0	2.32	58.9
UC-JCFX90-0506	36425-0506	20242490	5/16	9/16-18	3/4	19		1.38	35.1	1.30	33.0	2.28	57.9
UC-JCFX90L-0506	36440-0506	20242454	5/16	9/16-18	3/4	19	LT	2.13	54.1	1.42	36.1	2.40	61.0
UC-JCFX90-0604	36425-0604	20318323	3/8	7/16-20	5/8	16		1.26	32.0	1.38	35.0	2.43	61.6
UC-JCFX90L-0604	36440-0604	20318322	3/8	7/16-20	5/8	16	LT	1.81	46.0	1.22	31.0	2.27	57.6
UC-JCFX90-0606	36425-0606	20242776	3/8	9/16-18	3/4	19		1.50	38.0	31	57.6	2.27	57.6
UC-JCFX90L-0606	36440-0606	20242720	3/8	9/16-18	3/4	19	LT	2.13	54.0	1.69	43.0	2.74	69.6
UC-JCFX90S-0606	36445-0606	20242475	3/8	9/16-18	3/4	19	ST	0.91	23.0	1.65	42.0	2.70	68.7
UC-JCFX90-0608	36425-0608	20242753	3/8	3/4-16	1	25		1.61	41.0	1.54	39.0	2.58	65.6
UC-JCFX90L-0608	36440-0608	20242587	3/8	3/4-16	1	25	LT	2.52	64.0	1.85	47.0	2.90	73.6
UC-JCFX90S-0608	36445-0608	20242431	3/8	3/4-16	1	25	ST	1.14	29.0	1.93	49.0	2.98	75.6

Continued on the next page.



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**Section 5**  
UC Fittings

**FITTINGS**



## JIC 37° Flare (Female 90° Elbow) Continued

Part Number	Product Number	SAP Number	Hose ID	Thread Size (A)	Hex 1 Wrench Size		Elbow Type*	Drop (D)		Cut-Off (C)		Length (L)	
			in.	in.	mm	in.		mm	in.	mm	in.	mm	
UC-JCFX90-0706	36425-0706	20979910	13/32	9/16-18	3/4	19		1.50	38.0	1.22	31.0	2.27	57.6
UC-JCFX90L-0706	36440-0706	20979912	13/32	9/16-18	3/4	19	LT	2.13	54.0	1.69	43.0	2.74	69.6
UC-JCFX90S-0706	36445-0706	20979914	13/32	9/16-18	3/4	19	ST	0.91	23.0	1.65	42.0	2.70	68.7
UC-JCFX90-0708	36425-0708	20979911	13/32	3/4-16	1	25		1.61	41.0	1.54	39.0	2.58	65.6
UC-JCFX90L-0708	36440-0708	20979913	13/32	3/4-16	1	25	LT	2.52	64.0	1.85	47.0	2.89	73.6
UC-JCFX90S-0708	36445-0708	20979895	13/32	3/4-16	1	25	ST	1.14	29.0	1.93	49.0	2.98	75.6
UC-JCFX90-0808	36425-0808	20242764	1/2	3/4-16	1	25		1.58	40.0	1.46	37.0	2.70	68.7
UC-JCFX90L-0808	36440-0808	20242688	1/2	3/4-16	1	25	LT	2.52	64.0	1.97	50.0	3.22	81.7
UC-JCFX90S-0808	36445-0808	20242429	1/2	3/4-16	1	25	ST	1.14	29.0	1.81	46.0	3.06	77.7
UC-JCFX90-0810	36425-0810	20242706	1/2	7/8-14	1 1/16	27		1.85	47.0	1.69	43.0	2.94	74.7
UC-JCFX90L-0810	36440-0810	20242584	1/2	7/8-14	1 1/16	27	LT	2.56	65.0	1.46	37.0	2.70	68.7
UC-JCFX90S-0810	36445-0810	20242395	1/2	7/8-14	1 1/16	27	ST	1.26	32.0	1.81	46.0	3.06	77.7
UC-JCFX90-0812	36425-0812	20242349	1/2	1 1/16-12	1 1/4	32		1.81	46.0	1.46	37.0	2.70	68.7
UC-JCFX90-1010	36425-1010	20242749	5/8	7/8-14	1 1/16	27		1.89	48.0	1.93	49.0	3.29	83.5
UC-JCFX90L-1010	36440-1010	20242346	5/8	7/8-14	1 1/16	27	LT	2.56	65.0	1.97	50.0	3.32	84.4
UC-JCFX90S-1010	36445-1010	20591962	5/8	7/8-14	1 1/16	27	ST	1.26	32.0	1.93	49.0	3.29	83.5
UC-JCFX90-1012	36425-1012	20242350	5/8	1 1/16-12	1 1/4	32		2.28	58.0	1.89	48.0	3.25	82.5
UC-JCFX90L-1012	36440-1012	20283400	5/8	1 1/16-12	1 1/4	32	LT	3.78	96.0	2.35	59.7	3.71	94.2
UC-JCFX90L-1210	36440-1210	20591961	3/4	7/8-14	1 1/16	27	LT	2.76	70.0	1.97	50.0	3.52	89.5
UC-JCFX90S-1210	36445-1210	20613762	3/4	7/8-14	1 1/16	27	ST	1.26	32.0	1.97	50.0	3.52	89.5
UC-JCFX90-1212	36425-1212	20242756	3/4	1 1/16-12	1 1/4	32		2.13	54.0	2.05	52.0	3.60	91.4
UC-JCFX90L-1212	36440-1212	20242674	3/4	1 1/16-12	1 1/4	32	LT	3.74	95.0	2.13	54.0	3.68	93.4
UC-JCFX90S-1212	36445-1212	20591963	3/4	1 1/16-12	1 1/4	32	ST	1.81	46.0	2.28	58.0	3.84	97.4
UC-JCFX90-1216	36425-1216	20242579	3/4	1 1/16-12	1 1/2	38		2.84	72.0	2.09	53.0	3.64	92.5
UC-JCFX90-1416	36425-1416	20749859	7/8	1 1/16-12	1 1/2	38		2.85	72.3	2.93	74.5	4.48	113.7
UC-JCFX90-1616	36425-1616	20242758	1	1 1/16-12	1 1/2	38		2.81	71.4	2.89	73.4	4.67	118.5
UC-JCFX90L-1616	36440-1616	20242651	1	1 1/16-12	1 1/2	38	LT	4.49	114.0	3.11	79.0	4.89	124.1
UC-JCFX90S-1616	36445-1616	20591964	1	1 1/16-12	1 1/2	38	ST	2.21	56.0	2.91	74.0	4.69	119.1
UC-JCFX90-2020 <sup>T</sup>	36425-2020	20242752	1 1/4	1 1/16-12	2	50		3.07	78.0	3.23	82.0	5.28	134.0
UC-JCFX90S-2020 <sup>T</sup>	36445-2020	20591967	1 1/4	1 1/16-12	2	50	ST	2.52	64.0	3.23	82.0	5.28	134.0
UC-JCFX90-2424 <sup>T</sup>	36425-2424	20242645	1 1/2	1 1/16-12	2 3/16	55		3.62	91.9	3.94	100.0	6.27	159.1
UC-JCFX90-3232 <sup>T</sup>	36425-3232	20269239	2	2 1/2-12	2 9/16	70		5.51	140.0	5.08	129.0	7.91	201.0

T=Thrust-Wire Nut (See Fitting Identification in Appendix for more information.) \*Elbow Type: LT=Long Tube ST=Short Tube

## FITTINGS



## Section 5

UC Fittings

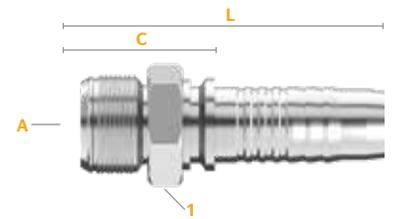
## COMPATIBLE HOSE:

SR1SN	SR5	HR6	SFS	ACP3
SR2SN	DR5	HR4	SCP3	BOP
SR3	SR6	SR14A		

For a detailed list, please refer to your Crimp Specifications Manual.

## JIC 37° Flare (SAE J514)

Male



Part Number	Product Number	SAP Number								
			Hose ID	Thread Size (A)	Hex 1 Wrench Size		Cut-Off (C)		Length (L)	
			in.		in.	mm	in.	mm	in.	mm
UC-JCM-0304	36450-0304	20592795	3/16	7/16-20	1/2	12	0.98	24.8	1.85	47.0
UC-JCM-0404	36450-0404	20242728	1/4	7/16-20	1/2	12	0.99	25.2	1.97	50.1
UC-JCM-0405	36450-0405	20242664	1/4	1/2-20	9/16	14	1.03	26.2	2.01	51.1
UC-JCM-0406	36450-0406	20242687	1/4	9/16-18	11/16	17	1.04	26.4	2.02	51.3
UC-JCM-0505	36450-0505	20242588	5/16	1/2-20	9/16	14	1.04	26.3	2.02	51.2
UC-JCM-0506	36450-0506	20242434	5/16	9/16-18	11/16	17	1.04	26.5	2.02	51.4
UC-JCM-0606	36450-0606	20242759	3/8	9/16-18	11/16	17	1.05	26.6	2.10	53.2
UC-JCM-0608	36450-0608	20242755	3/8	3/4-16	3/4	19	1.14	28.9	2.19	55.5
UC-JCM-0610	36450-0610	20242630	3/8	7/8-14	15/16	24	1.33	33.8	2.38	60.5
UC-JCM-0706	36450-0706	20979915	13/32	9/16-18	11/16	17	1.05	26.6	2.10	53.2
UC-JCM-0708	36450-0708	20979916	13/32	3/4-16	3/4	19	1.14	28.9	2.19	55.5
UC-JCM-0710	36450-0710	20979917	13/32	7/8-14	15/16	24	1.33	33.8	2.38	60.5
UC-JCM-0808	36450-0808	20242736	1/2	3/4-16	3/4	19	1.17	29.8	2.42	61.4
UC-JCM-0810	36450-0810	20242716	1/2	7/8-14	15/16	24	1.35	34.4	2.60	66.0
UC-JCM-0812	36450-0812	20242670	1/2	1 1/8-12	1 1/8	27	1.46	37.1	2.71	68.7
UC-JCM-1010	36450-1010	20242435	5/8	7/8-14	15/16	24	1.38	35.0	2.73	69.4
UC-JCM-1012	36450-1012	20242400	5/8	1 1/8-12	1 1/8	27	1.46	37.1	2.82	71.5
UC-JCM-1212	36450-1212	20242732	3/4	1 1/8-12	1 1/8	27	1.48	37.7	3.04	77.1
UC-JCM-1214	36450-1214	20242542	3/4	1 3/8-12	1 1/4	32	1.62	41.0	3.17	80.5
UC-JCM-1216	36450-1216	20242634	3/4	1 7/8-12	1 7/8	36	1.66	42.2	3.21	81.6
UC-JCM-1616	36450-1616	20242747	1	1 7/8-12	1 7/8	36	1.67	42.4	3.45	87.5
UC-JCM-1620	36450-1620	20242433	1	1 3/4-12	1 3/4	46	1.84	46.8	3.62	91.9
UC-JCM-2020	36450-2020	20242712	1 1/4	1 3/8-12	1 3/8	46	1.91	48.6	3.96	100.5
UC-JCM-2024	36450-2024	20242608	1 1/4	1 7/8-12	2	50	2.08	52.8	4.12	104.7
UC-JCM-2424	36450-2424	20242625	1 1/2	1 7/8-12	2	50	2.08	52.7	4.40	111.8
UC-JCM-3232	36450-3232	20242547	2	2 1/2-12	2 3/8	65	2.45	62.1	5.28	134.1

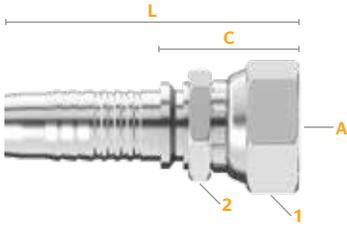


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**Section 5**  
UC Fittings

**FITTINGS**

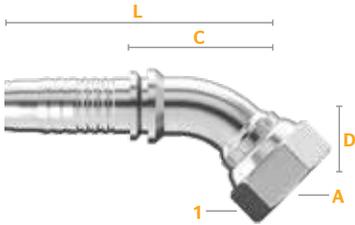




## SAE 45° J512 Flare

Female / Swivel

Part Number	Product Number	SAP Number										
			Hose ID	Thread Size (A)	Hex 1 Wrench Size	Hex 2 Wrench Size	Cut-Off (C)	Length (L)				
			in.		in.	mm	in.	mm	in.	mm	in.	mm
UC-SFFX-0304	36775-0304	20778888	3/16	7/16-20	5/8	16	1/2	13	1.07	27.2	1.94	49.4
UC-SFFX-0506	36775-0506	20778889	5/16	5/8-18	7/8	22	3/4	19	1.32	33.5	2.30	58.4
UC-SFFX-0606	36775-0606	20242760	3/8	5/8-18	7/8	22	3/4	19	1.32	33.6	2.37	60.2
UC-SFFX-0608	36775-0608	20318359	3/8	3/4-16	1	25	3/4	19	1.37	34.9	2.42	61.5
UC-SFFX-0706	36775-0706	20979936	13/32	5/8-18	7/8	22	3/4	19	1.32	33.6	2.37	60.2
UC-SFFX-0708	36775-0708	20979937	13/32	3/4-16	1	25	3/4	19	1.37	34.9	2.42	61.5
UC-SFFX-0808	36775-0808	20778907	1/2	3/4-16	1	25	7/8	22	1.44	36.7	2.69	68.4
UC-SFFX-0810	36775-0810	20778908	1/2	7/8-14	1 1/16	27	7/8	22	1.60	40.6	2.85	72.3
UC-SFFX-1212	36775-1212	20242652	3/4	1 1/16 -14	1 1/4	32	1 1/16	27	1.74	44.2	3.29	83.6



## SAE 45° J512 Flare

Female / 45° Elbow / Swivel

Part Number	Product Number	SAP Number										
			Hose ID	Thread Size (A)	Hex 1 Wrench Size	Drop (D)	Cut-Off (C)	Length (L)				
			in.		in.	mm	in.	mm	in.	mm	in.	mm
UC-SFFX45-0506	36777-0506	20778900	5/16	5/8-18	7/8	22	0.47	11.9	1.69	42.9	2.67	67.8
UC-SFFX45-0606	36777-0606	20318360	3/8	5/8-18	7/8	22	0.47	12.0	1.81	46.0	2.86	72.6
UC-SFFX45-0608	36777-0608	20778909	3/8	3/4-16	1	25	0.59	15.0	1.85	47.0	2.90	73.6
UC-SFFX45-0706	36777-0706	20979938	13/32	5/8-18	7/8	22	0.47	12.0	1.81	46.0	2.86	72.6
UC-SFFX45-0808	36777-0808	20318361	1/2	3/4-16	1	25	0.59	15.0	2.05	52.0	3.29	83.7
UC-SFFX45-0810	36777-0810	20778901	1/2	7/8-14	1 1/16	27	0.63	16.0	2.01	51.0	3.26	82.7

### FITTINGS



### Section 5

UC Fittings

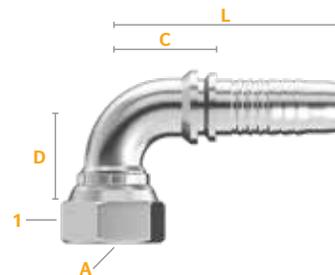
#### COMPATIBLE HOSE:

SR1SN	SR5	HR6	SFS	ACP3
SR2SN	DR5	HR4	SCP3	BOP
SR3	SR6	SR14A		

For a detailed list, please refer to your Crimp Specifications Manual.

## SAE 45° J512 Flare

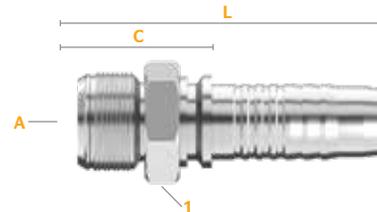
Female / 90° Elbow / Swivel



Part Number	Product Number	SAP Number										
			Hose ID	Thread Size (A)	Hex 1 Wrench Size	Drop (D)	Cut-Off (C)	Length (L)	in.	mm	in.	mm
UC-SFFX90-0506	36780-0506	20778902	5/16	5/8-18	7/8	22	1.38	35.1	1.30	33.0	2.28	57.9
UC-SFFX90-0606	36780-0606	20318325	3/8	5/8-18	7/8	22	0.95	24.0	1.65	42.0	2.70	68.7
UC-SFFX90L-0606	36781-0606	20318362	3/8	5/8-18	7/8	22	2.19	55.5	1.69	43.0	2.74	69.6
UC-SFFX90-0608	36781-0608	20761705	3/8	3/4-16	1	25	1.61	41.0	1.54	39.0	2.58	65.6
UC-SFFX90S-0608	36783-0608	20778910	3/8	3/4-16	1	25	1.14	29.0	1.93	49.0	2.98	75.6
UC-SFFX90-0706	36780-0706	20979939	13/32	5/8-18	7/8	22	0.95	24.0	1.65	42.0	2.70	68.7
UC-SFFX90-0808	36781-0808	20778903	1/2	3/4-16	1	25	1.58	40.0	1.46	37.0	2.70	68.7
UC-SFFX90S-0808	36783-0808	20318363	1/2	3/4-16	1	25	1.14	29.0	1.81	46.0	3.06	77.7
UC-SFFX90-0810	36781-0810	20778904	1/2	7/8-14	1 1/16	27	2.13	54.0	2.05	52.0	3.6	91.4
UC-SFFX90S-0810	36783-0810	20778905	1/2	7/8-14	1 1/16	27	1.26	32.0	1.81	46.0	3.06	77.7

## SAE 45° J512 Flare

Male



Part Number	Product Number	SAP Number									
			Hose ID	Thread Size (A)	Hex 1 Wrench Size	Cut-Off (C)	Length (L)	in.	mm	in.	mm
UC-SFM-0606	36785-0606	20318320	3/8	5/8-18	5/8	16	1.12	28.5	2.17	55.2	
UC-SFM-0608	36785-0810	20778911	3/8	3/4-16	3/4	19	1.23	31.2	2.28	57.9	
UC-SFM-0706	36785-0706	20979940	13/32	5/8-18	5/8	16	1.12	28.5	2.17	55.2	
UC-SFM-0808	36785-0808	20778906	1/2	3/4-16	3/4	19	1.27	32.1	2.51	63.8	

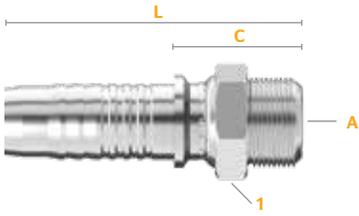


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**Section 5**  
UC Fittings

**FITTINGS**

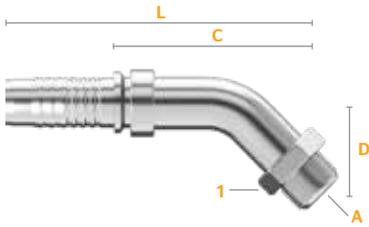




## SAE 45° Inverted Flare

Male / Swivel

Part Number	Product Number	SAP Number								
			Hose ID	Thread Size (A)	Hex 1 Wrench Size	Cut-Off (C)		Length (L)		
			in.		in.	mm	in.	mm	in.	mm
UC-SIMX-0403	36800-0403	20318328	1/4	3/8-24	1/2	12	1.68	42.7	2.66	67.6
UC-SIMX-0404	36800-0404	20318329	1/4	7/16-24	1/2	12	1.70	43.1	2.68	67.9
UC-SIMX-0405	36800-0405	20318330	1/4	1/2-20	9/16	14	1.83	46.6	2.81	71.5
UC-SIMX-0605	36800-0605	20318331	3/8	1/2-20	9/16	14	1.84	46.8	2.89	73.4
UC-SIMX-0606	36800-0606	20318332	3/8	5/8-18	11/16	17	1.89	48.0	2.94	74.7
UC-SIMX-0607	36800-0607	20318333	3/8	11/16-18	3/4	19	1.92	48.7	2.97	75.3
UC-SIMX-0808	36800-0808	20318334	1/2	3/4-18	3/4	19	2.00	50.8	3.25	82.5
UC-SIMX-0810	36800-0810	20318335	1/2	7/8-18	15/16	24	2.07	52.7	3.32	84.4



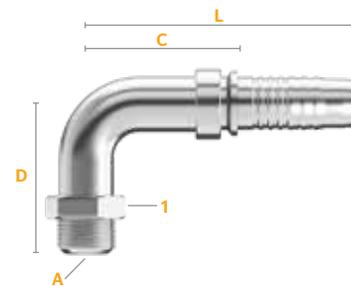
## SAE 45° Inverted Flare

Male / 45° Elbow / Swivel

Part Number	Product Number	SAP Number										
			Hose ID	Thread Size (A)	Hex 1 Wrench Size	Drop (D)		Cut-Off (C)		Length (L)		
			in.		in.	mm	in.	mm	in.	mm	in.	mm
UC-SIMX45-0403	36810-0403	20318336	1/4	3/8-24	1/2	12	1.24	31.5	2.68	68.1	3.66	93.0
UC-SIMX45-0404	36810-0404	20318337	1/4	7/16-24	1/2	12	1.24	31.5	2.68	68.1	3.66	93.0
UC-SIMX45-0604	36810-0604	20318338	3/8	7/16-24	1/2	12	1.57	39.8	2.95	74.9	4.00	101.6
UC-SIMX45-0605	36810-0605	20318339	3/8	1/2-20	9/16	14	1.50	38.1	2.99	75.9	4.04	102.6
UC-SIMX45-0606	36810-0606	20318340	3/8	5/8-18	11/16	17	1.50	38.1	2.99	75.9	4.04	102.6
UC-SIMX45-0607	36810-0607	20318341	3/8	11/16-18	3/4	19	1.50	38.1	2.99	75.9	4.04	102.6

# SAE 45° Inverted Flare

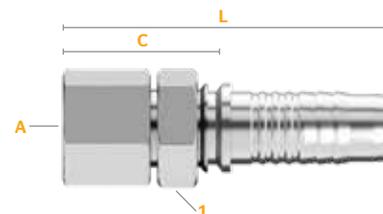
Male / 90° Elbow / Swivel



Part Number	Product Number	SAP Number										
			Hose ID	Thread Size (A)	Hex 1 Wrench Size	Drop (D)	Cut-Off (C)	Length (L)	in.	mm	in.	mm
UC-SIMX90-0404	36815-0404	20318343	1/4	7/16-24	1/2	12	2.05	52.1	1.30	33.0	2.28	57.9
UC-SIMX90-0405	36815-0405	20318344	1/4	1/2-20	9/16	14	1.96	49.8	1.52	38.6	2.50	63.5
UC-SIMX90-0604	36815-0604	20318345	3/8	7/16-24	1/2	12	2.44	62.0	1.34	34.0	2.39	60.7
UC-SIMX90-0605	36815-0605	20318346	3/8	1/2-20	9/16	14	2.44	62.0	1.38	35.1	2.43	61.7
UC-SIMX90-0606	36815-0606	20318347	3/8	5/8-18	11/16	17	2.44	62.0	1.38	35.1	2.43	61.7
UC-SIMX90-0607	36815-0607	20318348	3/8	11/16-18	3/4	19	2.44	62.0	1.38	35.1	2.43	61.7
UC-SIMX90-0808	36815-0808	20318349	1/2	3/4-18	3/4	19	2.32	58.9	2.13	54.1	3.38	85.8

# NPTF

Female



Part Number	Product Number	SAP Number									
			Hose ID	Thread Size (A)	Hex 1 Wrench Size	Cut-Off (C)	Length (L)	in.	mm	in.	mm
UC-NPF-0402	36600-0402	20638492	1/4	1/8-27	9/16	14	0.88	22.4	1.86	47.3	
UC-NPF-0404	36600-0404	20242660	1/4	1/4-18	3/4	19	1.09	27.6	2.07	52.5	
UC-NPF-0606	36600-0606	20242656	3/8	3/8-18	7/8	22	1.15	29.2	2.20	55.8	
UC-NPF-0706	36600-0706	20979918	13/32	3/8-18	7/8	22	1.15	29.2	2.20	55.8	
UC-NPF-0808	36600-0808	20242622	1/2	1/2-14	1	25	1.40	35.6	2.65	67.2	
UC-NPF-1212	36600-1212	20242548	3/4	3/4-14	1 1/4	32	1.51	38.4	3.06	77.8	

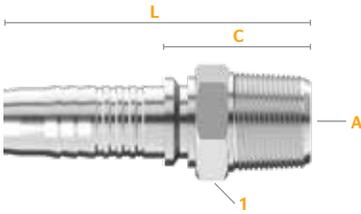


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**Section 5**  
UC Fittings

**FITTINGS**





# NPTF

Male



Part Number	Product Number	SAP Number	Hose ID	Thread Size (A)	Hex 1 Wrench Size		Cut-Off (C)		Length (L)	
			in.		in.	mm	in.	mm	in.	mm
UC-NPM-0302	36615-0302	20242703	3/16	1/8-27	1/2	12	0.78	19.7	1.65	41.9
UC-NPM-0402	36615-0402	20242766	1/4	1/8-27	9/16	14	0.84	21.2	1.82	46.1
UC-NPM-0404	36615-0404	20242780	1/4	1/4-18	11/16	17	1.06	27.0	2.04	51.9
UC-NPM-0404S	36615-0404S	20540691	1/4	1/4-18	11/16	17	1.06	27.0	2.04	51.9
UC-NPM-0406	36615-0406	20242748	1/4	3/8-18	3/4	19	1.09	27.7	2.07	52.6
UC-NPM-0408	36615-0408	20242661	1/4	1/2-14	7/8	22	1.27	32.2	2.25	57.1
UC-NPM-0504	36615-0504	20283392	5/16	1/4-18	11/16	17	1.07	27.1	2.05	52.0
UC-NPM-0504S	36615-0504S	20540692	5/16	1/4-18	11/16	17	1.07	27.1	2.05	52.0
UC-NPM-0506	36615-0506	20283396	5/16	3/8-18	3/4	19	1.10	27.9	2.08	52.8
UC-NPM-0508	36615-0508	20592578	5/16	1/2-14	7/8	22	1.27	32.3	2.25	57.2
UC-NPM-0604	36615-0604	20242761	3/8	1/4-18	11/16	17	1.07	27.2	2.12	53.8
UC-NPM-0606	36615-0606	20242782	3/8	3/8-18	3/4	19	1.10	27.9	2.15	54.6
UC-NPM-0606S	36615-0606S	20540693	3/8	3/8-18	3/4	19	1.10	27.9	2.15	54.6
UC-NPM-0608	36615-0608	20242767	3/8	1/2-14	7/8	22	1.27	32.4	2.32	59.0
UC-NPM-0704	36615-0704	20979896	13/32	1/4-18	11/16	17	1.07	27.2	2.12	53.8
UC-NPM-0706	36615-0706	20979897	13/32	3/8-18	3/4	19	1.10	27.9	2.15	54.6
UC-NPM-0708	36615-0708	20979898	13/32	1/2-14	7/8	22	1.27	32.4	2.32	59.0
UC-NPM-0806	36615-0806	20242722	1/2	3/8-18	3/4	19	1.12	28.4	2.37	60.1
UC-NPM-0808	36615-0808	20242775	1/2	1/2-14	7/8	22	1.30	33.0	2.55	64.7
UC-NPM-0808S	36615-0808S	20540694	1/2	1/2-14	7/8	22	1.30	33.0	2.55	64.7
UC-NPM-0812	36615-0812	20242679	1/2	3/4-14	1 1/16	27	1.34	34.1	2.59	65.8
UC-NPM-1012	36615-1012	20274105	5/8	3/4-14	1 1/16	27	1.35	34.4	2.71	68.9
UC-NPM-1208	36615-1208	20242689	3/4	1/2-14	1 1/16	27	1.32	33.5	2.87	73.0
UC-NPM-1212	36615-1212	20242771	3/4	3/4-14	1 1/16	27	1.36	34.6	2.92	74.1
UC-NPM-1212S	36615-1212S	20540695	3/4	3/4-14	1 1/16	27	1.36	34.6	2.92	74.1
UC-NPM-1216	36615-1216	20242649	3/4	1-11 1/2	1 1/16	36	1.72	43.7	3.27	83.1
UC-NPM-1416	36615-1416	20269531	7/8	1-11 1/2	1 1/16	36	1.73	43.9	3.27	83.1
UC-NPM-1612	36615-1612	20242684	1	3/4-14	1 1/16	36	1.56	39.5	3.33	84.6
UC-NPM-1616	36615-1616	20242769	1	1-11 1/2	1 1/16	36	1.73	43.9	3.51	89.0
UC-NPM-1616S	36615-1616S	20540696	1	1-11 1/2	1 1/16	36	1.73	43.9	3.51	89.0
UC-NPM-1620	36615-1620	20242638	1	1 1/4-11 1/2	1 3/16	46	1.88	47.8	3.66	92.8
UC-NPM-1820	36615-1820	20283394	1 1/8	1 1/4-11 1/2	1 3/16	46	1.89	48.0	3.65	92.6

Continued on the next page.

## FITTINGS



### Section 5

UC Fittings

#### COMPATIBLE HOSE:

- |       |     |       |      |      |
|-------|-----|-------|------|------|
| SR1SN | SR5 | HR6   | SFS  | ACP3 |
| SR2SN | DR5 | HR4   | SCP3 | BOP  |
| SR3   | SR6 | SR14A |      |      |

For a detailed list, please refer to your Crimp Specifications Manual.

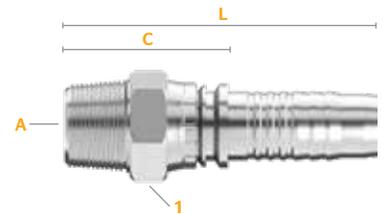
NPTF (Male) Continued

Part Number	Product Number	SAP Number	Hose ID	Thread Size (A)	Hex 1 Wrench Size		Cut-Off (C)		Length (L)	
			in.		in.	mm	in.	mm	in.	mm
UC-NPM-2020	36615-2020	20242773	1 ¼	1 ¼-11 ½	1 9/16	46	1.95	49.5	4.00	101.5
UC-NPM-2224	36615-2224	20283393	1 ¾	1 ½-11 ½	2	50	1.99	50.6	4.04	102.6
UC-NPM-2424	36615-2424	20242685	1 ½	1 ½-11 ½	2	50	2.01	51.0	4.34	110.1
UC-NPM-2424S	36615-2424S	20873147	1 ½	1 ½-11 ½	2	50	2.01	51.0	4.34	110.1
UC-NPM-2432S	36615-2424	20873148	1 ½	2-11 ½	2 9/16	65	2.14	54.4	4.98	126.5
UC-NPM-2932	36615-2932	20269535	1 9/16	2-11 ½	2 9/16	65	2.14	54.4	4.98	126.5
UC-NPM-3232	36615-3232	20242642	2	2-11 ½	2 9/16	65	2.14	54.5	4.98	126.4

S=Stainless Steel (See Fitting Identification in Appendix for more information.)

NPTF

Male / Swivel



Part Number	Product Number	SAP Number	Hose ID	Thread Size (A)	Hex 1 Wrench Size		Cut-Off (C)		Length (L)	
			in.		in.	mm	in.	mm	in.	mm
UC-NPMX-0404	36645-0404	20242757	1/4	1/4-18	11/16	17	1.49	37.8	2.47	62.7
UC-NPMX-0404S	36645-0404S	20879001	1/4	1/4-18	11/16	17	1.49	37.8	2.47	62.7
UC-NPMX-0406	36645-0406	20242519	1/4	3/8-18	7/8	22	1.57	39.9	2.55	64.8
UC-NPMX-0604	36645-0604	20242745	3/8	1/4-18	11/16	17	1.58	40.1	2.63	66.8
UC-NPMX-0606	36645-0606	20242777	3/8	3/8-18	7/8	22	1.49	37.8	2.54	64.4
UC-NPMX-0606S	36645-0606S	20879002	3/8	3/8-18	7/8	22	1.49	37.8	2.54	64.4
UC-NPMX-0608	36645-0608	20242751	3/8	1/2-14	1	25	1.71	43.5	2.76	70.2
UC-NPMX-0704	36645-0704	20979919	13/32	1/4-18	11/16	17	1.62	41.1	2.67	67.8
UC-NPMX-0706	36645-0706	20979920	13/32	3/8-18	7/8	22	1.53	38.8	2.58	65.5
UC-NPMX-0708	36645-0708	20979921	13/32	1/2-14	1	25	1.71	43.5	2.76	70.2
UC-NPMX-0806	36645-0806	20242503	1/2	3/8-18	7/8	22	1.51	38.5	2.76	70.1
UC-NPMX-0808	36645-0808	20242762	1/2	1/2-14	1	25	1.66	42.3	2.91	73.9
UC-NPMX-0808S	36645-0808S	20879003	1/2	1/2-14	1	25	1.66	42.3	2.91	73.9
UC-NPMX-1212	36645-1212	20242730	3/4	3/4-14	1 ¼	32	1.97	50.1	3.53	89.6
UC-NPMX-1212S	36645-1212S	20879004	3/4	3/4-14	1 ¼	32	1.97	50.1	3.53	89.6
UC-NPMX-1616	36645-1616	20242739	1	1-11 ½	1 ¾	41	2.30	58.4	4.07	103.5
UC-NPMX-1616S	36645-1616S	20879005	1	1-11 ½	1 ¾	41	2.30	58.4	4.07	103.5

S=Stainless Steel (See Fitting Identification in Appendix for more information.)

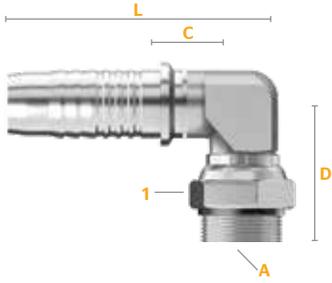


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**Section 5**  
UC Fittings

**FITTINGS**



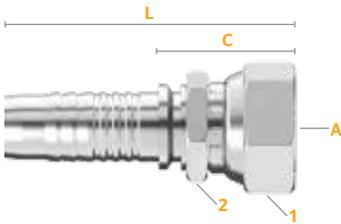


## NPTF

Male / 90° Block Elbow / Swivel

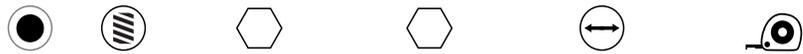


Part Number	Product Number	SAP Number	Hose ID		Thread Size (A)		Hex 1 Wrench Size		Drop (D)		Cut-Off (C)		Length (L)	
			in.	mm	in.	mm	in.	mm	in.	mm	in.	mm		
UC-NPMX90B-0404	36650-0404	20318350	1/4		1/4-18	11/16	17	1.69	42.9	0.71	18.1	1.69	43.0	
UC-NPMX90B-0604	36650-0604	20318351	3/8		1/4-18	11/16	17	1.63	41.5	0.92	23.3	1.97	50.0	
UC-NPMX90B-0606	36650-0606	20318352	3/8		3/8-18	7/8	22	1.62	41.2	0.92	23.3	1.97	50.0	
UC-NPMX90B-0808	36650-0808	20318353	1/2		1/2-14	1	25	2.15	54.6	1.16	29.4	2.41	61.1	
UC-NPMX90B-1212	36650-1212	20318364	3/4		3/4-14	1 1/4	32	2.58	65.6	1.24	31.5	2.80	71.0	



## NPSM

Female / Swivel



Part Number	Product Number	SAP Number	Hose ID		Thread Size (A)		Hex 1 Wrench Size		Hex 2 Wrench Size		Cut-Off (C)		Length (L)	
			in.	mm	in.	mm	in.	mm	in.	mm	in.	mm		
UC-NSFX-0404	36655-0404	20242668	1/4		1/4-18	3/4	19	11/16	17	1.19	30.2	2.17	55.1	
UC-NSFX-0606	36655-0606	20242669	3/8		3/8-18	7/8	22	3/4	19	1.24	31.4	2.29	58.0	
UC-NSFX-0706	36655-0706	20979922	13/32		3/8-18	7/8	22	3/4	19	1.24	31.4	2.29	58.0	
UC-NSFX-0808	36655-0808	20242654	1/2		1/2-14	1 1/16	27	7/8	22	1.35	34.3	2.60	66.0	
UC-NSFX-1212S	36655-1212S	20955326	3/4		3/4-14	1 1/4	32	1 3/16	30	1.46	37.1	3.01	76.5	
UC-NSFX-1616S	36655-1616S	20955327	1		1-11 1/2	1 1/2	38	1 3/16	36	1.76	44.7	3.54	89.9	

S=Stainless Steel (See Fitting Identification in Appendix for more information.)

## FITTINGS



## Section 5

UC Fittings

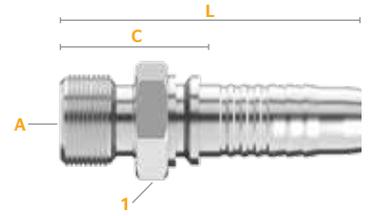
### COMPATIBLE HOSE:

SR1SN	SR5	HR6	SFS	ACP3
SR2SN	DR5	HR4	SCP3	BOP
SR3	SR6	SR14A		

For a detailed list, please refer to your Crimp Specifications Manual.

# SAE J514 Flareless Tube Fittings

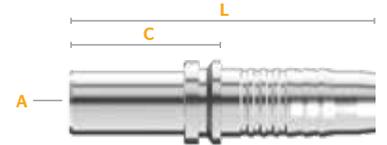
Male



Part Number	Product Number	SAP Number								
			Hose ID	Thread Size (A)	Hex 1 Wrench Size		Cut-Off (C)		Length (L)	
			in.		in.	mm	in.	mm	in.	mm
UC-FTM-0404	36360-0404	20286107	1/4	7/16-20	1/2	12	0.88	22.2	1.86	47.1
UC-FTM-0506	36360-0506	20295568	5/16	9/16-18	5/8	16	0.97	24.7	1.95	49.6
UC-FTM-0606	36360-0606	20286108	3/8	9/16-18	5/8	16	0.97	24.7	2.02	51.4

All fittings come with nut and sleeve.

# Standpipe



Part Number	Product Number	SAP Number						
			Hose ID	Tube OD (A)	Cut-Off (C)		Length (L)	
			in.	mm	in.	mm	in.	mm
UC-SP-0408	36825-0408	20242506	1/4	8	1.19	30.3	2.17	55.2
UC-SP-0410	36825-0410	20242461	1/4	10	1.27	32.3	2.25	57.2
UC-SP-0610	36825-0610	20242555	3/8	10	1.19	30.2	2.24	56.9
UC-SP-0612	36825-0612	20242576	3/8	12	1.15	29.2	2.20	55.9
UC-SP-0815	36825-0815	20242372	1/2	15	1.26	32.0	2.51	63.7
UC-SP-0816	36825-0816	20242482	1/2	16	1.46	37.1	2.71	68.8
UC-SP-1222	36825-1222	20242373	3/4	22	1.44	36.6	2.99	76.0
UC-SP-1628	36825-1628	20242371	1	28	1.59	40.4	3.37	85.5

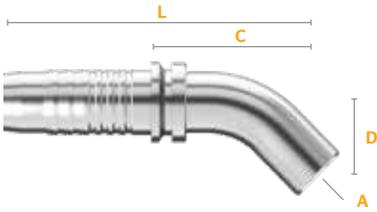


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**Section 5**  
UC Fittings

**FITTINGS**



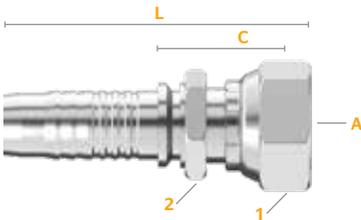


## Standpipe

45° Elbow



Part Number	Product Number	SAP Number	Hose ID		Drop (D)		Cut-Off (C)		Length (L)	
			in.	mm	in.	mm	in.	mm	in.	mm
UC-SP45-0408	36830-0408	20242370	1/4	8	0.91	23.1	1.69	42.9	2.67	67.8



## O-Ring Face Seal (SAE J1453 ORS/ORFS)

Female / Swivel



Part Number	Product Number	SAP Number	Hose ID	Thread Size (A)	Hex 1 Wrench Size		Hex 2 Wrench Size		Cut-Off (C)		Length (L)	
					in.	mm	in.	mm	in.	mm	in.	mm
UC-OFFX-0404	36700-0404	20242723	1/4	9/16-18	11/16	17	9/16	14	1.07	27.3	2.05	52.2
UC-OFFX-0406	36700-0406	20242655	1/4	11/16-16	7/8	22	11/16	17	1.19	30.1	2.17	55.0
UC-OFFX-0408	36700-0408	20242441	1/4	13/16-16	15/16	24	7/8	22	1.39	35.4	2.37	60.3
UC-OFFX-0506	36700-0506	20242544	5/16	11/16-16	7/8	22	11/16	17	1.19	30.2	2.17	55.1
UC-OFFX-0604	36700-0604	20612477	3/8	9/16-18	11/16	17	11/16	17	1.12	28.4	2.17	55.1
UC-OFFX-0606	36700-0606	20242763	3/8	11/16-16	7/8	22	11/16	17	1.19	30.3	2.24	56.9
UC-OFFX-0608	36700-0608	20242691	3/8	13/16-16	15/16	24	7/8	22	1.40	35.6	2.45	62.2
UC-OFFX-0706	36700-0706	20979926	13/32	11/16-16	7/8	22	11/16	17	1.19	30.3	2.24	56.9
UC-OFFX-0708	36700-0708	20979927	13/32	13/16-16	15/16	24	7/8	22	1.40	35.6	2.45	62.2
UC-OFFX-0806	36700-0806	20242552	1/2	11/16-16	7/8	22	3/4	19	1.26	32.0	2.51	63.7
UC-OFFX-0808	36700-0808	20242733	1/2	13/16-16	15/16	24	7/8	22	1.42	36.1	2.67	67.8
UC-OFFX-0808S	36700-0808S	20838430	1/2	13/16-16	15/16	24	7/8	22	1.42	36.1	2.67	67.8
UC-OFFX-0810	36700-0810	20242704	1/2	1-14	1 3/8	30	15/16	24	1.56	39.5	2.80	71.2
UC-OFFX-0812	36700-0812	20242551	1/2	1 3/8-12	1 7/8	36	1 3/8	30	1.66	42.1	2.90	73.8
UC-OFFX-1010	36700-1010	20242442	5/8	1-14	1 3/8	30	15/16	24	1.56	39.6	2.92	74.1
UC-OFFX-1012	36700-1012	20242367	5/8	1 3/8-12	1 7/8	36	1 3/8	30	1.66	42.1	3.10	78.8
UC-OFFX-1210	36700-1210	20242553	3/4	1-14	1 3/8	30	1 3/8	27	1.58	40.1	3.13	79.5
UC-OFFX-1212	36700-1212	20242741	3/4	1 3/8-12	1 7/8	36	1 3/8	30	1.67	42.3	3.22	81.8
UC-OFFX-1216	36700-1216	20242646	3/4	1 3/8-12	1 7/8	41	1 3/8	36	1.92	48.6	3.47	88.1

Continued on the next page.

## FITTINGS



## Section 5

UC Fittings

### COMPATIBLE HOSE:

SR1SN	SR5	HR6	SFS	ACP3
SR2SN	DR5	HR4	SCP3	BOP
SR3	SR6	SR14A		

For a detailed list, please refer to your Crimp Specifications Manual.

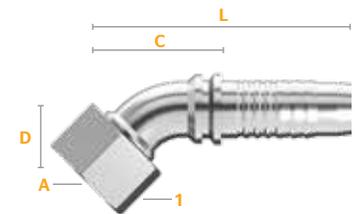
O-Ring Face Seal (Female) Continued

Part Number	Product Number	SAP Number	Hose ID	Thread Size (A)	Hex 1 Wrench Size		Hex 2 Wrench Size		Cut-Off (C)		Length (L)	
					in.	mm	in.	mm	in.	mm	in.	mm
UC-OFFX-1612	36700-1612	20242521	1	1 7/16 -12	1 7/16	36	1 1/4	32	1.79	45.3	3.56	90.4
UC-OFFX-1616	36700-1616	20242734	1	1 7/16 -12	1 5/8	41	1 7/16	36	1.95	49.4	3.72	94.5
UC-OFFX-1616S	36700-1616S	20838431	1	1 7/16 -12	1 5/8	41	1 7/16	36	1.95	49.4	3.72	94.5
UC-OFFX-1620	36700-1620	20242505	1	1 7/16 -12	2	50	1 5/8	41	1.98	50.3	3.76	95.4
UC-OFFX-2020	36700-2020	20242692	1 1/4	1 1/16 -12	2	50	1 5/8	41	2.08	52.9	4.13	104.9
UC-OFFX-2424	36700-2424	20242495	1 1/2	2-12	2 3/8	60	2	50	2.23	56.7	4.56	115.8
UC-OFFX-2424S	36700-2424S	20838432	1 1/2	2-12	2 3/8	60	2	50	2.23	56.7	4.56	115.8

S=Stainless Steel (See Fitting Identification in Appendix for more information.)

## O-Ring Face Seal (SAE J1453 ORS/ORFS)

Female / 45° Elbow / Swivel



Part Number	Product Number	SAP Number	Hose ID	Thread Size (A)	Hex 1 Wrench Size		Drop (D)		Cut-Off (C)		Length (L)	
					in.	mm	in.	mm	in.	mm	in.	mm
UC-OFFX45-0404	36710-0404	20242631	1/4	9/16-18	11/16	17	0.43	10.9	1.61	41.0	2.60	66.0
UC-OFFX45-0406	36710-0406	20242549	1/4	11/16-16	7/8	22	0.43	10.9	1.81	46.0	2.80	71.0
UC-OFFX45-0506	36710-0506	20242456	5/16	11/16-16	7/8	22	0.47	11.9	1.81	46.0	2.99	76.0
UC-OFFX45-0606	36710-0606	20242683	3/8	11/16-16	7/8	22	0.47	11.9	1.85	47.0	2.91	74.0
UC-OFFX45-0608	36710-0608	20242593	3/8	13/16-16	15/16	24	0.59	15.0	2.01	51.0	3.07	78.0
UC-OFFX45-0706	36710-0706	20979928	13/32	11/16-16	7/8	22	0.47	11.9	1.85	47.0	2.90	73.7
UC-OFFX45-0708	36710-0708	20979929	13/32	13/16-16	15/16	24	0.59	15.0	2.01	51.0	3.06	77.6
UC-OFFX45-0808 <sup>c</sup>	36710-0808	20242637	1/2	13/16-16	15/16	24	0.63	16.0	1.85	47.0	3.11	79.0
UC-OFFX45-0810	36710-0810	20242532	1/2	1-14	1 3/16	30	0.65	16.5	1.97	50.0	3.23	82.0
UC-OFFX45-1212	36710-1212	20242681	3/4	1 3/16 -12	1 7/16	36	0.83	21.0	2.48	63.0	4.06	103.0
UC-OFFX45-1216	36710-1216	20242359	3/4	1 7/16 -12	1 5/8	41	0.94	23.9	2.80	71.1	4.33	110.0
UC-OFFX45-1616	36710-1616	20242643	1	1 7/16 -12	1 5/8	41	1.02	26.0	3.23	81.9	5.00	127.0
UC-OFFX45-1620	36710-1620	20242355	1	1 1/16 -12	2	50	1.02	25.9	3.35	85.1	5.41	137.5
UC-OFFX45-2020	36710-2020	20242609	1 1/4	1 1/16 -12	2	50	1.02	25.9	3.82	97.0	6.16	156.5
UC-OFFX45-2024	36710-2024	20242477	1 1/4	2-12	2 3/8	60	1.10	27.9	3.98	101.1	6.34	161.0
UC-OFFX45-2424	36710-2424	20242357	1 1/2	2-12	2 3/8	60	1.10	27.9	4.13	104.9	6.77	172.0

C=Crimp Nut (See Fitting Identification in Appendix for more information.)

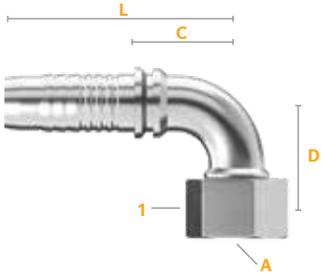


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**Section 5**  
UC Fittings

**FITTINGS**





## O-Ring Face Seal (SAE J1453 ORS/ORFS)

Female / 90° Elbow / Swivel

Part Number	Product Number	SAP Number											
			Hose ID	Thread Size (A)	Hex 1 Wrench Size	Elbow Type*	Drop (D)	Cut-Off (C)	Length (L)				
			in.	in.	in.	mm	in.	mm	in.	mm			
UC-OFFX90-0404	36715-0404	20242602	1/4	9/16-18	11/16	17		1.26	32.0	1.18	30.0	2.16	54.9
UC-OFFX90L-0404	36720-0404	20242533	1/4	9/16-18	11/16	17	LT	1.81	46.0	1.30	33.0	2.28	57.9
UC-OFFX90S-0404	36725-0404	20242682	1/4	9/16-18	11/16	17	ST	0.83	21.0	1.10	28.0	2.08	52.9
UC-OFFX90-0406	36715-0406	20242479	1/4	11/16-16	7/8	22		1.50	38.0	1.46	37.0	2.44	61.9
UC-OFFX90L-0406	36720-0406	20242492	1/4	11/16-16	7/8	22	LT	2.13	54.0	1.38	35.0	2.36	59.9
UC-OFFX90S-0406	36725-0406	20242598	1/4	11/16-16	7/8	22	ST	0.91	23.0	1.26	32.0	2.24	56.9
UC-OFFX90S-0506	36725-0506	20242494	5/16	11/16-16	7/8	22	ST	0.98	24.9	1.61	40.9	2.59	65.8
UC-OFFX90-0606	36715-0606	20242633	3/8	11/16-16	7/8	22		1.50	38.0	1.65	42.0	2.70	68.6
UC-OFFX90L-0606	36720-0606	20242615	3/8	11/16-16	7/8	22	LT	2.13	54.0	1.65	42.0	2.70	68.6
UC-OFFX90S-0606	36725-0606	20242717	3/8	11/16-16	7/8	22	ST	0.98	25.0	1.65	42.0	2.70	68.6
UC-OFFX90-0608	36715-0608	20242480	3/8	13/16-16	15/16	24		1.61	41.0	1.73	44.0	2.78	70.6
UC-OFFX90L-0608	36720-0608	20242493	3/8	13/16-16	15/16	24	LT	2.52	64.0	1.85	47.0	2.90	73.6
UC-OFFX90S-0608	36725-0608	20242620	3/8	13/16-16	15/16	24	ST	1.14	29.0	1.65	42.0	2.70	68.6
UC-OFFX90-0706	36715-0706	20979930	13/32	11/16-16	7/8	22		1.50	38.0	1.65	42.0	2.70	68.6
UC-OFFX90S-0706	36725-0706	20979932	13/32	11/16-16	7/8	22	ST	0.98	25.0	1.65	42.0	2.70	68.6
UC-OFFX90-0708	36715-0708	20979931	13/32	13/16-16	15/16	24		1.61	41.0	1.73	44.0	2.78	70.6
UC-OFFX90S-0708	36725-0708	20979933	13/32	13/16-16	15/16	24	ST	1.14	29.0	1.65	42.0	2.70	68.6
UC-OFFX90-0808 <sup>c</sup>	36715-0808	20242571	1/2	13/16-16	15/16	24		1.65	42.0	1.38	35.0	2.63	66.7
UC-OFFX90L-0808 <sup>c</sup>	36720-0808	20242566	1/2	13/16-16	15/16	24	LT	2.52	64.0	1.50	38.0	2.74	69.7
UC-OFFX90S-0808 <sup>c</sup>	36725-0808	20242663	1/2	13/16-16	15/16	24	ST	1.14	29.0	1.58	40.0	2.82	71.7
UC-OFFX90-0810	36715-0810	20242363	1/2	1-14	1 3/8	30		1.85	47.0	1.89	48.0	3.14	79.7
UC-OFFX90L-0810	36720-0810	20242438	1/2	1-14	1 3/8	30	LT	2.76	70.1	1.81	46.0	3.06	77.6
UC-OFFX90S-0810	36725-0810	20242550	1/2	1-14	1 3/8	30	ST	1.28	32.5	1.81	46.0	3.06	77.6
UC-OFFX90S-0812	36725-0812	20318321	1/2	1 3/16-12	1 7/8	36	ST	2.01	51.1	2.19	55.6	3.44	87.3
UC-OFFX90-1010	36715-1010	20242403	5/8	1-14	1 3/8	30		1.73	44.0	2.17	55.0	3.52	89.5
UC-OFFX90S-1010	36725-1010	20242365	5/8	1-14	1 3/8	30	ST	1.28	32.5	2.05	52.0	3.40	86.5
UC-OFFX90S-1012	36725-1012	20242364	5/8	1 3/16-12	1 7/8	36	ST	1.93	49.0	2.17	55.1	3.53	89.6
UC-OFFX90S-1210	36725-1210	20242457	3/4	1-14	1 3/8	30	ST	1.54	39.1	1.75	44.5	3.30	83.9
UC-OFFX90-1212	36715-1212	20242439	3/4	1 3/16-12	1 7/8	36		2.28	58.0	2.44	62.0	3.99	101.4
UC-OFFX90L-1212	36720-1212	20242514	3/4	1 3/16-12	1 7/8	36	LT	3.78	96.0	2.44	62.0	3.99	101.4
UC-OFFX90S-1212	36725-1212	20242680	3/4	1 3/16-12	1 7/8	36	ST	2.01	51.0	2.40	61.0	3.96	100.5
UC-OFFX90S-1216	36725-1216	20242481	3/4	1 7/8-12	1 5/8	41	ST	2.80	71.1	2.60	66.0	4.15	105.5

Continued on the next page.

### FITTINGS



### Section 5

UC Fittings

#### COMPATIBLE HOSE:

SR1SN	SR5	HR6	SFS	ACP3
SR2SN	DR5	HR4	SCP3	BOP
SR3	SR6	SR14A		

For a detailed list, please refer to your Crimp Specifications Manual.

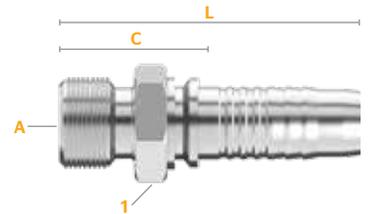
O-Ring Face Seal (Female 90° Elbow) Continued

Part Number	Product Number	SAP Number	Hose ID	Thread Size (A)	Hex 1		Elbow Type*	Drop (D)		Cut-Off (C)		Length (L)	
					Wrench Size			in.	mm	in.	mm	in.	mm
UC-OFFX90-1616	36715-1616	20242478	1	1 1/16-12	1 3/8	41		2.60	66.0	3.27	83.0	5.04	128.1
UC-OFFX90L-1616	36720-1616	20242504	1	1 1/16-12	1 3/8	41	LT	4.49	114.0	3.27	83.0	5.04	128.1
UC-OFFX90S-1616	36725-1616	20242690	1	1 1/16-12	1 3/8	41	ST	2.28	58.0	3.27	83.0	5.04	128.1
UC-OFFX90-1620	36715-1620	20242360	1	1 1/16-12	2	50		3.07	78.0	3.27	83.0	5.04	128.1
UC-OFFX90S-1620	36725-1620	20242440	1	1 1/16-12	2	50	ST	2.52	64.0	3.27	83.0	5.04	128.1
UC-OFFX90S-2020	36725-2020	20242671	1 1/4	1 1/16-12	2	50	ST	2.68	68.1	3.74	95.0	5.79	147.0
UC-OFFX90L-2024	36720-2024	20242402	1 1/4	2-12	2 3/8	60	LT	5.55	141.0	4.02	102.1	6.07	154.1
UC-OFFX90S-2024	36725-2024	20242405	1 1/4	2-12	2 3/8	60	ST	2.72	69.1	4.02	102.1	6.07	154.1
UC-OFFX90S-2424	36725-2424	20242404	1 1/2	2-12	2 3/8	60	ST	3.07	78.0	4.02	102.1	6.35	161.2

C=Crimp Nut (See Fitting Identification in Appendix for more information.) \*Elbow Type: LT=Long Tube ST=Short Tube

O-Ring Face Seal (SAE J1453 ORS/ORFS)

Male



Part Number	Product Number	SAP Number	Hose ID	Thread Size (A)	Hex 1		Cut-Off (C)	Length (L)		
					Wrench Size					
UC-OFM-0404	36730-0404	20242567	1/4	9/16-18	11/16	17	1.00	25.4	1.98	50.3
UC-OFM-0406	36730-0406	20777952	1/4	11/16-16	3/4	19	0.96	24.3	1.94	49.1
UC-OFM-0506	36730-0506	20959268	5/16	11/16-16	3/4	19	1.05	26.7	2.03	51.6
UC-OFM-0606	36730-0606	20242596	3/8	11/16-16	3/4	19	1.05	26.7	2.10	53.4
UC-OFM-0608	36730-0608	20242575	3/8	13/16-16	7/8	22	1.05	26.6	2.10	53.2
UC-OFM-0706	36730-0706	20979934	13/32	11/16-16	3/4	19	1.06	26.9	2.11	53.6
UC-OFM-0708	36730-0708	20979935	13/32	13/16-16	7/8	22	1.05	26.6	2.10	53.2
UC-OFM-0808	36730-0808	20242545	1/2	13/16-16	7/8	22	1.19	30.3	2.44	62.0
UC-OFM-0810	36730-0810	20242369	1/2	1-14	1 1/16	27	1.21	30.7	2.46	62.4
UC-OFM-0812	36730-0812	20242368	1/2	1 3/16-12	1 1/4	32	1.34	34.0	2.59	65.7
UC-OFM-1212	36730-1212	20242535	3/4	1 3/16-12	1 1/4	32	1.36	34.6	2.92	74.1
UC-OFM-1216	36730-1216	20242443	3/4	1 7/16-12	1 3/8	41	1.55	39.3	3.10	78.8
UC-OFM-1616	36730-1616	20242459	1	1 1/16-12	1 1/2	38	1.47	37.4	3.25	82.5
UC-OFM-2020	36730-2020	20242460	1 1/4	1 1/16-12	1 3/8	46	1.64	41.7	3.69	93.7

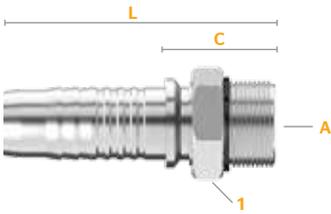


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**Section 5**  
UC Fittings

**FITTINGS**



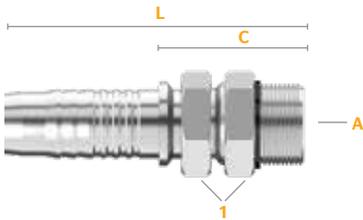


## O-Ring Boss Straight Thread (SAE J514)

Male



Part Number	Product Number	SAP Number	Hose ID		Thread Size (A)		Hex 1 Wrench Size		Cut-Off (C)		Length (L)	
			in.	mm	in.	mm	in.	mm	in.	mm	in.	mm
UC-OBM-0404	36670-0404	20242597	1/4		7/16-20		9/16	14	0.88	22.3	1.86	47.2
UC-OBM-0405	36670-0405	20242531	1/4		1/2-20		5/8	16	0.88	22.3	1.86	47.2
UC-OBM-0406	36670-0406	20242591	1/4		9/16-18		11/16	17	0.88	22.2	1.86	47.1
UC-OBM-0606	36670-0606	20242677	3/8		9/16-18		3/4	19	0.94	23.7	1.98	50.4
UC-OBM-0608	36670-0608	20242672	3/8		3/4-16		7/8	22	0.987	25.1	2.036	51.8
UC-OBM-0610	36670-0610	20242614	3/8		7/8-14		1 1/8	27	1.08	27.4	2.13	54.1
UC-OBM-0706	36670-0706	20979923	13/32		9/16-18		3/4	19	0.94	23.7	1.98	50.4
UC-OBM-0708	36670-0708	20979924	13/32		3/4-16		7/8	22	0.987	25.1	2.036	51.8
UC-OBM-0710	36670-0710	20979925	13/32		7/8-14		1 1/8	27	1.079	27.4	2.128	54.1
UC-OBM-0808	36670-0808	20242665	1/2		3/4-16		7/8	22	1.01	25.6	2.26	57.3
UC-OBM-0810	36670-0810	20242595	1/2		7/8-14		1 1/8	27	1.10	27.9	2.35	59.6
UC-OBM-0812	36670-0812	20242476	1/2		1 1/8-12		1 1/4	32	1.26	32.1	2.51	63.8
UC-OBM-1210	36670-1210	20242520	3/4		7/8-14		1 1/8	27	1.13	28.6	2.68	68.0
UC-OBM-1212	36670-1212	20242592	3/4		1 1/8-12		1 1/4	32	1.29	32.7	2.84	72.2
UC-OBM-1216	36670-1216	20242455	3/4		1 1/8-12		1 1/2	38	1.37	34.8	2.92	74.2
UC-OBM-1616	36670-1616	20242589	1		1 1/8-12		1 1/2	38	1.38	35.0	3.15	80.1



## O-Ring Boss Straight Thread (SAE J514)

Male / Swivel



Part Number	Product Number	SAP Number	Hose ID		Thread Size (A)		Hex 1 Wrench Size		Cut-Off (C)		Length (L)	
			in.	mm	in.	mm	in.	mm	in.	mm	in.	mm
UC-OBMX-0608	36680-0608	20318237	3/8		3/4-16		1	25	1.731	44.0	2.78	70.6
UC-OBMX-0808	36680-0808	20318238	1/2		3/4-16		1	25	1.682	42.7	2.93	74.4
UC-OBMX-0810	36680-0810	20318239	1/2		7/8-14		1	25	1.689	42.9	2.94	74.6

**FITTINGS**



### Section 5

UC Fittings

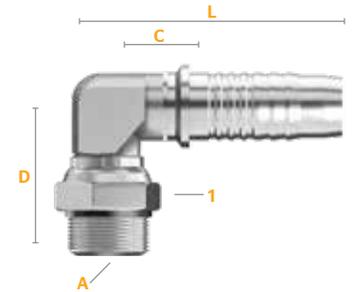
#### COMPATIBLE HOSE:

SR1SN	SR5	HR6	SFS	ACP3
SR2SN	DR5	HR4	SCP3	BOP
SR3	SR6	SR14A		

For a detailed list, please refer to your Crimp Specifications Manual.

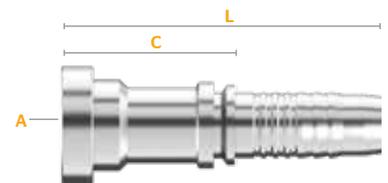
## O-Ring Boss Straight Thread (SAE J514)

Male / 90° Block Elbow / Swivel



Part Number	Product Number	SAP Number										
			Hose ID	Thread Size (A)	Hex 1 Wrench Size	Drop (D)	Cut-Off (C)	Length (L)	in.	mm	in.	mm
UC-OBMX90B-0405	36685-0405	20318354	1/4	1/2-20	11/16	17	1.48	37.6	0.71	18.1	1.69	43.0
UC-OBMX90B-0606	36685-0606	20318355	3/8	9/16-18	7/8	22	1.74	44.3	0.92	23.3	1.97	50.0
UC-OBMX90B-0608	36685-0608	20318356	3/8	3/4-16	1	25	2.17	55.0	1.13	28.8	2.18	55.4
UC-OBMX90B-0808	36685-0808	20318357	1/2	3/4-16	1	25	2.17	55.0	1.16	29.4	2.41	61.1
UC-OBMX90B-0810	36685-0810	20318358	1/2	7/8-14	1	25	2.17	55.2	1.16	29.4	2.41	61.1
UC-OBMX90B-1212	36685-1212	20318365	1	1 1/8-12	1 1/4	32	2.58	65.5	1.24	31.5	2.80	71.0

## Code 61 Flange (SAE J518)



Part Number	Product Number	SAP Number									
			Hose ID	Flange Size	Flange Diameter (A)	Cut-Off (C)	Length (L)	in.	mm	in.	mm
UC-FL-0808	36320-0808	20242569	1/2	1/2	1.19	30.2	1.61	40.9	2.86	72.6	
UC-FL-0812	36320-0812	20242300	1/2	3/4	1.50	38.1	1.65	41.9	2.90	73.6	
UC-FL-1212	36320-1212	20242707	3/4	3/4	1.50	38.1	1.67	42.4	3.22	81.9	
UC-FL-1216	36320-1216	20242650	3/4	1	1.75	44.5	1.99	50.5	3.54	90.0	
UC-FL-1616	36320-1616	20242744	1	1	1.75	44.5	2.02	51.3	3.80	96.4	
UC-FL-1620	36320-1620	20242697	1	1 1/4	2.00	50.8	2.12	53.8	3.90	98.9	
UC-FL-2020	36320-2020	20242750	1 1/4	1 1/4	2.00	50.8	2.19	55.6	4.24	107.6	
UC-FL-2024	36320-2024	20242695	1 1/4	1 1/2	2.37	60.3	2.30	58.4	4.35	110.4	
UC-FL-2424	36320-2424	20242726	1 1/2	1 1/2	2.37	60.3	2.31	58.7	4.64	117.8	
UC-FL-2432	36320-2432	20242605	1 1/2	2	2.81	71.4	2.76	70.1	5.09	129.2	
UC-FL-3232	36320-3232	20242693	2	2	2.81	71.4	2.76	70.1	5.59	142.1	
UC-FL-4040	36320-4040	20242599	2 1/2	2 1/2	3.31	84.1	2.24	56.9	5.49	139.4	

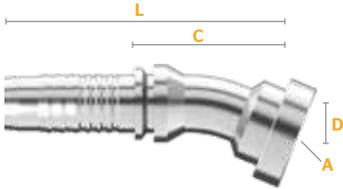


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**Section 5**  
UC Fittings

**FITTINGS**

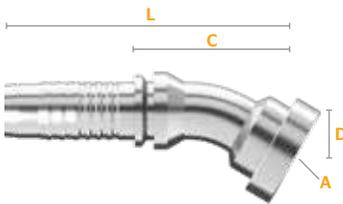




## Code 61 Flange (SAE J518)

22.5° Elbow

Part Number	Product Number	SAP Number										
			Hose ID	Flange Size	Flange Diameter (A)		Drop (D)		Cut-Off (C)		Length (L)	
			in.		in.	mm	in.	mm	in.	mm	in.	mm
UC-FL22-1616	36330-1616	20242623	1	1	1.75	44.5	0.47	11.9	3.66	93.0	5.44	138.0
UC-FL22-2020	36330-2020	20242568	1 ¼	1 ¼	2.00	50.8	0.63	16.0	4.49	114.0	6.54	166.0
UC-FL22-2424	36330-2424	20242465	1 ½	1 ½	2.37	60.3	0.65	16.5	5.16	131.1	7.49	190.2



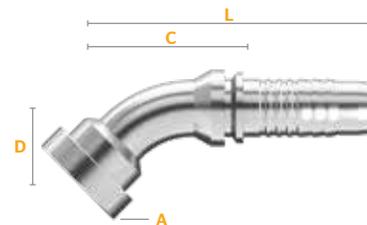
## Code 61 Flange (SAE J518)

30° Elbow

Part Number	Product Number	SAP Number										
			Hose ID	Flange Size	Flange Diameter (A)		Drop (D)		Cut-Off (C)		Length (L)	
			in.		in.	mm	in.	mm	in.	mm	in.	mm
UC-FL30-1212	36335-1212	20242577	3/4	3/4	1.50	38.1	0.75	19.1	3.19	81.0	4.74	120.5
UC-FL30-1216	36335-1216	20242379	3/4	1	1.75	44.5	0.75	19.1	3.31	84.1	4.86	123.5
UC-FL30-1616	36335-1616	20242497	1	1	1.75	44.5	0.83	21.1	3.54	89.9	5.32	135.0
UC-FL30-1620	36335-1620	20242498	1	1 ¼	2.00	50.8	0.87	22.1	3.54	89.9	5.32	135.0
UC-FL30-2020	36335-2020	20242616	1 ¼	1 ¼	2.00	50.8	0.98	24.9	4.02	102.1	6.07	154.1
UC-FL30-2024	36335-2024	20242378	1 ¼	1 ½	2.37	60.3	1.06	26.9	4.41	112.0	6.46	164.0
UC-FL30-2424	36335-2424	20242582	1 ½	1 ½	2.37	60.3	0.91	23.1	5.35	135.9	7.68	195.0

## Code 61 Flange (SAE J518)

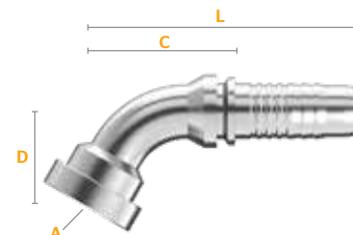
45° Elbow



Part Number	Product Number	SAP Number										
			Hose ID	Flange Size	Flange Diameter (A)		Drop (D)		Cut-Off (C)		Length (L)	
			in.		in.	mm	in.	mm	in.	mm	in.	mm
UC-FL45-0808	36340-0808	20242508	1/2	1/2	1.19	30.2	0.87	22.1	2.09	53.1	3.34	84.8
UC-FL45-0812	36340-0812	20242293	1/2	3/4	1.50	38.1	1.02	25.9	2.36	59.9	3.61	91.6
UC-FL45-1212	36340-1212	20242678	3/4	3/4	1.50	38.1	1.26	32.0	2.91	73.9	4.46	113.4
UC-FL45-1216	36340-1216	20242617	3/4	1	1.75	44.5	1.14	29.0	3.07	78.0	4.62	117.4
UC-FL45-1616	36340-1616	20242700	1	1	1.75	44.5	1.32	33.5	3.27	83.1	5.05	128.1
UC-FL45-1620	36340-1620	20242653	1	1 1/4	2.00	50.8	1.42	36.1	3.23	82.0	5.01	127.1
UC-FL45-2020	36340-2020	20242705	1 1/4	1 1/4	2.00	50.8	1.48	37.6	3.74	95.0	5.79	147.0
UC-FL45-2024	36340-2024	20242648	1 1/4	1 1/2	2.37	60.3	1.57	39.9	4.09	103.9	6.14	155.9
UC-FL45-2424	36340-2424	20242686	1 1/2	1 1/2	2.37	60.3	1.89	48.0	4.61	117.1	6.94	176.2
UC-FL45-3232	36340-3232	20242640	2	2	2.81	71.4	1.87	47.5	5.55	141.0	8.38	213.0
UC-FL45-4040	36340-4040	20242509	2 1/2	2 1/2	3.31	84.1	2.09	53.0	5.47	139.0	8.74	222.0

## Code 61 Flange (SAE J518)

60° Elbow



Part Number	Product Number	SAP Number										
			Hose ID	Flange Size	Flange Diameter (A)		Drop (D)		Cut-Off (C)		Length (L)	
			in.		in.	mm	in.	mm	in.	mm	in.	mm
UC-FL60-1212	36345-1212	20242516	3/4	3/4	1.50	38.1	1.49	37.8	3.39	86.1	4.94	125.6
UC-FL60-1216	36345-1216	20242499	3/4	1	1.75	44.5	1.73	43.9	4.02	102.1	5.66	143.8
UC-FL60-1616	36345-1616	20242510	1	1	1.75	44.5	1.85	47.0	3.98	101.1	5.76	146.2
UC-FL60-1620	36345-1620	20242560	1	1 1/4	2.00	50.8	1.71	43.4	4.20	106.7	5.98	151.8
UC-FL60-2020	36345-2020	20242523	1 1/4	1 1/4	2.00	50.8	2.22	56.4	5.10	129.5	7.15	181.5
UC-FL60-2424	36345-2424	20242380	1 1/2	1 1/2	2.37	60.3	2.28	57.9	5.31	134.9	7.36	186.8

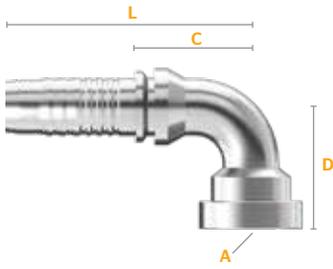


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**Section 5**  
UC Fittings

**FITTINGS**





## Code 61 Flange (SAE J518)

90° Elbow

Part Number	Product Number	SAP Number										
			Hose ID	Flange Size	Flange Diameter (A)	Drop (D)	Cut-Off (C)	Length (L)	in.	mm	in.	mm
UC-FL90-0808	36350-0808	20242537	1/2	1/2	1.19	30.2	1.65	41.9	1.81	46.0	3.06	77.6
UC-FL90-0812	36350-0812	20242381	1/2	3/4	1.50	38.1	2.01	51.1	1.77	45.0	3.02	76.6
UC-FL90-1212	36350-1212	20242696	3/4	3/4	1.50	38.1	2.36	59.9	2.28	57.9	3.83	97.4
UC-FL90-1216	36350-1216	20242667	3/4	1	1.75	44.5	2.54	64.5	2.60	66.0	4.15	105.5
UC-FL90-1616	36350-1616	20242740	1	1	1.75	44.5	2.64	67.1	2.80	71.1	4.58	116.2
UC-FL90-1620	36350-1620	20242701	1	1 1/4	2.00	50.8	2.80	71.1	2.91	73.9	4.69	119.0
UC-FL90-2016	36350-2016	20242583	1 1/4	1	1.75	44.5	2.56	65.0	3.70	94.0	5.75	145.9
UC-FL90-2020	36350-2020	20242735	1 1/4	1 1/4	2.00	50.8	3.31	84.1	3.46	87.9	5.51	139.9
UC-FL90-2024	36350-2024	20242713	1 1/4	1 1/2	2.37	60.3	3.44	87.4	3.58	90.9	5.63	142.9
UC-FL90-2424	36350-2424	20242714	1 1/2	1 1/2	2.37	60.3	3.58	90.9	4.13	104.9	6.46	164.0
UC-FL90-2432	36350-2432	20242724	1 1/2	2	2.81	71.4	4.53	115.1	4.13	104.9	6.46	164.0
UC-FL90-3224	36350-3224	20588738	2	1 1/2	2.37	60.3	5.24	133.1	5.24	133.1	8.23	209.0
UC-FL90-3232	36350-3232	20242737	2	2	2.81	71.4	5.12	130.0	5.08	129.0	7.91	201.0
UC-FL90-3240	36350-3240	20932839	2	2 1/2	3.31	84.1	5.12	130.0	5.08	129.0	7.91	201.0
UC-FL90-4024	36530-4024	20793532	2 1/2	1 1/2	2.37	60.3	5.06	128.6	5.55	140.9	8.80	223.5
UC-FL90-4032	36530-4032	20793534	2 1/2	2	2.81	71.4	4.19	106.4	5.94	150.9	9.19	233.5
UC-FL90-4040	36350-4040	20245157	2 1/2	2 1/2	3.31	84.1	5.75	146.0	6.30	160.0	9.55	242.5

## FITTINGS



## Section 5

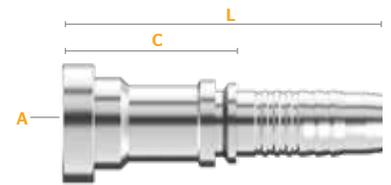
UC Fittings

### COMPATIBLE HOSE:

SR1SN	SR5	HR6	SFS	ACP3
SR2SN	DR5	HR4	SCP3	BOP
SR3	SR6	SR14A		

For a detailed list, please refer to your Crimp Specifications Manual.

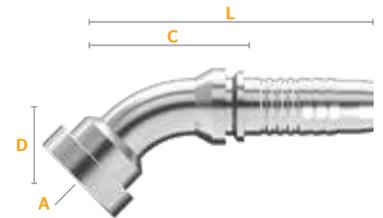
## Code 62 Flange (SAE J518)



Part Number	Product Number	SAP Number								
			Hose ID	Flange Size	Flange Diameter (A)		Cut-Off (C)		Length (L)	
			in.		in.	mm	in.	mm	in.	mm
UC-FH-1212	36300-1212	20242607	3/4	3/4	1.63	41.3	2.07	52.6	3.62	92.0
UC-FH-1216	36300-1216	20242467	3/4	1	1.87	47.6	2.19	55.5	3.74	95.0
UC-FH-1616	36300-1616	20242647	1	1	1.87	47.6	2.20	55.9	4.00	101.5
UC-FH-1620	36300-1620	20242572	1	1 ¼	2.13	54.0	2.48	62.9	4.25	108.0
UC-FH-2020	36300-2020	20242659	1 ¼	1 ¼	2.13	54.0	3.20	81.3	5.32	135.0
UC-FH-2024	36300-2024	20242419	1 ¼	1 ½	2.50	63.5	2.79	71.0	4.84	122.9
UC-FH-2424	36300-2424	20242601	1 ½	1 ½	2.50	63.5	3.74	95.0	6.07	154.1
UC-FH-3232	36300-3232	20242512	2	2	3.13	79.4	2.99	75.9	5.82	147.9

## Code 62 Flange (SAE J518)

45° Elbow



Part Number	Product Number	SAP Number										
			Hose ID	Flange Size	Flange Diameter (A)		Drop (D)	Cut-Off (C)		Length (L)		
			in.		in.	mm	in.	mm	in.	mm	in.	mm
UC-FH45-1212	36310-1212	20242570	3/4	3/4	1.63	41.3	1.22	31.0	3.31	84.1	4.86	123.5
UC-FH45-1616	36310-1616	20242618	1	1	1.87	47.6	1.42	36.1	3.82	97.0	5.60	142.1
UC-FH45-1620	36310-1620	20242527	1	1 ¼	2.13	54.0	1.54	39.1	3.78	96.0	5.65	143.4
UC-FH45-2020	36310-2020	20242600	1 ¼	1 ¼	2.13	54.0	1.57	39.9	4.29	109.0	6.34	160.9
UC-FH45-2424	36310-2424	20242517	1 ½	1 ½	2.50	63.5	1.77	45.0	4.84	122.9	7.17	182.1
UC-FH45-3232	36310-3232	20242383	2	2	3.13	79.4	2.36	59.9	6.18	157.0	9.01	229.0

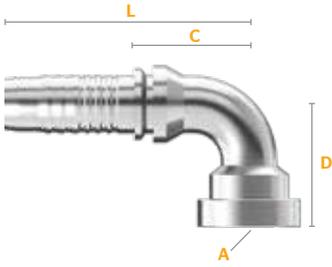


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**Section 5**  
UC Fittings

**FITTINGS**

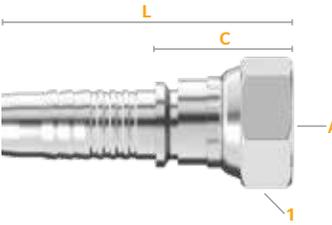




## Code 62 Flange (SAE J518)

90° Elbow

Part Number	Product Number	SAP Number										
			Hose ID	Flange Size	Flange Diameter (A)		Drop (D)		Cut-Off (C)		Length (L)	
			in.		in.	mm	in.	mm	in.	mm	in.	mm
UC-FH90-0808	36315-0808	20242306	1/2	1/2	1.25	31.8	1.81	46.0	1.89	48.0	3.32	84.3
UC-FH90-1212	36315-1212	20242621	3/4	3/4	1.63	41.3	2.40	61.0	2.48	63.0	4.03	102.4
UC-FH90-1216	36315-1216	20242511	3/4	1	1.87	47.6	2.60	66.0	2.48	63.0	4.03	102.4
UC-FH90-1616	36315-1616	20242673	1	1	1.87	47.6	2.95	74.9	2.91	73.9	4.69	119.0
UC-FH90-1620	36315-1620	20242585	1	1 ¼	2.13	54.0	3.07	78.0	3.07	78.0	4.85	123.1
UC-FH90-2020	36315-2020	20242635	1 ¼	1 ¼	2.13	54.0	3.50	88.9	3.70	94.0	5.75	145.9
UC-FH90-2024	36315-2024	20242418	1 ¼	1 ½	2.50	63.5	3.70	94.0	3.86	98.0	5.91	150.0
UC-FH90-2424	36315-2424	20242578	1 ½	1 ½	2.50	63.5	4.13	104.9	3.94	100.1	6.27	159.2
UC-FH90-3232	36315-3232	20242487	2	2	3.13	79.4	5.20	132.1	5.63	143.0	8.46	215.0



## BSPF (British Standard Pipe Parallel)

Female / Swivel

Part Number	Product Number	SAP Number							
			Hose ID	Thread Size (A)	Hex 1 Wrench Size	Cut-Off (C)		Length (L)	
			in.		mm	in.	mm	in.	mm
UC-BPFX-0404	36105-0404	20242738	1/4	1/4-19	19	0.93	23.7	1.91	48.6
UC-BPFX-0406	36105-0406	20242462	1/4	3/8-19	22	1.09	27.6	2.07	52.5
UC-BPFX-0606	36105-0606	20242731	3/8	3/8-19	22	1.09	27.8	2.14	54.4
UC-BPFX-0608	36105-0608	20242557	3/8	1/2-14	27	1.20	30.4	2.24	57.0
UC-BPFX-0706	36105-0706	20979899	13/32	3/8-19	22	1.09	27.8	2.14	54.4
UC-BPFX-0708	36105-0708	20979900	13/32	1/2-14	27	1.20	30.4	2.24	57.0
UC-BPFX-0808	36105-0808	20242715	1/2	1/2-14	27	1.22	31.0	2.47	62.7
UC-BPFX-0810	36105-0810	20242406	1/2	5/8-14	27	1.48	37.6	2.73	69.3
UC-BPFX-1212 <sup>C</sup>	36105-1212	20242626	3/4	3/4-14	32	1.17	29.7	2.72	69.1
UC-BPFX-1616 <sup>C</sup>	36105-1616	20242627	1	1-11	38	1.36	34.4	3.13	79.5
UC-BPFX-2020 <sup>T</sup>	36105-2020	20242483	1 ¼	1 ¼-11	50	1.69	42.8	3.73	94.8
UC-BPFX-2424 <sup>T</sup>	36105-2424	20242806	1 ½	1 ½-11	55	1.80	45.8	4.13	105.0
UC-BPFX-3232	36105-3232	20310550	2	2-11	70	1.98	50.2	4.81	122.2

C=Crimp Nut T=Thrust-Wire Nut (See Fitting Identification in Appendix for more information.)

### FITTINGS



### Section 5

UC Fittings

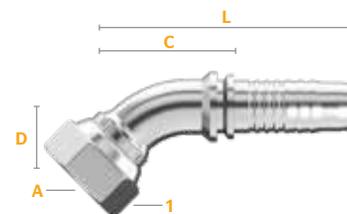
#### COMPATIBLE HOSE:

SR1SN	SR5	HR6	SFS	ACP3
SR2SN	DR5	HR4	SCP3	BOP
SR3	SR6	SR14A		

For a detailed list, please refer to your Crimp Specifications Manual.

## BSPB (British Standard Pipe Parallel)

Female / 45° Elbow / Swivel

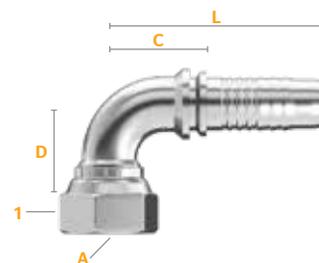


Part Number	Product Number	SAP Number									
			Hose ID	Thread Size (A)	Hex 1 Wrench Size	Drop (D)	Drop (D)	Cut-Off (C)	Cut-Off (C)	Length (L)	Length (L)
			in.		mm	in.	mm	in.	mm	in.	mm
UC-BPFX45-0404	36115-0404	20242444	1/4	1/4-19	19	0.59	15.0	1.81	46.0	2.79	70.9
UC-BPFX45-0606	36115-0606	20242496	3/8	3/8-19	22	0.81	20.6	1.97	50.0	3.02	76.7
UC-BPFX45-0706	36115-0706	20979901	13/32	3/8-19	22	0.81	20.6	1.97	50.0	3.02	76.7
UC-BPFX45-0808	36115-0808	20242803	1/2	1/2-14	27	0.83	21.1	2.17	55.1	3.42	86.8
UC-BPFX45-1212 <sup>c</sup>	36115-1212	20242445	3/4	3/4-14	32	1.10	27.9	2.76	70.1	4.31	109.6
UC-BPFX45-1616 <sup>c</sup>	36115-1616	20242801	1	1-11	38	1.34	34.0	3.31	84.1	5.09	129.2

C=Crimp Nut (See Fitting Identification in Appendix for more information.)

## BSPB (British Standard Pipe Parallel)

Female / 90° Elbow / Swivel



Part Number	Product Number	SAP Number									
			Hose ID	Thread Size (A)	Hex 1 Wrench Size	Drop (D)	Drop (D)	Cut-Off (C)	Cut-Off (C)	Length (L)	Length (L)
			in.		mm	in.	mm	in.	mm	in.	mm
UC-BPFX90-0404	36120-0404	20242536	1/4	1/4-19	19	1.14	29.0	1.14	29.0	2.12	53.8
UC-BPFX90-0606	36120-0606	20242610	3/8	3/8-19	22	1.65	41.9	1.38	35.1	2.43	61.7
UC-BPFX90-0608	36120-0608	20242805	3/8	1/2-14	27	1.40	35.6	1.34	34.0	2.39	60.7
UC-BPFX90-0706	36120-0706	20979902	13/32	3/8-19	22	1.65	41.9	1.38	35.1	2.43	61.7
UC-BPFX90-0708	36120-0708	20979903	13/32	1/2-14	27	1.40	35.6	1.34	34.0	2.39	60.7
UC-BPFX90-0808	36120-0808	20242556	1/2	1/2-14	27	1.61	40.9	1.42	36.1	2.67	67.7
UC-BPFX90-1212 <sup>c</sup>	36120-1212	20242546	3/4	3/4-14	32	2.09	53.1	1.93	49.0	3.48	88.5
UC-BPFX90-1616 <sup>c</sup>	36120-1616	20242515	1	1-11	38	2.72	69.1	2.95	74.9	4.73	120.0
UC-BPFX90-2020 <sup>T</sup>	36120-2020	20242374	1 1/4	1 1/4-11	50	3.27	83.1	3.23	82.0	5.28	134.1

C=Crimp Nut T=Thrust-Wire Nut (See Fitting Identification in Appendix for more information.)

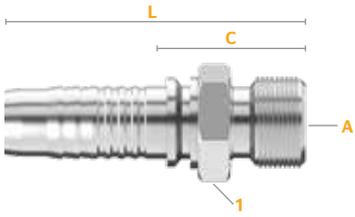


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**Section 5**  
UC Fittings

**FITTINGS**

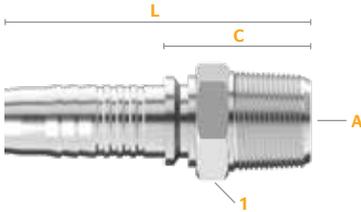




## BSPP (British Standard Pipe Parallel)

Male

Part Number	Product Number	SAP Number							
			Hose ID	Thread Size (A)	Hex 1 Wrench Size	Cut-Off (C)		Length (L)	
			in.		mm	in.	mm	in.	mm
UC-BPM-0404	36130-0404	20242484	1/4	1/4-19	19	1.03	26.2	2.01	51.1
UC-BPM-0606	36130-0606	20242581	3/8	3/8-19	22	1.10	28.0	2.15	54.6
UC-BPM-0608	36130-0608	20242464	3/8	1/2-14	27	1.24	31.5	2.29	58.1
UC-BPM-0706	36130-0706	20979904	13/32	3/8-19	22	1.10	28.0	2.15	54.6
UC-BPM-0708	36130-0708	20979905	13/32	1/2-14	27	1.24	31.5	2.29	58.1
UC-BPM-0806	36130-0806	20242809	1/2	3/8-19	22	1.12	28.5	2.37	60.2
UC-BPM-0808	36130-0808	20242463	1/2	1/2-14	27	1.26	32.0	2.51	63.7
UC-BPM-1212	36130-1212	20242407	3/4	3/4-14	32	1.45	36.7	3.00	76.1
UC-BPM-1616	36130-1616	20242807	1	1-11	41	1.69	43.0	3.47	88.1
UC-BPM-2020	36130-2020	20242808	1 1/4	1 1/4-11	50	1.89	48.0	3.94	100.0



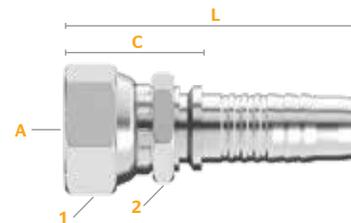
## BSPT (British Standard Pipe Tapered)

Male

Part Number	Product Number	SAP Number							
			Hose ID	Thread Size (A)	Hex 1 Wrench Size	Cut-Off (C)		Length (L)	
			in.		mm	in.	mm	in.	mm
UC-BTM-0404	36170-0404	20242611	1/4	1/4-19	17	1.06	27.0	2.04	51.9
UC-BTM-0406	36170-0406	20923070	1/4	3/8-19	19	1.09	27.7	2.07	52.6
UC-BTM-0606	36170-0606	20242612	3/8	3/8-19	19	1.10	27.9	2.15	54.6
UC-BTM-0608	36170-0608	20923071	3/8	1/2-14	22	1.28	32.6	2.33	59.3
UC-BTM-0808	36170-0808	20242507	1/2	1/2-14	22	1.31	33.1	2.55	64.8
UC-BTM-1212	36170-1212	20242409	3/4	3/4-14	27	1.36	34.6	2.92	74.1
UC-BTM-1616	36170-1616	20242408	1	1-11	36	1.73	43.9	3.51	89.0

## BSP Flat Seat (British Standard Pipe)

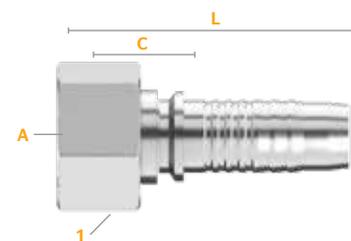
Female / Swivel



Part Number	Product Number	SAP Number							
			Hose ID	Thread Size (A)	Hex 1 Wrench Size	Cut-Off (C)		Length (L)	
			in.		in.	in.	mm	in.	mm
UC-BFFX-0606	36100-0606	20242800	3/8	3/8-19	22	0.75	19.0	1.80	45.6
UC-BFFX-0608	36100-0608	20242799	3/8	1/2-14	27	0.80	20.2	1.84	46.8
UC-BFFX-0808	36100-0808	20242798	1/2	1/2-14	27	0.82	20.9	2.07	52.5
UC-BFFX-0812	36100-0812	20242285	1/2	3/4-14	32	0.97	24.5	2.21	56.2

## DIN 24° Light

Female / Swivel



Part Number	Product Number	SAP Number							
			Hose ID	Thread Size (A)	Hex 1 Wrench Size	Cut-Off (C)		Length (L)	
			in.		mm	in.	mm	in.	mm
UC-DLFX-0412 <sup>T</sup>	36240-0412	20242540	1/4	12x1.5	14	1.07	27.2	2.05	52.0
UC-DLFX-0414	36240-0414	20242594	1/4	14x1.5	17	1.02	25.9	2.00	50.8
UC-DLFX-0416	36240-0416	20242471	1/4	16x1.5	19	1.08	27.4	2.06	52.2
UC-DLFX-0616	36240-0616	20242658	3/8	16x1.5	19	1.21	30.7	2.26	57.5
UC-DLFX-0618	36240-0618	20242641	3/8	18x1.5	22	1.08	27.5	2.13	54.2
UC-DLFX-0716	36240-0716	20979907	13/32	16x1.5	19	1.21	30.7	2.26	57.5
UC-DLFX-0718	36240-0718	20979908	13/32	18x1.5	22	1.08	27.5	2.13	54.2
UC-DLFX-0822	36240-0822	20242586	1/2	22x1.5	27	1.21	30.7	2.46	62.4
UC-DLFX-1230	36240-1230	20242501	3/4	30x2.0	36	1.42	36.0	2.97	75.4
UC-DLFX-1636	36240-1636	20242453	1	36x2.0	41	1.49	37.9	3.27	83.0
UC-DLFX-2045	36240-2045	20242539	1 1/4	45x2.0	50	1.74	44.1	3.78	96.1
UC-DLFX-3252	36240-3252	20588739	2	52x2.0	60	1.46	37.0	4.29	109.0

T=Thrust-Wire Nut (See Fitting Identification in Appendix for more information.)

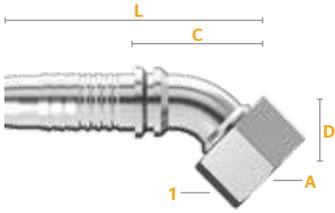


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**Section 5**  
UC Fittings

**FITTINGS**



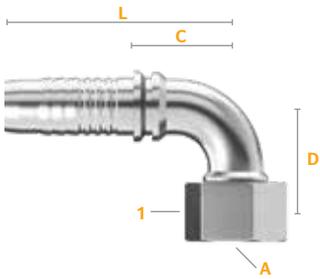


## DIN 24° Light

Female / 45° Elbow / Swivel

Part Number	Product Number	SAP Number	Hose ID		Hex 1 Wrench Size		Drop (D)		Cut-Off (C)		Length (L)	
			in.	mm	in.	mm	in.	mm	in.	mm		
UC-DLFX45-0414 <sup>T</sup>	36245-0414	20242385	1/4	14x1.5	17	0.69	17.5	1.69	42.9	2.67	67.8	
UC-DLFX45-0416	36245-0416	20242386	1/4	16x1.5	19	0.79	20.1	1.65	41.9	2.63	66.8	
UC-DLFX45-0618	36245-0618	20242387	3/8	18x1.5	22	0.77	19.6	1.85	47.0	2.90	73.6	
UC-DLFX45-0822	36245-0822	20242329	1/2	22x1.5	27	0.83	21.1	2.17	55.1	3.15	79.9	
UC-DLFX45-1230	36245-1230	20242330	3/4	30x2.0	36	1.26	32.0	2.72	69.1	4.27	108.5	
UC-DLFX45-1636	36245-1636	20242328	1	36x2.0	41	1.26	32.0	3.58	90.9	5.36	136.0	
UC-DLFX45-2045	36245-2045	20884595	1 1/4	45x2.0	50	3.50	88.9	3.54	88.9	5.59	88.9	

T=Thrust-Wire Nut (See Fitting Identification in Appendix for more information.)



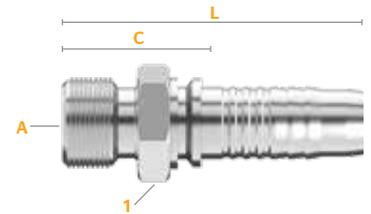
## DIN 24° Light

Female / 90° Elbow / Swivel

Part Number	Product Number	SAP Number	Hose ID		Hex 1 Wrench Size		Drop (D)		Cut-Off (C)		Length (L)	
			in.	mm	in.	mm	in.	mm	in.	mm		
UC-DLFX90-0412	36250-0412	20242390	1/4	12x1.5	14	1.02	25.9	1.14	29.0	2.12	53.8	
UC-DLFX90-0414	36250-0414	20242425	1/4	14x1.5	17	1.28	32.5	1.10	27.9	2.08	52.8	
UC-DLFX90-0416	36250-0416	20242391	1/4	16x1.5	19	1.28	32.5	1.10	27.9	2.08	52.8	
UC-DLFX90-0618	36250-0618	20242488	3/8	18x1.5	22	1.54	39.1	1.30	33.0	2.35	59.7	
UC-DLFX90-0822	36250-0822	20242389	1/2	22x1.5	27	1.59	40.4	1.57	39.9	2.82	71.6	
UC-DLFX90-1230	36250-1230	20242332	3/4	30x2.0	36	2.32	58.9	2.05	52.1	3.60	91.5	
UC-DLFX90-1636	36250-1636	20242331	1	36x2.0	41	2.68	68.1	3.07	78.0	4.85	123.1	
UC-DLFX90-2045	36250-2045	20242388	1 1/4	45x2.0	50	3.50	88.9	3.54	89.9	5.59	141.9	

## DIN 24° Light

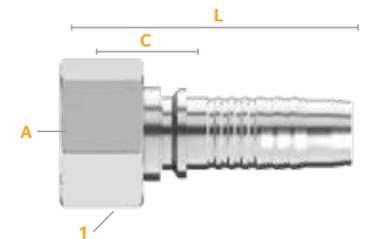
Male



Part Number	Product Number	SAP Number							
			Hose ID	Thread Size (A)	Hex 1 Wrench Size	Cut-Off (C)		Length (L)	
			in.		mm	in.	mm	in.	mm
UC-DLM-0412	36255-0412	20242334	1/4	12x1.5	14	0.84	21.4	1.82	46.3
UC-DLM-0414	36255-0414	20242393	1/4	14x1.5	14	0.84	21.4	1.82	46.3
UC-DLM-0416	36255-0416	20242335	1/4	16x1.5	17	0.92	23.4	1.90	48.3
UC-DLM-0616	36255-0616	20242426	3/8	16x1.5	17	0.93	23.6	1.98	50.2
UC-DLM-0618	36255-0618	20242513	3/8	18x1.5	19	0.96	24.4	2.01	51.1
UC-DLM-0716	36255-0716	20979909	13/32	16x1.5	17	0.93	23.6	1.98	50.2
UC-DLM-0822	36255-0822	20242392	1/2	22x1.5	22	1.02	26.0	2.27	57.6
UC-DLM-1230	36255-1230	20242336	3/4	30x2.0	32	1.24	31.5	2.79	70.9
UC-DLM-1636	36255-1636	20242333	1	36x2.0	36	1.34	34.1	3.12	79.1

## DIN 24° Heavy

Female / Swivel



Part Number	Product Number	SAP Number							
			Hose ID	Thread Size (A)	Hex 1 Wrench Size	Cut-Off (C)		Length (L)	
			in.		mm	in.	mm	in.	mm
UC-DHFX-0416	36210-0416	20242538	1/4	16x1.5	19	1.20	30.5	2.18	55.4
UC-DHFX-0418	36210-0418	20242529	1/4	18x1.5	22	1.21	30.8	2.19	55.7
UC-DHFX-0620	36210-0620	20242624	3/8	20x1.5	24	1.21	30.8	2.26	57.4
UC-DHFX-0622	36210-0622	20242562	3/8	22x1.5	27	1.42	36.2	2.47	62.8
UC-DHFX-0722	36210-0722	20979906	13/32	22x1.5	27	1.42	36.2	2.47	62.8
UC-DHFX-0824	36210-0824	20242561	1/2	24x1.5	30	1.44	36.5	2.68	68.2
UC-DHFX-1230 <sup>T</sup>	36210-1230	20242319	3/4	30x2.0	36	1.62	41.0	3.17	80.5
UC-DHFX-1236	36210-1236	20242530	3/4	36x2.0	46	1.89	47.9	3.44	87.4
UC-DHFX-1236S	36210-1236S	20608762	3/4	36x2.0	46	1.89	47.9	3.44	87.4
UC-DHFX-1642	36210-1642	20242500	1	42x2.0	50	1.88	47.9	3.66	92.9

S=Stainless Steel T=Thrust-Wire Nut (See Fitting Identification in Appendix for more information.)

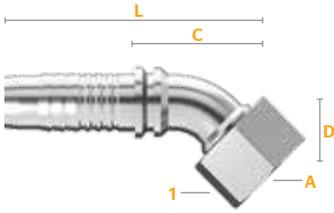


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**Section 5**  
UC Fittings

**FITTINGS**

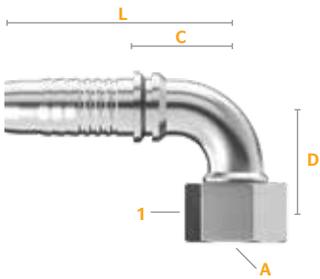




## DIN 24° Heavy

Female / 45° Elbow / Swivel

Part Number	Product Number	SAP Number									
			Hose ID	Thread Size (A)	Hex 1 Wrench Size	Drop (D)		Cut-Off (C)		Length (L)	
			in.		mm	in.	mm	in.	mm	in.	mm
UC-DHFX45-0418	36215-0418	20242313	1/4	18x1.5	22	0.75	19.1	1.69	42.9	2.67	67.8
UC-DHFX45-0620	36215-0620	20242315	3/8	20x1.5	24	0.79	20.1	2.01	51.1	3.06	77.7
UC-DHFX45-0622	36215-0622	20242316	3/8	22x1.5	27	0.83	21.1	2.09	53.1	3.14	79.7
UC-DHFX45-0824	36215-0824	20242312	1/2	24x1.5	30	0.85	21.6	2.20	55.9	3.45	87.6
UC-DHFX45-1236	36215-1236	20242314	3/4	36x2.0	46	1.30	33.0	2.72	69.1	4.27	108.5
UC-DHFX45-1642	36215-1642	20242310	1	42x2.0	50	1.59	40.4	4.33	110.0	6.11	155.1



## DIN 24° Heavy

Female / 90° Elbow / Swivel

Part Number	Product Number	SAP Number									
			Hose ID	Thread Size (A)	Hex 1 Wrench Size	Drop (D)		Cut-Off (C)		Length (L)	
			in.		mm	in.	mm	in.	mm	in.	mm
UC-DHFX90-0418	36220-0418	20242421	1/4	18x1.5	22	1.34	34.0	1.06	26.9	2.04	51.8
UC-DHFX90-0620	36220-0620	20242563	3/8	20x1.5	24	1.52	38.6	1.34	34.0	2.39	60.7
UC-DHFX90-0622	36220-0622	20242469	3/8	22x1.5	27	1.59	40.4	1.34	34.0	2.39	60.7
UC-DHFX90-0824	36220-0824	20242468	1/2	24x1.5	30	1.63	41.4	1.57	39.9	2.82	71.6
UC-DHFX90-1236	36220-1236	20242317	3/4	36x2.0	46	2.34	59.4	2.01	51.1	3.56	90.5
UC-DHFX90-1236S	36220-1236S	20608763	3/4	36x2.0	46	2.34	59.4	2.01	51.1	3.56	90.5
UC-DHFX90-1642	36220-1642	20242420	1	42x2.0	50	3.11	79.0	2.99	75.9	4.77	121.0

S=Stainless Steel (See Fitting Identification in Appendix for more information.)

### FITTINGS



### Section 5

UC Fittings

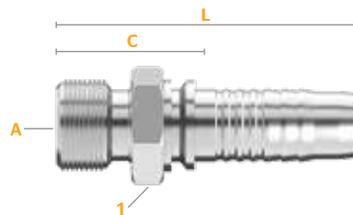
#### COMPATIBLE HOSE:

SR1SN	SR5	HR6	SFS	ACP3
SR2SN	DR5	HR4	SCP3	BOP
SR3	SR6	SR14A		

For a detailed list, please refer to your Crimp Specifications Manual.

## DIN 24° Heavy

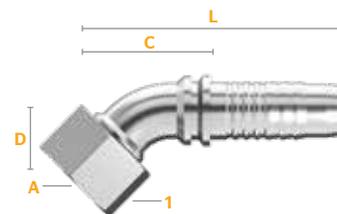
Male



Part Number	Product Number	SAP Number							
			Hose ID	Thread Size (A)	Hex 1 Wrench Size	Cut-Off (C)		Length (L)	
			in.		mm	in.	mm	in.	mm
UC-DHM-0416	36225-0416	20242323	1/4	16x1.5	17	0.95	24.2	1.93	49.1
UC-DHM-0418	36225-0418	20242324	1/4	18x1.5	19	0.99	25.2	1.97	50.1
UC-DHM-0620	36225-0620	20242424	3/8	20x1.5	22	1.00	25.4	2.05	52.1
UC-DHM-0622	36225-0622	20242470	3/8	22x1.5	22	1.08	27.4	2.13	54.1
UC-DHM-0824	36225-0824	20242322	1/2	24x1.5	24	1.14	29.0	2.39	60.7
UC-DHM-1230	36225-1230	20242325	3/4	30x2.0	32	1.33	33.7	2.88	73.1
UC-DHM-1236	36225-1236	20242326	3/4	36x2.0	36	1.48	37.7	3.04	77.1
UC-DHM-1642	36225-1642	20242321	1	42x2.0	46	1.66	42.1	3.43	87.2

## DIN 60°

Female / 45° Elbow / Swivel



Part Number	Product Number	SAP Number									
			Hose ID	Thread Size (A)	Hex 1 Wrench Size	Drop (D)	Cut-Off (C)		Length (L)		
			in.		mm	in.	mm	in.	mm	in.	mm
UC-DNFX45-0414	36275-0414	20242338	1/4	14x1.5	17	0.63	16.0	1.38	35.1	2.36	59.9
UC-DNFX45-0416	36275-0416	20242339	1/4	16x1.5	19	0.67	17.0	1.42	36.1	2.40	61.0
UC-DNFX45-0618	36275-0618	20242340	3/8	18x1.5	22	0.77	19.6	1.69	42.9	2.74	69.6
UC-DNFX45-0822	36275-0822	20242337	1/2	22x1.5	27	0.79	20.1	2.17	55.1	3.42	86.8

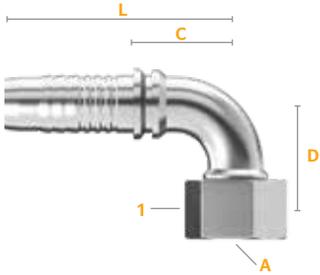


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**Section 5**  
UC Fittings

**FITTINGS**



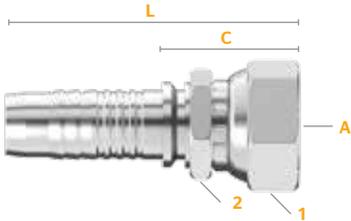


## DIN 60°

Female / 90° Elbow / Swivel

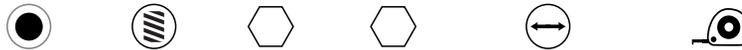


Part Number	Product Number	SAP Number	Hose ID	Thread Size (A)	Hex 1 Wrench Size	Drop (D)		Cut-Off (C)		Length (L)	
			in.		mm	in.	mm	in.	mm	in.	mm
UC-DNFX90-0414	36280-0414	20242428	1/4	14x1.5	17	1.28	32.5	1.18	30.0	2.16	54.9
UC-DNFX90-0416	36280-0416	20242341	1/4	16x1.5	19	1.28	32.5	1.10	27.9	2.08	52.8
UC-DNFX90-0616	36280-0616	20242342	3/8	16x1.5	19	1.26	32.0	1.18	30.0	2.23	56.6
UC-DNFX90-0618	36280-0618	20242472	3/8	18x1.5	22	1.46	37.1	1.30	33.0	2.35	59.7
UC-DNFX90-0822	36280-0822	20242427	1/2	22x1.5	27	1.57	39.9	1.57	39.9	2.82	71.6



## Komatsu® 30° Flare with Metric Threads

Female / Swivel



Part Number	Product Number	SAP Number	Hose ID	Thread Size (A)	Hex 1 Wrench Size	Hex 2 Wrench Size	Cut-Off (C)		Length (L)	
			in.		mm	mm	in.	mm	in.	mm
UC-KMFX-0414	36545-0414	20242590	1/4	14x1.5	19	17	1.22	30.9	2.20	55.8
UC-KMFX-0618	36545-0618	20242636	3/8	18x1.5	22	19	1.26	32.1	2.31	58.7
UC-KMFX-0822	36545-0822	20242573	1/2	22x1.5	27	22	1.38	35.2	2.63	66.8
UC-KMFX-1024	36545-1024	20283390	5/8	24x1.5	32	30	1.66	42.2	3.02	76.6
UC-KMFX-1230	36545-1230	20242541	3/4	30x1.5	36	30	1.84	46.7	3.39	86.1
UC-KMFX-1633	36545-1633	20242564	1	33x1.5	41	36	2.24	56.9	4.02	102.0
UC-KMFX-2036	36545-2036	20242394	1 1/4	36x1.5	46	46	2.50	63.6	4.55	115.5

### FITTINGS



### Section 5

UC Fittings

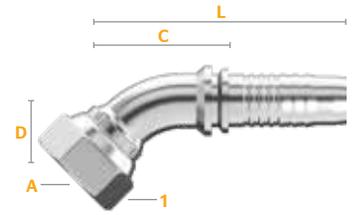
#### COMPATIBLE HOSE:

SR1SN	SR5	HR6	SFS	ACP3
SR2SN	DR5	HR4	SCP3	BOP
SR3	SR6	SR14A		

For a detailed list, please refer to your Crimp Specifications Manual.

## Komatsu® 30° Flare with Metric Threads

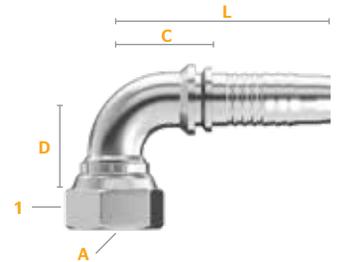
Female / 45° Elbow / Swivel



Part Number	Product Number	SAP Number									
			Hose ID	Thread Size (A)	Hex 1 Wrench Size	Drop (D)	Cut-Off (C)	Length (L)	in.	mm	
UC-KMFX45-0414	36548-0414	20318233	in.	14x1.5	mm	in.	mm	in.	mm	in.	mm
UC-KMFX45-0618	36548-0618	20318234	3/8	18x1.5	22	0.71	18.0	1.73	43.9	2.78	70.6
UC-KMFX45-0822	36548-0822	20318235	1/2	22x1.5	27	1.16	29.5	2.20	55.9	3.45	87.6

## Komatsu® 30° Flare with Metric Threads

Female / 90° Elbow / Swivel



Part Number	Product Number	SAP Number									
			Hose ID	Thread Size (A)	Hex 1 Wrench Size	Drop (D)	Cut-Off (C)	Length (L)	in.	mm	
UC-KMFX90-0414	36550-0414	20318236	in.	14x1.5	mm	in.	mm	in.	mm	in.	mm
UC-KMFX90-0618	36550-0618	20318326	3/8	18x1.5	22	1.40	35.6	1.42	36.0	2.47	62.7
UC-KMFX90-0822	36550-0822	20318327	1/2	22x1.5	27	2.09	53.1	1.74	37.0	2.98	75.8

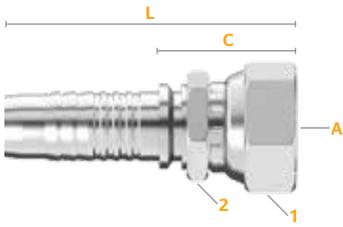


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**Section 5**  
UC Fittings

**FITTINGS**



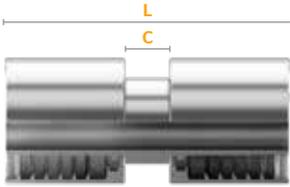


## JIS 30° (Parallel Pipe Threads)

Female / Swivel

Part Number	Product Number	SAP Number								
			Hose ID	Thread Size (A)	Hex 1 Wrench Size	Hex 2 Wrench Size	Cut-Off (C)		Length (L)	
			in.		mm	mm	in.	mm	in.	mm
UC-JSFX-0404	36520-0404	20242644	1/4	1/4-19	19	17	1.22	30.9	2.20	55.8
UC-JSFX-0606	36520-0606	20242699	3/8	3/8-19	22	19	1.26	32.1	2.31	58.7
UC-JSFX-0808	36520-0808	20242606	1/2	1/2-14	27	22	1.39	35.2	2.63	66.9
UC-JSFX-1212	36520-1212	20242543	3/4	3/4-14	36	30	1.58	40.2	3.14	79.6
UC-JSFX-1616	36520-1616	20242502	1	1-11	41	36	1.87	47.5	3.65	92.6
UC-JSFX-2020 <sup>T</sup>	36520-2020	20242436	1 1/4	1 1/4-11	50	46	2.16	54.9	4.21	106.9

T=Thrust-Wire Nut (See Fitting Identification in Appendix for more information.)



## Hose Joiner

Part Number	Product Number	SAP Number					
			Hose ID	in.	mm	in.	mm
UC-HJ-0404	36840-0404	20960631	1/4	0.63	15.9	2.59	65.7
UC-HJ-0505	36840-0505	20960632	5/16	0.63	15.90	2.59	65.7
UC-HJ-0606	36840-0606	20960633	3/8	0.63	15.90	2.72	69.2
UC-HJ-0808	36840-0808	20960634	1/2	0.75	19.10	3.24	82.4
UC-HJ-1010	36840-1010	20960635	5/8	0.75	19.10	3.46	88.0
UC-HJ-1212	36840-1212	20960636	3/4	0.75	19.10	3.86	98.0
UC-HJ-1616	36840-1616	20960637	1	1.00	25.40	4.55	115.6
UC-HJ-2020	36840-2020	20960638	1 1/4	1.50	38.10	5.59	142.0
UC-HJ-2424	36840-2424	20960630	1 1/2	1.50	38.10	6.16	156.4
UC-HJ-3232	36840-3232	20960640	2	1.50	38.10	7.17	182.1

## FITTINGS



## Section 5

UC Fittings

### COMPATIBLE HOSE:

SR1SN	SR5	HR6	SFS	ACP3
SR2SN	DR5	HR4	SCP3	BOP
SR3	SR6	SR14A		

For a detailed list, please refer to your Crimp Specifications Manual.

# SECTION 6 - FG FITTINGS

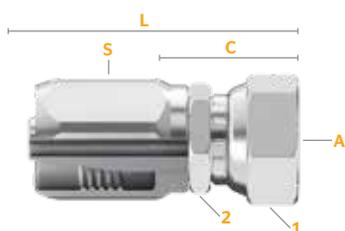
This section lists all fittings compatible with the following hose:

Hose	Description	Compatible Dash Size
SR5	SAE 100R5	All hose dash sizes
DR5	SAE 100R5 / SAE J1942	All hose dash sizes

## How to Use the Fittings Table

The fittings in this section will follow a similar table structure to the one seen on this page.

Fitting dimensions and attributes are explained below.



## Fitting Name

Fitting Description

Part Number	Product Number	SAP Number									
			Hose ID	Thread Size (A)	Hex 1 Wrench Size	Hex 2 Wrench Size	(S) Socket Wrench Size	Cut-Off (C)	Length (L)		
			in.		in.	in.	in.	in.	mm	in.	mm
FG-JCFX-0404	18400-0404	20245798	3/16	7/16-20	9/16	9/16	5/8	1.19	30.2	1.94	49.2
FG-JCFX-0505	18400-0505	20245799	1/4	1/2-20	5/8	5/8	11/16	1.30	32.9	2.08	52.8
FG-JCFX-0606	18400-0606	20245800	5/16	9/16-18	11/16	11/16	13/16	1.41	35.7	2.31	58.7

### Fitting Dimensions and Attributes

- Part Number** See Hydraulic Fittings Nomenclature on page 128 for a breakdown of part number attributes
- Hose ID** The compatible Hose ID
- Tube ID** The compatible Tube ID
- Thread Size** The thread size or sizes available for a particular fitting dash size (indicated by **A** in the fitting image)
- Hex Size** The wrench size for one or both nuts on the fitting (indicated by **1** or **2** in the fitting image)
- Drop** The length of the elbow (indicated by **D** in the fitting image)
- Cut-Off** The amount of hose to be cut for a correct assembly length (indicated by **C** in the fitting image)
- Length** The overall length of the fitting

Choose fittings carefully, considering the working pressure of both the hose and fitting. The maximum working pressure of the hose assembly is the lesser of the rated working pressure of the hose and the fitting. See page 333 for the Fittings Working Pressure Guide.



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**Section 6**  
FG Fittings

**FITTINGS**



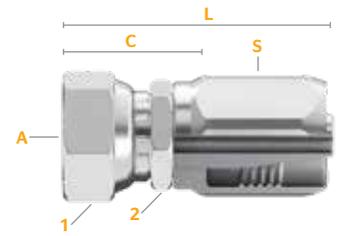
# FG Fittings Overview

A complete overview of all FG fittings found in this section.

<p><b>JIC 37° Flare (SAE J514)</b> Female Swivel  FG-JCFX P. 285</p>	<p><b>JIC 37° Flare (SAE J514)</b> Female 45° Elbow Swivel  FG-JCFX45 P. 285</p>	<p><b>JIC 37° Flare (SAE J514)</b> Female 90° Elbow Swivel  FG-JCFX90 P. 286</p>	<p><b>JIC 37° Flare (SAE J514)</b> Male  FG-JCM P. 286</p>
<p><b>SAE 45° J512 Flare</b> Female Swivel  FG-SFFX P. 287</p>	<p><b>SAE 45° J512 Flare</b> Male  FG-SFM P. 287</p>	<p><b>SAE 45° Inverted Flare</b> Male Swivel  FG-SIMX P. 288</p>	<p><b>NPTF</b> Male  FG-NPM P. 288</p>
<p><b>O-Ring Boss Straight Thread (SAE J514)</b> Male  FG-OBM P. 289</p>			

## JIC 37° Flare (SAE J514)

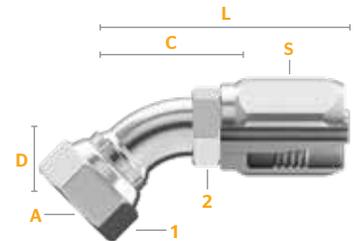
Female / Swivel



Part Number	Product Number	SAP Number									
			Hose ID	Thread Size (A)	Hex 1 Wrench Size	Hex 2 Wrench Size	(S) Socket Wrench Size	Cut-Off (C)	Length (L)	in.	mm
FG-JCFX-0404	18400-0404	20245798	3/16	7/16-20	9/16	9/16	5/8	1.19	30.2	1.94	49.2
FG-JCFX-0505	18400-0505	20245799	1/4	1/2-20	5/8	5/8	11/16	1.30	32.9	2.08	52.8
FG-JCFX-0606	18400-0606	20245800	5/16	9/16-18	11/16	11/16	13/16	1.41	35.7	2.31	58.7
FG-JCFX-0808	18400-0808	20245801	13/32	3/4-16	7/8	7/8	15/16	1.58	40.1	2.68	68.1
FG-JCFX-1010	18400-1010	20245792	1/2	7/8-14	1	1	1 1/8	1.67	42.5	3.06	77.8
FG-JCFX-1212	18400-1212	20245793	5/8	1 1/8-12	1 1/4	1 1/4	1 1/4	1.92	48.8	3.50	88.9
FG-JCFX-1616	18400-1616	20245794	7/8	1 1/8-12	1 1/2	1 1/2	1 1/8	1.92	48.8	3.19	81.0
FG-JCFX-2020	18400-2020	20245795	1 1/8	1 3/8-12	2	2	1 3/4	2.50	63.5	3.38	85.7
FG-JCFX-2424	18400-2424	20245796	1 3/8	1 7/8-12	2 1/4	2 1/4	2	2.23	56.8	3.66	92.9
FG-JCFX-3232	18400-3232	20245797	1 7/8	2 1/2-12	2 3/8	2 3/8	2 1/2	2.58	65.5	4.44	112.7

## JIC 37° Flare (SAE J514)

Female / 45° Elbow / Swivel



Part Number	Product Number	SAP Number											
			Hose ID	Thread Size (A)	Hex 1 Wrench Size	Hex 2 Wrench Size	(S) Socket Wrench Size	Drop (D)	Cut-Off (C)	Length (L)	in.	mm	
FG-JCFX45-0404	18420-0404	20245820	3/16	7/16-20	9/16	9/16	5/8	0.33	8.3	1.11	28.2	1.84	46.8
FG-JCFX45-0505	18420-0505	20245821	1/4	1/2-20	9/16	5/8	11/16	0.36	9.1	1.28	32.5	1.06	27.0
FG-JCFX45-0606	18420-0606	20245822	5/16	9/16-18	9/16	11/16	13/16	0.39	9.9	1.33	33.7	2.23	56.8
FG-JCFX45-0808	18420-0808	20245823	13/32	3/4-16	11/16	7/8	15/16	0.55	13.9	1.84	46.8	2.98	75.8
FG-JCFX45-1010	18420-1010	20245817	1/2	7/8-14	7/8	1	1 1/8	0.62	15.9	1.95	49.6	3.23	82.2
FG-JCFX45-1212	18420-1212	20245818	5/8	1 1/8-12	1 1/8	1 1/4	1 1/4	0.77	19.5	2.22	56.4	3.78	96.0
FG-JCFX45-1616	18420-1616	20245819	7/8	1 1/8-12	1 3/8	1 1/2	1 1/8	0.89	22.6	2.23	56.8	3.56	90.5

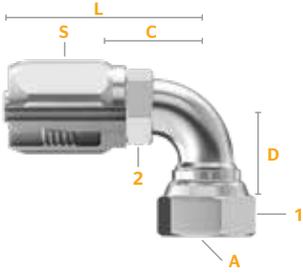


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**Section 6**  
FG Fittings

**FITTINGS**





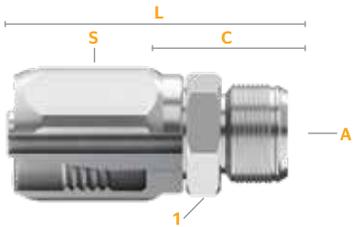
## JIC 37° Flare (SAE J514)

Female / 90° Elbow / Swivel



Part Number	Product Number	SAP Number	Hose ID	Thread Size (A)	Hex 1	Hex 2	(S) Socket	Elbow Type*	Drop (D)		Cut-Off (C)		Length (L)	
					Wrench Size	Wrench Size	Wrench Size		in.	mm	in.	mm	in.	mm
FG-JCFX90-0404	18425-0404	20245827	3/16	7/16-20	9/16	9/16	5/8		0.69	17.5	1.00	25.4	1.75	44.5
FG-JCFX90L-0404	18440-0404	20245834	3/16	7/16-20	9/16	9/16	5/8	LT	1.80	45.6	1.00	25.4	1.75	44.5
FG-JCFX90-0505	18425-0505	20245828	1/4	1/2-20	9/16	5/8	11/16		0.77	19.5	1.19	30.2	1.97	50.0
FG-JCFX90L-0505	18440-0505	20245835	1/4	1/2-20	9/16	5/8	11/16	LT	1.78	45.2	1.19	30.2	1.97	50.0
FG-JCFX90-0606	18425-0606	20245829	5/16	9/16-18	11/16	11/16	13/16		0.84	21.4	1.23	31.4	2.12	54.0
FG-JCFX90L-0606	18440-0606	20245836	5/16	9/16-18	11/16	11/16	13/16	LT	2.19	55.6	1.23	31.4	2.12	54.0
FG-JCFX90-0808	18425-0808	20245830	13/32	3/4-16	7/8	7/8	15/16		1.09	27.8	1.61	40.9	2.75	69.9
FG-JCFX90L-0808	18440-0808	20245837	13/32	3/4-16	7/8	7/8	15/16	LT	2.44	61.9	1.61	40.9	2.75	69.9
FG-JCFX90-1010	18425-1010	20245824	1/2	7/8-14	1 1/8	1	1 1/8		1.23	31.4	1.66	42.1	2.94	74.6
FG-JCFX90L-1010	18440-1010	20245831	1/2	7/8-14	1 1/8	1	1 1/8	LT	2.56	65.1	1.66	42.1	2.94	74.6
FG-JCFX90-1212	18425-1212	20245825	5/8	1 1/8-12	1 1/4	1 1/4	1 1/4		1.81	46.0	2.17	55.2	3.75	95.3
FG-JCFX90L-1212	18440-1212	20245832	5/8	1 1/8-12	1 1/4	1 1/4	1 1/4	LT	3.73	94.9	2.17	55.2	3.75	95.3
FG-JCFX90-1616	18425-1616	20245826	7/8	1 1/8-12	1 1/2	1 1/2	1 1/8		2.14	54.4	2.28	57.9	3.55	90.1
FG-JCFX90L-1616	18440-1616	20245833	7/8	1 1/8-12	1 1/2	1 1/2	1 1/8	LT	4.33	109.9	2.28	57.9	3.55	90.1

\*Elbow Type: LT=Long Tube



## JIC 37° Flare (SAE J514)

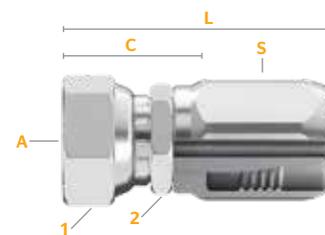
Male



Part Number	Product Number	SAP Number	Hose ID	Thread Size (A)	Hex 1	Socket (S)	Cut-Off (C)	Length (L)		
					Wrench Size	Wrench Size		in.	mm	
FG-JCM-0404	18450-0404	20245775	3/16	7/16-20	1/2	5/8	1.09	27.8	1.84	46.8
FG-JCM-0505	18450-0505	20245776	1/4	1/2-20	9/16	11/16	1.17	29.8	1.95	49.6
FG-JCM-0606	18450-0606	20245777	5/16	9/16-18	5/8	13/16	1.22	31.0	2.12	54.0
FG-JCM-0808	18450-0808	20245778	13/32	3/4-16	13/16	15/16	1.31	33.3	2.56	65.1
FG-JCM-1010	18450-1010	20245770	1/2	7/8-14	15/16	1 1/8	1.50	38.1	2.89	73.4
FG-JCM-1212	18450-1212	20245771	5/8	1 1/8-12	1 1/8	1 1/4	1.78	45.2	3.34	84.9
FG-JCM-1616	18450-1616	20245772	7/8	1 1/8-12	1 3/8	1 1/8	1.69	42.9	2.94	74.6
FG-JCM-2020	18450-2020	20245773	1 1/8	1 1/8-12	1 3/4	1 3/4	1.77	44.9	3.12	79.4
FG-JCM-2424	18450-2424	20245774	1 3/8	1 1/8-12	2	2	1.97	50.0	3.42	86.9

## SAE 45° J512 Flare

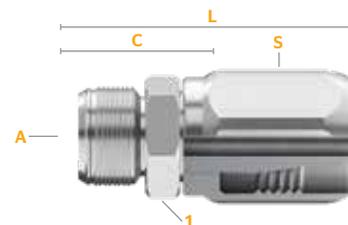
Female / Swivel



Part Number	Product Number	SAP Number									
			Hose ID	Thread Size (A)	Hex 1 Wrench Size	Hex 2 Wrench Size	(S) Socket Wrench Size	Cut-Off (C)	Length (L)		
			in.		in.	in.	in.	in.	mm	in.	mm
FG-SFFX-0404	18775-0404	20245814	3/16	7/16-20	9/16	9/16	5/8	1.19	30.2	1.94	49.2
FG-SFFX-0505	18775-0505	20245815	1/4	1/2-20	5/8	5/8	11/16	1.30	32.9	2.08	52.8
FG-SFFX-0606	18775-0606	20245816	5/16	5/8-18	3/4	3/4	13/16	1.44	36.5	2.34	59.5
FG-SFFX-0808	18775-0808	20291192	13/32	3/4-16	7/8	7/8	7/8	1.60	40.6	2.70	68.6
FG-SFFX-1010	18775-1010	20245812	1/2	7/8-14	1	1	1 1/2	1.67	42.5	3.06	77.8
FG-SFFX-1212	18775-1212	20245813	5/8	1 1/8-14	1 1/4	1 1/4	1 1/4	1.92	48.8	3.50	88.9

## SAE 45° J512 Flare

Male



Part Number	Product Number	SAP Number								
			Hose ID	Thread Size (A)	Hex 1 Wrench Size	(S) Socket Wrench Size	Cut-Off (C)	Length (L)		
			in.		mm	in.	in.	mm	in.	mm
FG-SFM-0404	18785-0404	20245626	3/16	7/16-20	1/2	5/8	1.03	26.2	1.80	45.6
FG-SFM-0505	18785-0505	20245627	1/4	1/2-20	9/16	11/16	1.19	30.2	1.97	50.0
FG-SFM-0606	18785-0606	20245628	5/16	5/8-18	11/16	13/16	1.28	32.5	2.19	55.6
FG-SFM-0808	18785-0808	20245629	13/32	3/4-16	13/16	15/16	1.41	35.7	2.66	67.5
FG-SFM-1212	18785-1212	20245625	5/8	1 1/8-14	1 1/2	1 1/4	1.81	46.0	3.50	88.9

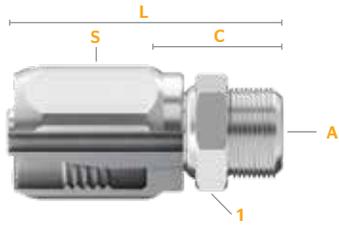


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**Section 6**  
FG Fittings

**FITTINGS**

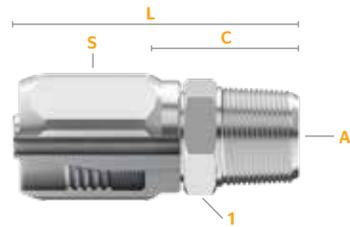




## SAE 45° Inverted Flare

Male / Swivel

Part Number	Product Number	SAP Number								
			Hose ID	Thread Size (A)	Hex 1 Wrench Size	(S) Socket Wrench Size	Cut-Off (C)		Length (L)	
			in.		mm	in.	in.	mm	in.	mm
FG-SIMX-0404	18800-0404	20245779	3/16	7/16-24	3/8	5/8	1.72	43.7	2.47	62.7
FG-SIMX-0505	18800-0505	20245780	1/4	1/2-20	7/16	11/16	1.84	46.8	2.62	66.7
FG-SIMX-0606	18800-0606	20245781	5/16	5/8-18	1/2	13/16	1.81	46.0	2.72	69.1
FG-SIMX-0808	18800-0808	20245782	13/32	3/4-18	5/8	15/16	1.98	50.4	3.12	79.4



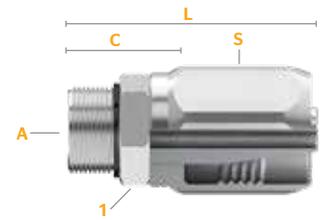
## NPTF

Male

Part Number	Product Number	SAP Number								
			Hose ID	Thread Size (A)	Hex 1 Wrench Size	(S) Socket Wrench Size	Cut-Off (C)		Length (L)	
			in.		mm	in.	in.	mm	in.	mm
FG-NPM-0402	18615-0402	20245804	3/16	1/8-27	9/16	5/8	0.92	23.4	1.67	42.5
FG-NPM-0404	18615-0404	20245805	3/16	1/4-18	9/16	5/8	1.11	28.2	1.86	47.2
FG-NPM-0504	18615-0504	20245806	1/4	1/4-18	9/16	11/16	1.19	30.2	1.97	50.0
FG-NPM-0604	18615-0604	20245807	5/16	1/4-18	9/16	13/16	1.23	31.4	2.17	55.2
FG-NPM-0606	18615-0606	20245808	5/16	3/8-18	11/16	13/16	1.27	32.2	2.20	56.0
FG-NPM-0806	18615-0806	20245809	13/32	3/8-18	11/16	15/16	1.33	33.7	2.48	63.1
FG-NPM-0808	18615-0808	20245811	13/32	1/2-14	7/8	15/16	1.56	39.7	2.72	69.1
FG-NPM-1008	18615-1008	20245810	1/2	1/2-14	7/8	1 1/8	1.59	40.5	2.86	72.6
FG-NPM-1012	18615-1012	20245802	1/2	3/4-14	1 1/8	1 1/8	1.66	42.1	2.91	73.8
FG-NPM-1212	18615-1212	20245803	5/8	3/4-14	1 1/8	1 1/4	1.67	42.5	3.20	81.4
FG-NPM-1612	18615-1612	20245842	7/8	3/4-14	1 3/8	1 7/8	1.53	38.9	2.80	71.0
FG-NPM-1616	18615-1616	20245841	7/8	1-11 1/2	1 3/8	1 7/8	1.72	43.7	2.98	75.8
FG-NPM-2020	18615-2020	20245838	1 1/8	1 1/4-11 1/2	1 3/4	1 3/4	1.83	46.4	3.19	81.0
FG-NPM-2424	18615-2424	20245840	1 3/8	1 1/2-11 1/2	2	2	1.92	48.8	3.36	85.3
FG-NPM-3232	18615-3232	20245839	1 7/8	2-11 1/2	2 1/2	2 1/2	2.06	52.4	3.91	99.2

## O-Ring Boss Straight Thread (SAE J514)

Male



Part Number	Product Number	SAP Number								
			Hose ID	Thread Size (A)	Hex 1 Wrench Size	(S) Socket Wrench Size	Cut-Off (C)	Length (L)	in.	mm
FG-OBM-0404	18670-0404	20245788	3/16	7/16-20	9/16	5/8	0.89	22.6	1.64	41.7
FG-OBM-0505	18670-0505	20245789	1/4	1/2-20	5/8	11/16	0.97	24.6	1.75	44.5
FG-OBM-0606	18670-0606	20245790	5/16	9/16-18	11/16	13/16	1.03	26.2	1.94	49.2
FG-OBM-0808	18670-0808	20245791	13/32	3/4-16	7/8	15/16	1.09	27.8	2.34	59.5
FG-OBM-1010	18670-1010	20245783	1/2	7/8-14	1	1 1/8	1.23	31.4	2.62	66.7
FG-OBM-1212	18670-1212	20245784	5/8	1 1/8-12	1 1/4	1 1/4	1.53	38.9	3.09	78.6
FG-OBM-1616	18670-1616	20245785	7/8	1 5/8-12	1 1/2	1 5/8	1.39	35.3	2.66	67.5
FG-OBM-2020	18670-2020	20245786	1 1/8	1 3/4-12	1 3/4	1 3/4	1.39	35.3	2.75	69.9
FG-OBM-2424	18670-2424	20245787	1 3/8	1 7/8-12	2 1/8	2	1.39	35.3	2.84	72.2



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**Section 6**  
FG Fittings

**FITTINGS**



# SECTION 7 - TP FITTINGS

This section lists all fittings compatible with the following hose:

Hose	Description	Compatible Dash Size	Hose	Description	Compatible Dash Size
SR7	SAE 100R7 / EN 855 R7	All hose dash sizes	SR8	SAE 100R8 / EN 855 R8	All hose dash sizes
TR7	SAE 100R7 (Twin-Line)	All hose dash sizes	TR8	SAE 100R8 (Twin-Line)	All hose dash sizes
NR7	SAE 100R7	All hose dash sizes	NR8	SAE 100R8	All hose dash sizes
BR7	SAE 100R7	All hose dash sizes	SR18	SAE 100R18	All hose dash sizes

## How to Use the Fittings Table

The fittings in this section will follow a similar table structure to the one seen on this page.

Fitting dimensions and attributes are explained below.

### Fitting Name

Fitting Description

Part Number	Product Number	SAP Number	Hose ID		Hex 1 Wrench Size		Hex 2 Wrench Size		Cut-Off (C)		Length (L)	
			in.	mm	in.	mm	in.	mm	in.	mm	in.	mm
T7-JCFX-0404	32400-0404	20244000	1/4	7/16-20	5/8	5/8	1.44	36.5	2.53	64.3	2.86	72.6
T8-JCFX-0808	34400-0808	20244006	1/2	3/4-16	15/16	7/8	1.62	41.3	3.16	80.2	3.29	83.7
T7-JCFX-1212	32400-1212	20243992	3/4	1 1/8-12	1 1/4	1 1/8	1.62	41.3	3.44	87.3	4.19	106.5

### Fitting Dimensions and Attributes

**Part Number** See Hydraulic Fittings Nomenclature on page 128 for a breakdown of part number attributes

**Hose ID** The compatible Hose ID

**Tube ID** The compatible Tube ID

**Thread Size** The thread size or sizes available for a particular fitting dash size (indicated by **A** in the fitting image)

**Hex Size** The wrench size for one or both nuts on the fitting (indicated by **1** or **2** in the fitting image)

**Drop** The length of the elbow (indicated by **D** in the fitting image)

**Cut-Off** The amount of hose to be cut for a correct assembly length (indicated by **C** in the fitting image)

**Length** The overall length of the fitting

**Skive Type** For applicable fittings, a skive type will be indicated as Skive, Non-Skive or Dual-Grip

Choose fittings carefully, considering the working pressure of both the hose and fitting. The maximum working pressure of the hose assembly is the lesser of the rated working pressure of the hose and the fitting. See page 333 for the Fittings Working Pressure Guide.

## FITTINGS



### Section 7 TP Fittings

#### COMPATIBLE HOSE:

SR7	NR7	SR8	NR8
TR7	BR7	TR8	SR18

For a detailed list, please refer to your Crimp Specifications Manual.

# TP Fittings Overview

A complete overview of all TP fittings found in this section.

<p><b>JIC 37° Flare (SAE J514)</b> Female Swivel</p>  <p>TP-JCFX P. 292</p>	<p><b>JIC 37° Flare (SAE J514)</b> Female 45° Elbow Swivel</p>  <p>TP-JCFX45 P. 293</p>	<p><b>JIC 37° Flare (SAE J514)</b> Female 90° Elbow Swivel</p>  <p>TP-JCFX90 P. 294</p>	<p><b>JIC 37° Flare (SAE J514)</b> Male</p>  <p>TP-JCM P. 295</p>
<p><b>SAE 45° J512 Flare</b> Female Swivel</p>  <p>TP-SFFX P. 296</p>	<p><b>SAE 45° J512 Flare</b> Female 90° Elbow Swivel</p>  <p>TP-SFFX90 P. 296</p>	<p><b>SAE 45° Inverted Flare</b> Male Swivel</p>  <p>TP-SIMX P. 297</p>	<p><b>SAE 45° Inverted Flare</b> Male 45° Elbow Swivel</p>  <p>TP-SIMX45 P. 297</p>
<p><b>SAE 45° Inverted Flare</b> Male 90° Elbow Swivel</p>  <p>TP-SIMX90 P. 298</p>	<p><b>NPTF</b> Female</p>  <p>TP-NPF P. 298</p>	<p><b>NPTF</b> Male</p>  <p>TP-NPM P. 299</p>	<p><b>NPTF</b> Male Swivel</p>  <p>TP-NPMX P. 300</p>
<p><b>NPSM</b> Female Swivel</p>  <p>TP-NSFX P. 300</p>	<p><b>SAE J514 Flareless Tube Fittings</b> Male</p>  <p>TP-FTM P. 301</p>	<p><b>Standpipe</b> 45° Elbow</p>  <p>TP-SP45 P. 301</p>	<p><b>O-Ring Face Seal (SAE J1453 ORS/ORFS)</b> Female Swivel</p>  <p>TP-OFFX P. 302</p>
<p><b>O-Ring Face Seal (SAE J1453 ORS/ORFS)</b> Female 45° Elbow Swivel</p>  <p>TP-OFFX45 P. 302</p>	<p><b>O-Ring Face Seal (SAE J1453 ORS/ORFS)</b> Female 90° Elbow Swivel</p>  <p>TP-OFFX90 P. 303</p>	<p><b>O-Ring Face Seal (SAE J1453 ORS/ORFS)</b> Male</p>  <p>TP-OFM P. 303</p>	<p><b>O-Ring Boss Straight Thread (SAE J514)</b> Male</p>  <p>TP-OBM P. 304</p>
<p><b>O-Ring Boss Straight Thread (SAE J514)</b> Male Swivel</p>  <p>TP-OBMX P. 304</p>	<p><b>JIS 30° (Parallel Pipe Threads)</b> Female Swivel</p>  <p>TP-JSFX P. 305</p>		

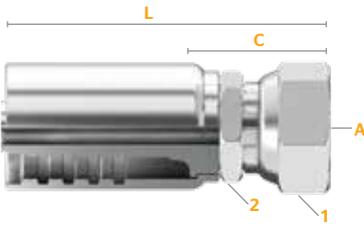


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## Section 7 TP Fittings

## FITTINGS





## JIC 37° Flare (SAE J514)

Female / Swivel

Part Number	Product Number	SAP Number								
			Hose ID	Thread Size (A)	Hex 1 Wrench Size	Hex 2 Wrench Size	Cut-Off (C)	Length (L)	in.	mm
T7-JCFX-0204	32400-0204	20243997	1/8	7/16-20	5/8	1/2	1.06	27.0	1.71	43.5
T7-JCFX-0303	32400-0303	20243995	3/16	3/8-24	9/16	9/16	1.31	33.3	2.21	56.2
T7-JCFX-0304	32400-0304	20243994	3/16	7/16-20	5/8	9/16	1.38	34.9	2.16	54.8
T8-JCFX-0304	34400-0304	20243993	3/16	7/16-20	5/8	9/16	1.38	34.9	2.16	54.8
T7-JCFX-0305	32400-0305	20243996	3/16	1/2-20	3/4	9/16	1.38	34.9	2.16	54.8
T8-JCFX-0305	34400-0305	20243999	3/16	1/2-20	3/4	9/16	1.38	34.9	2.16	54.8
T7-JCFX-0404	32400-0404	20244000	1/4	7/16-20	5/8	5/8	1.44	36.5	2.53	64.3
T7-JCFX-0404S	32400-0404S	20298359	1/4	7/16-20	5/8	5/8	1.44	36.5	2.53	64.3
T8-JCFX-0404	34400-0404	20243991	1/4	7/16-20	5/8	5/8	1.44	36.5	2.53	64.3
T8-JCFX-0404S	34400-0404S	20435884	1/4	7/16-20	5/8	5/8	1.44	36.5	2.53	64.3
T7-JCFX-0405	32400-0405	20244002	1/4	1/2-20	3/4	5/8	1.44	36.5	2.53	64.3
T8-JCFX-0405	34400-0405	20244001	1/4	1/2-20	3/4	5/8	1.44	36.5	2.53	64.3
T7-JCFX-0406	32400-0406	20244007	1/4	9/16-18	3/4	5/8	1.44	36.5	2.53	64.3
T8-JCFX-0406	34400-0406	20243998	1/4	9/16-18	3/4	5/8	1.44	36.5	2.53	64.3
T7-JCFX-0505	32400-0505	20244010	5/16	1/2-20	3/4	5/8	1.25	31.8	2.53	64.3
T7-JCFX-0506	32400-0506	20244009	5/16	9/16-18	3/4	5/8	1.38	34.9	2.53	64.3
T7-JCFX-0604	32400-0604	20244015	3/8	7/16-20	5/8	13/16	1.25	31.8	2.69	68.3
T8-JCFX-0604	34400-0604	20244014	3/8	7/16-20	5/8	13/16	1.25	31.8	2.69	68.3
T7-JCFX-0606	32400-0606	20244011	3/8	9/16-18	3/4	3/4	1.50	38.1	2.81	71.5
T8-JCFX-0606	34400-0606	20244008	3/8	9/16-18	3/4	3/4	1.38	34.9	2.81	71.5
T7-JCFX-0608	32400-0608	20244017	3/8	3/4-16	15/16	3/4	1.38	34.9	2.81	71.5
T8-JCFX-0608	34400-0608	20244018	3/8	3/4-16	15/16	3/4	1.38	34.9	2.81	71.5
T7-JCFX-0610	32400-0610	20244013	3/8	7/8-14	1 1/8	7/8	1.50	38.1	2.97	75.4
T8-JCFX-0610	34400-0610	20244012	3/8	7/8-14	1 1/8	7/8	1.50	38.1	2.97	75.4
T7-JCFX-0808	32400-0808	20243932	1/2	3/4-16	15/16	7/8	1.62	41.3	3.16	80.2
T8-JCFX-0808	34400-0808	20244006	1/2	3/4-16	15/16	7/8	1.62	41.3	3.16	80.2
T7-JCFX-0810	32400-0810	20244005	1/2	7/8-14	1 1/8	7/8	1.62	41.3	3.16	80.2
T8-JCFX-0810	34400-0810	20244004	1/2	7/8-14	1 1/8	7/8	1.62	41.3	3.16	80.2
T7-JCFX-0812	32400-0812	20243934	1/2	1 1/8-12	1 1/4	1 1/8	1.62	41.3	3.25	82.6
T8-JCFX-0812	34400-0812	20243935	1/2	1 1/8-12	1 1/4	1 1/8	1.62	41.3	3.25	82.6
T7-JCFX-1210	32400-1210	20244016	3/4	7/8-14	1 1/8	1 1/8	1.62	41.3	3.44	87.3
T7-JCFX-1212	32400-1212	20243992	3/4	1 1/8-12	1 1/4	1 1/8	1.62	41.3	3.44	87.3
T7-JCFX-1216	32400-1216	20244019	3/4	1 3/8-12	1 1/2	1 3/8	1.69	42.9	3.50	88.9
T7-JCFX-1616	32400-1616	20243933	1	1 3/8-12	1 1/2	1 3/8	1.69	42.9	4.06	103.2

S=Stainless Steel (See Fitting Identification in Appendix for more information.)

## FITTINGS



## Section 7

TP Fittings

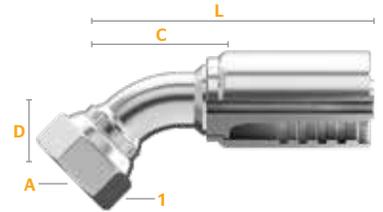
### COMPATIBLE HOSE:

SR7      NR7      SR8      NR8  
TR7      BR7      TR8      SR18

For a detailed list, please refer to your Crimp Specifications Manual.

# JIC 37° Flare (SAE J514)

Female / 45° Elbow / Swivel



Part Number	Product Number	SAP Number										
			Hose ID	Thread Size (A)	Hex 1 Wrench Size	Hex 2 Wrench Size	Drop (D)	Cut-Off (C)	Length (L)			
			in.		mm	mm	in.	mm	in.	mm	in.	mm
T7-JCFX45-0404	32420-0404	20243938	1/4	7/16-20	9/16	5/8	0.47	11.9	1.50	38.1	2.55	64.9
T8-JCFX45-0404	34420-0404	20243939	1/4	7/16-20	9/16	5/8	0.47	11.9	1.50	38.1	2.55	64.9
T8-JCFX45-0405	34420-0405	20243950	1/4	1/2-20	5/8	5/8	0.53	13.4	1.56	39.7	2.64	67.2
T7-JCFX45-0406	32420-0406	20243940	1/4	9/16-18	11/16	5/8	0.39	9.9	1.94	49.2	3.04	77.3
T8-JCFX45-0406	34420-0406	20243941	1/4	9/16-18	11/16	5/8	0.59	14.9	1.69	42.9	2.73	69.3
T7-JCFX45-0506	32420-0506	20243965	5/16	9/16-18	11/16	5/8	0.39	9.9	1.94	49.2	3.11	79.0
T7-JCFX45-0606	32420-0606	20243936	3/8	9/16-18	11/16	3/4	0.39	9.9	1.94	49.2	3.30	83.8
T8-JCFX45-0606	34420-0606	20243945	3/8	9/16-18	11/16	3/4	0.39	9.9	1.94	49.2	3.30	83.8
T7-JCFX45-0608	32420-0608	20243943	3/8	3/4-16	7/8	3/4	0.55	14.0	2.25	57.2	3.54	89.9
T8-JCFX45-0608	34420-0608	20243944	3/8	3/4-16	7/8	3/4	0.55	14.0	2.25	57.2	3.54	89.9
T7-JCFX45-0808	32420-0808	20243949	1/2	3/4-16	7/8	7/8	0.71	18.1	1.62	41.3	3.28	83.4
T8-JCFX45-0808	34420-0808	20243947	1/2	3/4-16	7/8	7/8	0.71	18.1	1.62	41.3	3.28	83.4
T7-JCFX45-0810	32420-0810	20243951	1/2	7/8-14	1	7/8	0.84	21.3	1.88	47.6	3.91	99.3
T8-JCFX45-0810	34420-0810	20243952	1/2	7/8-14	1	7/8	0.63	16.0	2.25	57.2	3.91	99.3
T7-JCFX45-1212	32420-1212	20243946	3/4	1 1/16-12	1 1/4	1 1/8	0.63	16.0	2.25	57.2	4.33	110.0
T7-JCFX45-1616	32420-1616	20243948	1	1 3/16-12	1 1/2	1 3/8	1.15	29.1	2.62	66.7	5.02	127.5
T7-JCFX45-1616	32420-1616	20243948	1	1 3/16-12	1 1/2	1 3/8	1.15	29.1	2.62	66.7	5.02	127.5

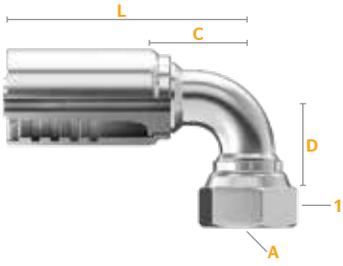


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**Section 7**  
TP Fittings

**FITTINGS**





## JIC 37° Flare (SAE J514)

Female / 90° Elbow / Swivel



Part Number	Product Number	SAP Number	Hose ID		Thread Size (A)		Hex 1	Hex 2	Elbow Type*	Drop (D)		Cut-Off (C)		Length (L)	
			in.	mm	in.	mm	in.	mm		in.	mm	in.	mm		
T7-JCFX90-0404	32425-0404	20243919	1/4	7/16-20	9/16	5/8				0.68	17.3	1.69	42.9	2.76	70.0
T8-JCFX90-0404	34425-0404	20243931	1/4	7/16-20	9/16	5/8				0.68	17.3	1.69	42.9	2.76	70.0
T7-JCFX90L-0404	32440-0404	20243958	1/4	7/16-20	9/16	5/8		LT		1.80	45.7	1.25	31.8	2.31	58.7
T8-JCFX90L-0404	34440-0404	20243957	1/4	7/16-20	9/16	5/8		LT		1.80	45.7	1.25	31.8	2.31	58.7
T7-JCFX90-0405	32425-0405	20243929	1/4	1/2-20	5/8	5/8				1.00	25.4	1.31	33.3	2.38	60.3
T8-JCFX90-0405	34425-0405	20243930	1/4	1/2-20	5/8	5/8				1.00	25.4	1.31	33.3	2.38	60.3
T7-JCFX90L-0405	32440-0405	20243968	1/4	1/2-20	5/8	5/8		LT		1.77	45.0	1.30	32.9	2.38	60.3
T8-JCFX90L-0405	34440-0405	20243969	1/4	1/2-20	5/8	5/8		LT		1.77	45.0	1.31	33.3	2.38	60.3
T7-JCFX90-0406	32425-0406	20243927	1/4	9/16-18	11/16	5/8				1.12	28.6	1.94	49.2	3.25	82.6
T8-JCFX90-0406	34425-0406	20243916	1/4	9/16-18	11/16	5/8				1.12	28.6	1.31	33.3	2.41	61.1
T7-JCFX90L-0406	32440-0406	20243954	1/4	9/16-18	11/16	5/8		LT		2.18	55.4	1.19	30.2	2.44	61.9
T8-JCFX90L-0406	34440-0406	20243955	1/4	9/16-18	11/16	5/8		LT		2.18	55.4	1.19	30.2	2.44	61.9
T7-JCFX90-0505	32425-0505	20243922	5/16	1/2-20	5/8	5/8				1.00	25.4	1.12	28.6	2.38	60.3
T7-JCFX90-0506	32425-0506	20243937	5/16	9/16-18	11/16	5/8				0.85	21.6	1.88	47.6	3.06	77.7
T7-JCFX90L-0506	32440-0506	20243960	5/16	9/16-18	11/16	5/8		LT		2.18	55.4	1.19	30.2	2.44	61.9
T7-JCFX90-0606	32425-0606	20243920	3/8	9/16-18	11/16	3/4				0.85	21.6	1.94	49.2	3.25	82.6
T8-JCFX90-0606	34425-0606	20243921	3/8	9/16-18	11/16	3/4				0.85	21.6	1.94	49.2	3.25	82.6
T7-JCFX90L-0606	32440-0606	20243953	3/8	9/16-18	11/16	3/4		LT		2.18	55.4	1.94	49.2	3.24	82.3
T8-JCFX90L-0606	34440-0606	20243959	3/8	9/16-18	11/16	3/4		LT		2.18	55.4	1.94	49.2	3.24	82.3
T7-JCFX90-0608	32425-0608	20243923	3/8	3/4-16	7/8	3/4				1.09	27.7	2.00	50.8	3.34	84.8
T8-JCFX90-0608	34425-0608	20243918	3/8	3/4-16	7/8	3/4				1.09	27.7	2.00	50.8	3.34	84.8
T7-JCFX90L-0608	32440-0608	20243956	3/8	3/4-16	7/8	3/4		LT		2.43	61.7	1.31	33.3	2.75	69.9
T8-JCFX90L-0608	34440-0608	20243962	3/8	3/4-16	7/8	3/4		LT		2.43	61.7	1.31	33.3	2.75	69.9
T7-JCFX90-0808	32425-0808	20243925	1/2	3/4-16	7/8	7/8				1.09	27.7	1.94	49.2	3.53	89.7
T8-JCFX90-0808	34425-0808	20243926	1/2	3/4-16	7/8	7/8				1.09	27.7	1.94	49.2	3.53	89.7
T7-JCFX90L-0808	32440-0808	20243970	1/2	3/4-16	7/8	7/8		LT		2.43	61.7	1.31	33.3	2.94	74.6
T8-JCFX90L-0808	34440-0808	20243964	1/2	3/4-16	7/8	7/8		LT		2.43	61.7	1.31	33.3	2.94	74.6
T7-JCFX90-0810	32425-0810	20243924	1/2	7/8-14	1	7/8				1.23	31.2	2.19	55.6	3.74	95.0
T8-JCFX90-0810	34425-0810	20243928	1/2	7/8-14	1	7/8				1.23	31.2	2.19	55.6	3.74	95.0
T7-JCFX90L-0810	32440-0810	20243966	1/2	7/8-14	1	7/8		LT		2.57	65.3	2.19	55.6	3.77	95.8
T8-JCFX90L-0810	34440-0810	20243967	1/2	7/8-14	1	7/8		LT		2.57	65.3	2.19	55.6	3.77	95.8
T7-JCFX90-1212	32425-1212	20243917	3/4	1 1/8-12	1 1/4	1 1/8				2.31	58.7	2.06	52.4	3.88	98.4
T7-JCFX90-1616	32425-1616	20243961	1	1 3/8-12	1 1/2	1 3/8				2.50	63.5	2.94	74.6	4.75	120.7
T7-JCFX90L-1616	32440-1616	20243963	1	1 3/8-12	1 1/2	1 3/8		LT		4.33	110.0	2.31	58.7	4.69	119.1

\*Elbow Type: LT=Long Tube

### FITTINGS



### Section 7

TP Fittings

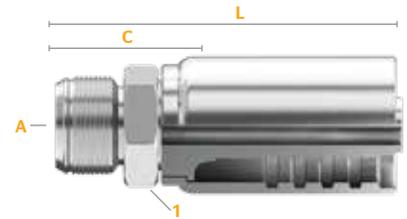
#### COMPATIBLE HOSE:

SR7      NR7      SR8      NR8  
TR7      BR7      TR8      SR18

For a detailed list, please refer to your Crimp Specifications Manual.

## JIC 37° Flare (SAE J514)

Male



Part Number	Product Number	SAP Number							
			Hose ID	Thread Size (A)	Hex 1 Wrench Size	Cut-Off (C)		Length (L)	
			in.		mm	in.	mm	in.	mm
T7-JCM-0304	32450-0304	20243990	3/16	7/16-20	9/16	1.25	31.8	2.05	52.1
T8-JCM-0304	34450-0304	20243989	3/16	7/16-20	9/16	1.25	31.8	2.05	52.1
T7-JCM-0404	32450-0404	20243973	1/4	7/16-20	5/8	1.25	31.8	2.30	58.4
T8-JCM-0404	34450-0404	20243972	1/4	7/16-20	5/8	1.25	31.8	2.30	58.4
T7-JCM-0405	32450-0405	20243975	1/4	1/2-20	5/8	1.25	31.8	2.30	58.4
T8-JCM-0405	34450-0405	20243974	1/4	1/2-20	5/8	1.25	31.8	2.30	58.4
T7-JCM-0406	32450-0406	20243985	1/4	9/16-18	3/4	1.32	33.5	2.40	61.0
T8-JCM-0406	34450-0406	20243978	1/4	9/16-18	3/4	1.31	33.3	2.40	61.0
T7-JCM-0505	32450-0505	20243982	5/16	1/2-20	5/8	1.06	27.0	2.36	60.0
T7-JCM-0506	32450-0506	20243981	5/16	9/16-18	11/16	1.31	33.3	2.30	58.4
T7-JCM-0606	32450-0606	20243984	3/8	9/16-18	3/4	1.38	34.9	2.59	65.7
T8-JCM-0606	34450-0606	20243983	3/8	9/16-18	3/4	1.12	28.6	2.59	65.7
T7-JCM-0608	32450-0608	20243987	3/8	3/4-16	13/16	1.38	34.9	2.69	68.3
T8-JCM-0608	34450-0608	20243986	3/8	3/4-16	13/16	1.25	31.8	2.69	68.3
T7-JCM-0808	32450-0808	20243979	1/2	3/4-16	7/8	1.44	36.5	2.88	73.1
T8-JCM-0808	34450-0808	20243971	1/2	3/4-16	7/8	1.25	31.8	2.88	73.1
T7-JCM-0810	32450-0810	20243977	1/2	7/8-14	15/16	1.44	36.5	3.10	78.8
T8-JCM-0810	34450-0810	20243976	1/2	7/8-14	15/16	1.50	38.1	3.10	78.8
T7-JCM-1212	32450-1212	20243988	3/4	1 1/8-12	1 1/8	1.50	38.1	3.32	84.4
T7-JCM-1616	32450-1616	20243980	1	1 1/8-12	1 3/8	1.62	41.3	3.94	100.1

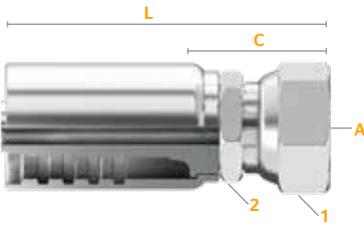


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**FITTINGS**

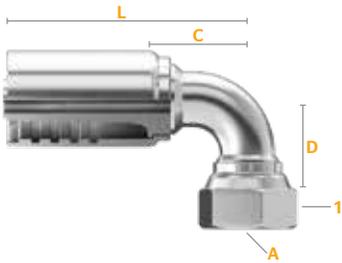




## SAE 45° J512 Flare

Female / Swivel

Part Number	Product Number	SAP Number								
			Hose ID	Thread Size (A)	Hex 1 Wrench Size	Hex 2 Wrench Size	Cut-Off (C)		Length (L)	
			in.		mm	mm	in.	mm	in.	mm
T7-SFFX-0404	32775-0404	20244137	1/4	7/16-20	5/8	5/8	1.44	36.5	2.53	64.3
T8-SFFX-0404	34775-0404	20244136	1/4	7/16-20	5/8	5/8	1.45	36.7	2.53	64.3
T7-SFFX-0405	32775-0405	20244140	1/4	1/2-20	3/4	5/8	1.45	36.7	2.53	64.3
T8-SFFX-0405	34775-0405	20244139	1/4	1/2-20	3/4	5/8	1.45	36.7	2.53	64.3
T7-SFFX-0406	32775-0406	20244138	1/4	5/8-18	13/16	5/8	1.44	36.5	2.53	64.3
T8-SFFX-0406	34775-0406	20244145	1/4	5/8-18	13/16	5/8	1.44	36.5	2.53	64.3
T7-SFFX-0506	32775-0506	20244132	5/16	5/8-18	13/16	5/8	1.25	31.8	2.53	64.3
T7-SFFX-0606	32775-0606	20244134	3/8	5/8-18	13/16	3/4	1.38	34.9	2.81	71.5
T8-SFFX-0606	34775-0606	20244133	3/8	5/8-18	13/16	3/4	1.38	34.9	2.81	71.5
T7-SFFX-0808	32775-0808	20244142	1/2	3/4-16	15/16	7/8	1.66	42.1	3.15	80.0
T8-SFFX-0808	34775-0808	20244141	1/2	3/4-16	15/16	7/8	1.66	42.1	3.15	80.0
T7-SFFX-1212	32775-1212	20244135	3/4	1 1/8-14	1 1/4	1 1/8	1.62	41.3	3.44	87.3



## SAE 45° J512 Flare

Female / 90° Elbow / Swivel

Part Number	Product Number	SAP Number										
			Hose ID	Thread Size (A)	Hex 1 Wrench Size	Hex 2 Wrench Size	Drop (D)		Cut-Off (C)		Length (L)	
			in.		mm	mm	in.	mm	in.	mm	in.	mm
T7-SFFX90-0606	32780-0606	20244144	3/8	5/8-18	3/4	3/4	1.12	28.6	1.19	30.2	2.63	66.8
T8-SFFX90-0606	34780-0606	20244143	3/8	5/8-18	3/4	3/4	1.12	28.6	1.19	30.2	2.63	66.8

### FITTINGS



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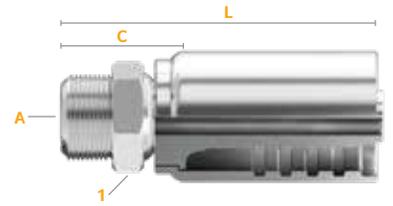
#### COMPATIBLE HOSE:

SR7      NR7      SR8      NR8  
 TR7      BR7      TR8      SR18

For a detailed list, please refer to your Crimp Specifications Manual.

## SAE 45° Inverted Flare

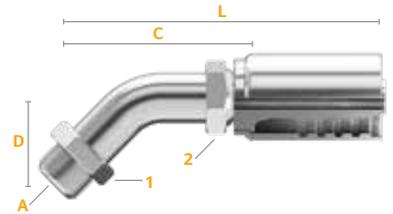
Male / Swivel



Part Number	Product Number	SAP Number								
			Hose ID	Thread Size (A)	Hex 1 Wrench Size	Hex 2 Wrench Size	Cut-Off (C)		Length (L)	
			in.		mm	mm	in.	mm	in.	mm
T7-SIMX-0404	32800-0404	20244127	1/4	7/16-24	7/16	5/8	1.64	41.6	2.72	69.1
T7-SIMX-0405	32800-0405	20244128	1/4	1/2-20	1/2	5/8	1.69	42.9	2.78	70.6

## SAE 45° Inverted Flare

Male / 45° Elbow / Swivel



Part Number	Product Number	SAP Number										
			Hose ID	Thread Size (A)	Hex 1 Wrench Size	Hex 2 Wrench Size	Drop (D)		Cut-Off (C)		Length (L)	
			in.		mm	mm	in.	mm	in.	mm	in.	mm
T8-SIMX45-0606	34810-0606	20244130	3/8	5/8-18	5/8	3/4	0.96	24.5	1.88	47.6	3.30	83.8

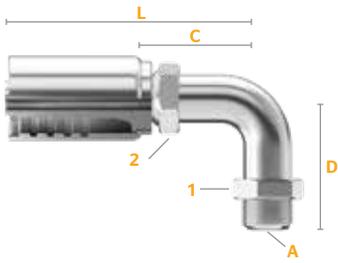


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TP Fittings

**FITTINGS**

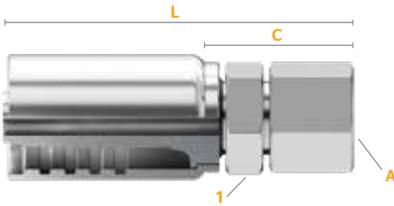




## SAE 45° Inverted Flare

Male / 90° Elbow / Swivel

Part Number	Product Number	SAP Number										
			Hose ID	Thread Size (A)	Hex 1 Wrench Size	Hex 2 Wrench Size	in.	mm	in.	mm	in.	mm
T7-SIMX90-0404	32815-0404	20244129	1/4	7/16-24	7/16	9/16	1.31	33.3	1.23	31.3	2.31	58.7
T7-SIMX90-0606	32815-0606	20244131	3/8	5/8-18	5/8	3/4	1.66	42.2	1.19	30.2	2.62	66.7
T8-SIMX90-0606	34815-0606	20244126	3/8	5/8-18	5/8	3/4	1.66	42.2	1.19	30.2	2.63	66.8



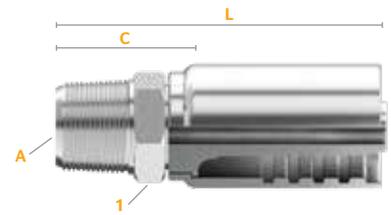
## NPTF

Female

Part Number	Product Number	SAP Number							
			Hose ID	Thread Size (A)	Hex 1 Wrench Size	in.	mm	in.	mm
T7-NPF-0404	32600-0404	20244060	1/4	1/4-18	3/4	1.25	31.8	2.34	59.5
T8-NPF-0404	34600-0404	20244059	1/4	1/4-18	3/4	1.25	31.8	2.34	59.5
T7-NPF-0604	32600-0604	20244058	3/8	1/4-18	3/4	1.06	27.0	2.53	64.3
T7-NPF-0606	32600-0606	20244057	3/8	3/8-18	7/8	1.19	30.2	2.63	66.7
T8-NPF-0606	34600-0606	20244056	3/8	3/8-18	7/8	1.19	30.2	2.63	66.7
T7-NPF-0808	32600-0808	20244062	1/2	1/2-14	1 1/16	1.31	33.3	3.03	77.0
T8-NPF-0808	34600-0808	20244061	1/2	1/2-14	1 1/16	1.31	33.3	3.03	77.0

**NPTF**

Male



Part Number	Product Number	SAP Number							
			Hose ID	Thread Size (A)	Hex 1 Wrench Size	Cut-Off (C)	Length (L)	in.	mm
T7-NPM-0202	32615-0202	20244064	1/8	1/8-27	1/2	0.75	19.1	1.34	34.1
T7-NPM-0302	32615-0302	20244065	3/16	1/8-27	9/16	1.06	27.0	1.88	47.8
T8-NPM-0302	34615-0302	20244055	3/16	1/8-27	9/16	1.06	27.0	1.88	47.8
T7-NPM-0304	32615-0304	20244067	3/16	1/4-18	11/16	1.25	31.8	2.06	52.3
T8-NPM-0304	34615-0304	20244066	3/16	1/4-18	11/16	1.25	31.8	2.06	52.3
T7-NPM-0306	32615-0306	20244052	3/16	3/8-18	3/4	1.38	34.9	2.15	54.7
T8-NPM-0306	34615-0306	20244038	3/16	3/8-18	3/4	1.38	34.9	2.15	54.7
T7-NPM-0402	32615-0402	20244072	1/4	1/8-27	5/8	1.06	27.0	2.13	54.1
T8-NPM-0402	34615-0402	20244071	1/4	1/8-27	5/8	1.06	27.0	2.13	54.1
T7-NPM-0404	32615-0404	20244078	1/4	1/4-18	11/16	1.25	31.8	2.31	58.7
T8-NPM-0404	34615-0404	20244079	1/4	1/4-18	11/16	1.25	31.8	2.31	58.7
T8-NPM-0404S	34615-0404S	20435885	1/4	1/4-18	11/16	1.25	31.8	2.31	58.7
T7-NPM-0406	32615-0406	20244070	1/4	3/8-18	3/4	1.31	33.3	2.40	61.1
T8-NPM-0406	34615-0406	20244069	1/4	3/8-18	3/4	1.31	33.3	2.40	61.1
T7-NPM-0408	32615-0408	20244076	1/4	1/2-14	15/16	1.56	39.7	2.66	67.5
T8-NPM-0408	34615-0408	20244077	1/4	1/2-14	15/16	1.56	39.7	2.66	67.5
T7-NPM-0504	32615-0504	20244032	5/16	1/4-18	11/16	1.12	28.6	2.31	58.8
T7-NPM-0604	32615-0604	20244033	3/8	1/4-18	3/4	1.31	33.3	2.59	65.8
T8-NPM-0604	34615-0604	20244030	3/8	1/4-18	3/4	1.31	33.3	2.59	65.8
T7-NPM-0606	32615-0606	20244028	3/8	3/8-18	3/4	1.31	33.3	2.59	65.8
T8-NPM-0606	34615-0606	20244029	3/8	3/8-18	3/4	1.31	33.3	2.59	65.8
T7-NPM-0608	32615-0608	20244031	3/8	1/2-14	15/16	1.56	39.7	2.84	72.2
T8-NPM-0608	34615-0608	20244035	3/8	1/2-14	15/16	1.56	39.7	2.84	72.2
T7-NPM-0806	32615-0806	20244073	1/2	3/8-18	7/8	1.28	32.5	2.78	70.7
T8-NPM-0806	34615-0806	20244075	1/2	3/8-18	7/8	1.25	31.8	2.78	70.7
T7-NPM-0808	32615-0808	20244054	1/2	1/2-14	15/16	1.50	38.1	3.03	77.0
T8-NPM-0808	34615-0808	20244053	1/2	1/2-14	15/16	1.50	38.1	3.03	77.0
T7-NPM-0812	32615-0812	20244068	1/2	3/4-14	1 1/8	1.50	38.1	3.04	77.1
T8-NPM-0812	34615-0812	20244074	1/2	3/4-14	1 1/8	1.50	38.1	3.09	78.6
T7-NPM-1208	32615-1208	20244037	3/4	1/2-14	1 1/8	1.44	36.5	3.22	81.8
T7-NPM-1212	32615-1212	20244036	3/4	3/4-14	1 1/8	1.38	34.9	3.22	81.8
T8-NPM-1212	34615-1212	20440323	3/4	3/4-14	1 1/8	1.63	41.3	3.21	81.5
T7-NPM-1616	32615-1616	20244063	1	1-11 1/2	1 3/8	1.62	41.3	3.97	100.8
T8-NPM-1616	34615-1616	20440324	1	1-11 1/2	1 3/8	1.88	47.6	3.97	100.8

S=Stainless Steel (See Fitting Identification in Appendix for more information.)

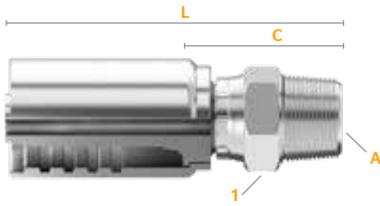


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**Section 7**  
TP Fittings

**FITTINGS**

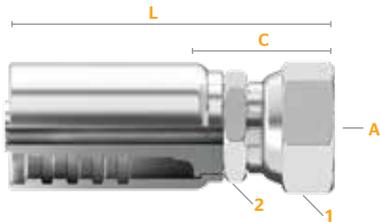




## NPTF

Male / Swivel

Part Number	Product Number	SAP Number	Hose ID		Thread Size (A)		Hex 1 Wrench Size		Hex 2 Wrench Size		Cut-Off (C)		Length (L)	
			in.	mm	in.	mm	in.	mm	in.	mm	in.	mm		
T7-NPMX-0202	32645-0202	20598101	1/8	1/8-27	1/2	1/2	1.33	33.8	1.90	48.2				
T7-NPMX-0304	32645-0304	20244047	3/16	1/4-18	11/16	5/8	1.81	46.0	2.64	67.0				
T8-NPMX-0304	34645-0304	20244039	3/16	1/4-18	11/16	5/8	1.81	46.0	2.64	67.0				
T7-NPMX-0404	32645-0404	20244050	1/4	1/4-18	11/16	5/8	1.81	46.0	2.87	73.0				
T8-NPMX-0404	34645-0404	20244049	1/4	1/4-18	11/16	5/8	1.81	46.0	2.87	73.0				
T7-NPMX-0406	32645-0406	20244048	1/4	3/8-18	3/4	5/8	1.93	49.0	3.02	76.7				
T7-NPMX-0504	32645-0504	20244040	5/16	1/4-18	11/16	5/8	1.62	41.3	2.87	73.0				
T7-NPMX-0606	32645-0606	20244042	3/8	3/8-18	3/4	3/4	1.69	42.9	3.15	80.0				
T8-NPMX-0606	34645-0606	20244041	3/8	3/8-18	3/4	3/4	1.69	42.9	3.15	80.0				
T7-NPMX-0608	32645-0608	20244044	3/8	1/2-14	7/8	3/4	1.88	47.6	3.38	85.7				
T8-NPMX-0608	34645-0608	20244043	3/8	1/2-14	7/8	3/4	1.88	47.6	3.31	84.2				
T7-NPMX-0808	32645-0808	20244045	1/2	1/2-14	15/16	7/8	1.94	49.2	3.61	91.7				
T8-NPMX-0808	34645-0808	20244051	1/2	1/2-14	15/16	7/8	1.94	49.2	3.61	91.7				
T7-NPMX-1212	32645-1212	20244046	3/4	3/4-14	1 1/8	1 1/8	2.00	50.8	3.84	97.5				
T7-NPMX-1616	32645-1616	20244034	1	1-11 1/2	1 1/2	1 1/8	2.31	58.7	4.65	118.1				



## NPSM

Female / Swivel

Part Number	Product Number	SAP Number	Hose ID		Thread Size (A)		Hex 1 Wrench Size		Hex 2 Wrench Size		Cut-Off (C)		Length (L)	
			in.	mm	in.	mm	in.	mm	in.	mm	in.	mm		
T7-NSFX-0808	32655-0808	20244026	1/2	1/2-14	1	1	1.38	34.9	3.06	77.8				
T8-NSFX-0808	34655-0808	20244027	1/2	1/2-14	1	1	1.38	34.9	3.06	77.8				

# FITTINGS



## Section 7

TP Fittings

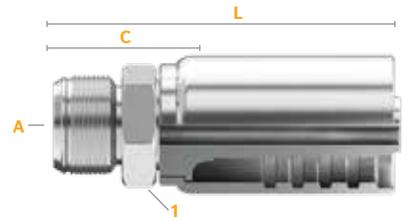
### COMPATIBLE HOSE:

SR7      NR7      SR8      NR8  
TR7      BR7      TR8      SR18

For a detailed list, please refer to your Crimp Specifications Manual.

## SAE J514 Flareless Tube Fittings

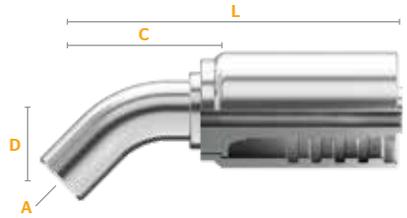
Male



Part Number	Product Number	SAP Number							
			Hose ID	Thread Size (A)	Hex 1 Wrench Size	Cut-Off (C)		Length (L)	
			in.		mm	in.	mm	in.	mm
T7-FTM-0606	32360-0606	20244148	3/8	9/16-18	3/4	1.06	27.0	2.50	63.4
T8-FTM-0606	34360-0606	20244147	3/8	9/16-18	3/4	1.06	26.9	2.50	63.5
T7-FTM-0808	32360-0808	20244146	1/2	3/4-16	7/8	1.16	29.4	2.78	70.6

## Standpipe

45° Elbow



Part Number	Product Number	SAP Number									
			Hose ID	Thread Size (A)	Hex 1 Wrench Size	Drop (D)		Cut-Off (C)		Length (L)	
			in.		mm	in.	mm	in.	mm	in.	mm
T7-SP45-0408	32830-0408	20244149	1/4	8	5/8	0.75	19.0	1.77	45.0	2.80	71.0
T8-SP45-0408	34830-0408	20244150	1/4	8	5/8	0.75	19.0	1.77	45.0	2.80	71.0

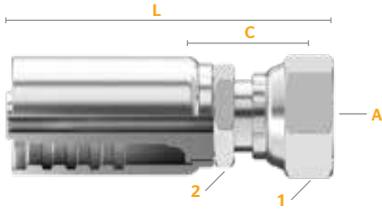


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**Section 7**  
TP Fittings

**FITTINGS**

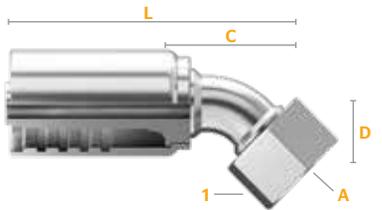




## O-Ring Face Seal (SAE J1453 ORS/ORFS)

Female / Swivel

Part Number	Product Number	SAP Number	Hose ID		Hex 1 Wrench Size		Hex 2 Wrench Size		Cut-Off (C)		Length (L)	
			in.	mm	mm	mm	in.	mm	in.	mm		
T7-OFFX-0404	32700-0404	20244101	1/4	9/16-18	11/16	5/8	1.50	38.1	2.60	66.0		
T8-OFFX-0404	34700-0404	20244105	1/4	9/16-18	11/16	5/8	1.50	38.1	2.60	66.0		
T7-OFFX-0506	32700-0506	20244108	5/16	11/16-16	13/16	5/8	1.56	39.7	2.74	69.7		
T7-OFFX-0606	32700-0606	20244103	3/8	11/16-16	7/8	3/4	1.44	36.5	2.75	69.9		
T8-OFFX-0606	34700-0606	20244106	3/8	11/16-16	7/8	3/4	1.44	36.5	2.75	69.9		
T7-OFFX-0608	32700-0608	20244107	3/8	13/16-16	15/16	3/4	1.88	47.6	3.22	81.8		
T7-OFFX-0808	32700-0808	20244097	1/2	13/16-16	15/16	7/8	1.56	39.7	3.12	79.4		
T8-OFFX-0808	34700-0808	20244098	1/2	13/16-16	15/16	7/8	1.69	42.9	3.28	83.4		
T8-OFFX-0810	34700-0810	20244096	1/2	1-14	1 1/8	7/8	1.88	47.6	3.39	86.1		
T7-OFFX-1212	32700-1212	20244104	3/4	1 3/16 - 12	1 3/8	1 1/2	2.12	54.0	3.88	98.7		
T7-OFFX-1616	32700-1616	20244095	1	1 3/16 - 12	1 5/8	1 3/4	2.12	54.0	4.36	110.7		



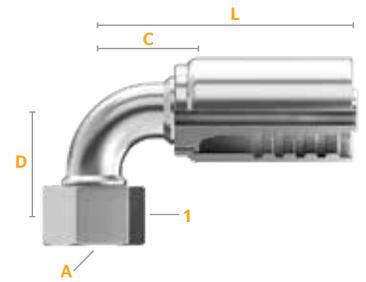
## O-Ring Face Seal (SAE J1453 ORS/ORFS)

Female / 45° Elbow / Swivel

Part Number	Product Number	SAP Number	Hose ID		Hex 1 Wrench Size		Hex 2 Wrench Size		Drop (D)		Cut-Off (C)		Length (L)	
			in.	mm	mm	mm	in.	mm	in.	mm	in.	mm		
T7-OFFX45-0404	32710-0404	20244116	1/4	9/16-18	11/16	5/8	0.41	10.4	1.50	38.1	2.55	64.8		
T8-OFFX45-0404	34710-0404	20244117	1/4	9/16-18	11/16	5/8	0.41	10.4	1.50	38.1	2.55	64.8		
T7-OFFX45-0506	32710-0506	20244111	5/16	11/16-16	13/16	5/8	0.43	10.9	1.50	38.1	2.63	66.9		
T7-OFFX45-0606	32710-0606	20244109	3/8	11/16-16	13/16	3/4	0.43	10.9	1.50	38.1	2.82	71.8		
T8-OFFX45-0606	34710-0606	20244110	3/8	11/16-16	13/16	3/4	0.43	10.9	1.50	38.1	2.82	71.8		
T7-OFFX45-0608	32710-0608	20268564	3/8	13/16-16	15/16	3/4	0.47	11.9	1.65	41.9	3.12	79.2		
T7-OFFX45-0808	32710-0808	20244115	1/2	13/16-16	15/16	7/8	0.59	15.0	1.75	44.5	3.32	84.2		
T8-OFFX45-0808	34710-0808	20244114	1/2	13/16-16	15/16	7/8	0.59	15.0	1.75	44.5	3.32	84.2		

## O-Ring Face Seal (SAE J1453 ORS/ORFS)

Female / 90° Elbow / Swivel

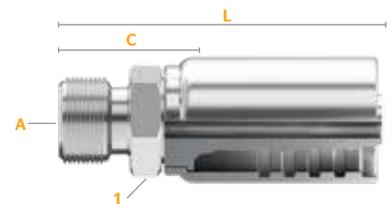


Part Number	Product Number	SAP Number											
			Hose ID	Thread Size (A)	Hex 1 Wrench Size	Hex 2 Wrench Size	Elbow Type*	Drop (D)	Drop (D)	Cut-Off (C)	Cut-Off (C)	Length (L)	Length (L)
			in.		in.	in.		in.	mm	in.	mm	in.	mm
T7-OFFX90-0404	32715-0404	20244118	1/4	9/16-18	11/16	5/8		0.78	19.8	1.25	31.8	2.31	58.8
T8-OFFX90-0404	34715-0404	20244123	1/4	9/16-18	11/16	5/8		0.78	19.8	1.25	31.8	2.31	58.8
T7-OFFX90-0506	32715-0506	20244100	5/16	11/16-16	13/16	3/4		0.90	22.9	1.94	49.2	3.10	78.7
T7-OFFX90-0606	32715-0606	20244119	3/8	11/16-16	13/16	3/4		0.90	22.9	2.00	50.8	3.30	83.8
T8-OFFX90-0606	34715-0606	20244120	3/8	11/16-16	13/16	3/4		0.90	22.9	2.00	50.8	3.30	83.8
T7-OFFX90L-0606	32720-0606	20244121	3/8	11/16-16	13/16	3/4	LT	2.13	54.1	1.44	36.5	2.74	69.6
T8-OFFX90L-0606	34720-0606	20244122	3/8	11/16-16	13/16	3/4	LT	2.13	54.1	1.44	36.5	2.74	69.6
T7-OFFX90-0808	32715-0808	20244124	1/2	13/16-16	15/16	7/8		1.15	29.2	1.50	38.1	3.04	77.3
T8-OFFX90-0808	34715-0808	20244125	1/2	13/16-16	15/16	7/8		1.15	29.2	1.50	38.1	3.04	77.3
T7-OFFX90L-0808	32720-0808	20244112	1/2	13/16-16	15/16	7/8	LT	2.51	63.8	1.56	39.7	3.16	80.3
T8-OFFX90L-0808	34720-0808	20244113	1/2	13/16-16	15/16	7/8	LT	2.51	63.8	1.56	39.7	3.16	80.3

\*Elbow Type: LT=Long Tube

## O-Ring Face Seal (SAE J1453 ORS/ORFS)

Male



Part Number	Product Number	SAP Number							
			Hose ID	Thread Size (A)	Hex 1 Wrench Size	Cut-Off (C)	Cut-Off (C)	Length (L)	Length (L)
			in.		mm	in.	mm	in.	mm
T7-OFM-0404	32730-0404	20244102	1/4	9/16-18	5/8	1.06	27.0	2.13	54.1

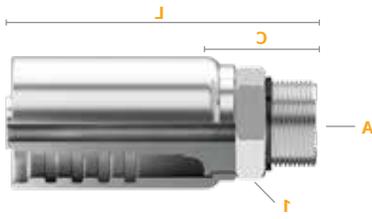


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**Section 7**  
TP Fittings

**FITTINGS**

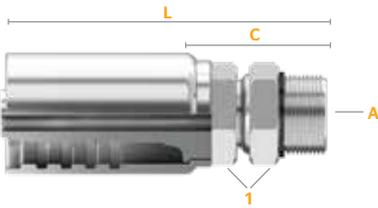




## O-Ring Boss Straight Thread (SAE J514)

Male

Part Number	Product Number	SAP Number	Hose ID		Hex 1 Wrench Size		Cut-Off (C)		Length (L)	
			in.	mm	mm	mm	in.	mm		
T7-OBM-0406	32670-0406	20244092	1/4	9/16-18	11/16	1.06	27.0	2.14	54.4	
T8-OBM-0406	34670-0406	20244093	1/4	9/16-18	11/16	1.06	27.0	2.14	54.4	
T7-OBM-0606	32670-0606	20244083	3/8	9/16-18	3/4	1.00	25.4	2.42	61.5	
T8-OBM-0606	34670-0606	20244084	3/8	9/16-18	3/4	1.00	25.4	2.42	61.5	
T7-OBM-0608	32670-0608	20244081	3/8	3/4-16	7/8	1.03	26.2	2.47	62.7	
T8-OBM-0608	34670-0608	20244082	3/8	3/4-16	7/8	1.03	26.2	2.47	62.7	
T7-OBM-0808	32670-0808	20244090	1/2	3/4-16	15/16	1.09	27.8	2.78	70.7	
T8-OBM-0808	34670-0808	20244091	1/2	3/4-16	15/16	1.09	27.8	2.78	70.7	



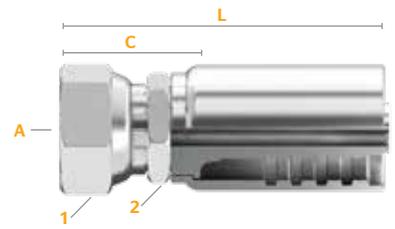
## O-Ring Boss Straight Thread (SAE J514)

Male / Swivel

Part Number	Product Number	SAP Number	Hose ID		Hex 1 Wrench Size		Cut-Off (C)		Length (L)	
			in.	mm	mm	mm	in.	mm		
T7-OBMX-0606	32680-0606	20244080	3/8	9/16-18	3/4	1.50	38.1	2.97	75.4	
T8-OBMX-0606	34680-0606	20244086	3/8	9/16-18	3/4	1.50	38.1	2.97	75.4	

## JIS 30° (Parallel Pipe Threads)

Female / Swivel



Part Number	Product Number	SAP Number										
			Hose ID	Thread Size (A)	Hex 1 Wrench Size	Hex 2 Wrench Size	Cut-Off (C)	Length (L)				
			in.		in.	mm	in.	mm	in.	mm		
T7-JSFX-0404	32520-0404	20244023	1/4	1/4-19	3/4	19	13/16	19	1.38	34.9	2.46	62.6
T8-JSFX-0404	34520-0404	20244020	1/4	1/4-19	3/4	19	13/16	19	1.38	34.9	2.46	62.6
T7-JSFX-0606	32520-0606	20244022	3/8	3/8-19	7/8	22	7/8	22	1.56	39.7	2.82	71.6
T8-JSFX-0606	34520-0606	20244021	3/8	3/8-19	7/8	22	7/8	22	1.56	39.7	2.82	71.6
T7-JSFX-0808	32520-0808	20244025	1/2	1/2-14	1 1/6	27	7/8	22	1.69	42.9	3.32	84.4
T8-JSFX-0808	34520-0808	20244024	1/2	1/2-14	1 1/6	27	7/8	22	1.69	42.9	3.32	84.4



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**Section 7**  
TP Fittings

**FITTINGS**



# SECTION 8 - UT FITTINGS

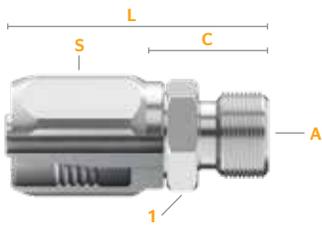
This section lists all fittings compatible with the following hose:

Hose	Description	Compatible Dash Size
DUT	SAE J1402 Type AI	All hose dash sizes

## How to Use the Fittings Table

The fittings in this section will follow a similar table structure to the one seen on this page.

Fitting dimensions and attributes are explained below.



## Fitting Name

Compatible Hose  
Fitting Description

Part Number	Product Number	SAP Number											
			Hose ID	Thread Size (A)	Hex 1 Wrench Size	Hex 2 Wrench Size	(S) Socket Wrench Size	Cut-Off (C)	Length (L)				
			in.		in.	mm	in.	mm	in.	mm	in.	mm	
UTFTM-0404	38360-0404	20419775	3/16	7/16-20	1/2	12.7	9/16	14.3	9/16	0.96	24.5	1.68	42.7
UTFTM-0505	38360-0505	20419777	1/4	1/2-20	9/16	14.3	5/8	15.9	5/8	0.92	23.4	1.72	43.7
UTFTM-0604	38360-0604	20419778	5/16	7/16-20	9/16	14.3	9/16	14.3	3/4	1.01	25.7	2.12	53.8

### Fitting Dimensions and Attributes

**Part Number** See Hydraulic Fittings Nomenclature on page 128 for a breakdown of part number attributes

**Hose ID** The compatible Hose ID

**Tube ID** The compatible Tube ID

**Thread Size** The thread size or sizes available for a particular fitting dash size (indicated by **A** in the fitting image)

**Hex Size** The wrench size for one or both nuts on the fitting (indicated by **1** or **2** in the fitting image)

**Drop** The length of the elbow (indicated by **D** in the fitting image)

**Cut-Off** The amount of hose to be cut for a correct assembly length (indicated by **C** in the fitting image)

**Length** The overall length of the fitting

Choose fittings carefully, considering the working pressure of both the hose and fitting. The maximum working pressure of the hose assembly is the lesser of the rated working pressure of the hose and the fitting. See page 333 for the Fittings Working Pressure Guide.

# UT Fittings Overview

A complete overview of all UT fittings found in this section.

## JIC 37° Flare (SAE J514)

Female Swivel



UT-JCFX

P. 308

## JIC 37° Flare (SAE J514)

Female 45° Elbow Swivel



UT-JCFX45

P. 308

## JIC 37° Flare (SAE J514)

Female 90° Elbow Swivel



UT-JCFX90

P. 309

## SAE 45° J512 Flare

Female Swivel



UT-SFFX

P. 309

## SAE 45° J512 Flare

Female 45° Elbow Swivel



UT-SFFX45

P. 310

## SAE 45° J512 Flare

Female 90° Elbow Swivel



UT-SFFX90

P. 310

## SAE 45° Inverted Flare

Male Swivel



UT-SIMX

P. 311

## SAE 45° Inverted Flare

Male 45° Elbow Swivel



UT-SIMX45

P. 311

## SAE 45° Inverted Flare (SAE J514)

Male 90° Elbow Swivel



UT-SIMX90

P. 312

## NPTF

Male



UT-NPM

P. 312

## SAE J514 Flareless Tube Fittings

Male



UT-FTM

P. 313

## Flange Engine Oil Connection (Two Bolt)

90° Elbow



UT-FL90EOC

P. 313

## PTT 30°

Female Swivel

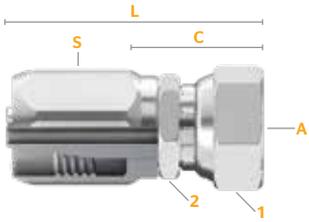


UT-PTTFX

P. 313



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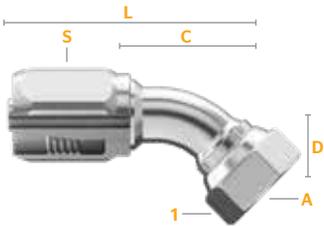


## JIC 37° Flare (SAE J514)

Female / Swivel

Part Number	Product Number	SAP Number											
			Hose ID	Thread Size (A)	Hex 1 Wrench Size	Hex 2 Wrench Size	(S) Socket Wrench Size	Cut-Off (C)	Length (L)				
			in.		in.	mm	in.	mm	in.	mm	in.	mm	
UT-JCFX-0404 <sup>DS</sup>	38400-0404	20419786	3/16	7/16-20	1/2	12.7	9/16	14.3	9/16	1.10	27.9	1.82	46.2
UT-JCFX-0505 <sup>DS</sup>	38400-0505	20419787	1/4	1/2-20	1/2	12.7	11/16	17.5	5/8	1.21	30.7	2.00	50.8
UT-JCFX-0606	38400-0606	20419788	5/16	9/16-18	3/4	19.1	3/4	19.1	3/4	1.19	30.2	2.04	51.8
UT-JCFX-0808 <sup>DS</sup>	38400-0808	20419789	13/32	3/4-16	7/8	22.2	7/8	22.2	7/8	1.45	36.8	2.45	62.2
UT-JCFX-1010 <sup>DS</sup>	38400-1010	20419801	1/2	7/8-14	1 1/16	27.0	1 1/16	27.0	1	1.65	41.9	2.72	69.1
UT-JCFX-1212	38400-1212	20419803	5/8	1 1/16-12	1 1/4	31.8	1 1/4	31.8	1 1/8	1.78	45.2	2.92	74.2
UT-JCFX-1616	38400-1616	20419804	7/8	1 3/8-12	1 1/2	38.1	1 1/2	38.1	1 3/8	1.84	46.7	2.90	73.7
UT-JCFX-2020	38400-2020	20419806	1 1/8	1 5/8-12	1 3/4	39.7	2	50.8	1 3/4	2.20	55.9	3.34	84.8

DS = Dual Seat (Connects to either SAE 45° or JIC 37° male fitting.)



## JIC 37° Flare (SAE J514)

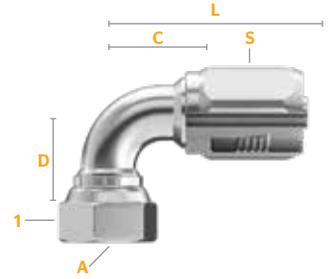
Female / 45° Elbow / Swivel

Part Number	Product Number	SAP Number													
			Hose ID	Thread Size (A)	Hex 1 Wrench Size	Hex 2 Wrench Size	(S) Socket Wrench Size	Drop (D)	Cut-Off (C)	Length (L)					
			in.		in.	mm	in.	mm	in.	mm	in.	mm			
UT-JCFX45-0404 <sup>DS</sup>	38420-0404	20419746	3/16	7/16-20	1/2	12.7	9/16	14.3	9/16	0.34	8.6	1.20	30.5	1.92	48.8
UT-JCFX45-0606	38420-0606	20419747	5/16	9/16-18	1/2	12.7	11/16	17.5	3/4	0.41	10.4	1.48	37.6	2.33	59.2
UT-JCFX45-0808 <sup>DS</sup>	38420-0808	20419749	13/32	3/4-16	1 1/16	17.5	7/8	22.2	7/8	0.56	14.2	1.73	43.9	2.73	69.3
UT-JCFX45-1010 <sup>DS</sup>	38420-1010	20419750	1/2	7/8-14	3/4	19.1	1	25.4	1	0.63	16.0	2.11	53.6	3.17	80.5
UT-JCFX45-1212	38420-1212	20419751	5/8	1 1/16-12	7/8	22.2	1 1/4	31.8	1 1/8	0.78	19.8	2.49	63.2	3.63	92.2

DS = Dual Seat (Connects to either SAE 45° or JIC 37° male fitting.)

## JIC 37° Flare (SAE J514)

Female / 90° Elbow / Swivel

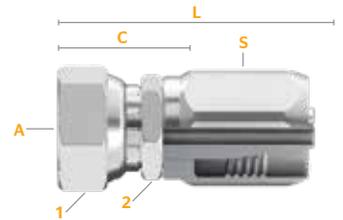


Part Number	Product Number	SAP Number													
			Hose ID	Thread Size (A)	Hex 1 Wrench Size	Hex 2 Wrench Size	(S) Socket Wrench Size	Drop (D)	Cut-Off (C)	Length (L)					
			in.		in.	mm	in.	mm	in.	mm	in.	mm			
UT-JCFX90-0404 <sup>DS</sup>	38425-0404	20419742	3/16	7/16-20	1/2	12.7	9/16	14.3	9/16	0.69	17.5	1.00	25.4	1.72	43.7
UT-JCFX90-0606	38425-0606	20419538	5/16	9/16-18	1/2	12.7	11/16	17.5	3/4	0.84	21.3	1.36	34.5	2.21	56.1
UT-JCFX90-0808 <sup>DS</sup>	38425-0808	20419743	13/32	3/4-16	11/16	17.5	7/8	22.2	7/8	1.09	27.7	1.54	39.1	2.54	64.5
UT-JCFX90-1010 <sup>DS</sup>	38425-1010	20419744	1/2	7/8-14	3/4	19.1	1	25.4	1	1.25	31.8	1.91	48.5	2.97	75.4
UT-JCFX90-1212	38425-1212	20419535	5/8	1 1/8-12	7/8	22.2	1 1/4	31.8	1 1/8	1.81	46.0	2.44	62.0	3.58	90.9
UT-JCFX90-1616	38425-1616	20419537	7/8	1 1/8-12	1 1/4	31.8	1 1/2	38.1	1 1/8	2.16	54.9	2.66	67.6	3.72	94.5

DS = Dual Seat (Connects to either SAE 45° or JIC 37° male fitting.)

## SAE 45° J512 Flare

Female / Swivel



Part Number	Product Number	SAP Number											
			Hose ID	Thread Size (A)	Hex 1 Wrench Size	Hex 2 Wrench Size	(S) Socket Wrench Size	Cut-Off (C)	Length (L)				
			in.		in.	mm	in.	mm	in.	mm			
UTSFFX-0606	38775-0606	20419782	5/16	5/8-18	3/4	19.1	3/4	19.1	3/4	1.28	32.5	2.13	54.1
UTSFFX-1212	38775-1212	20419784	5/8	1 1/8-14	1 1/4	31.8	1 1/4	31.8	1 1/8	1.80	45.7	2.94	74.7

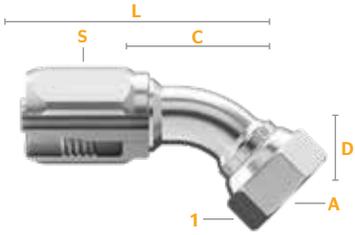


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**Section 8**  
UT Fittings

**FITTINGS**



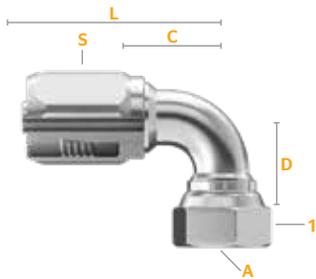


## SAE 45° J512 Flare

Female / 45° Elbow / Swivel



Part Number	Product Number	SAP Number	Hose ID	Thread Size (A)	Hex 1		Hex 2		(S) Socket Wrench Size	Drop (D)		Cut-Off (C)		Length (L)	
					Wrench Size	Wrench Size	Wrench Size	Wrench Size		in.	mm	in.	mm	in.	mm
UT-SFFX45-0606	38777-0606	20419748	5/16	5/8-18	1/2	12.7	3/4	19.1	3/4	0.41	10.4	1.48	37.6	2.33	59.2
UT-SFFX45-1212	38777-1212	20419752	5/8	1 1/6-14	7/8	22.2	1 1/4	31.8	1 1/8	0.78	19.8	2.49	63.2	3.63	92.2



## SAE 45° J512 Flare

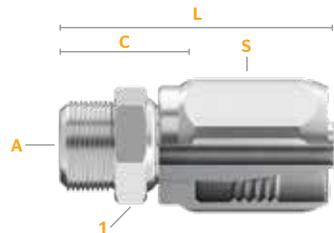
Female / 90° Elbow / Swivel



Part Number	Product Number	SAP Number	Hose ID	Thread Size (A)	Hex 1		Hex 2		(S) Socket Wrench Size	Drop (D)		Cut-Off (C)		Length (L)	
					Wrench Size	Wrench Size	Wrench Size	Wrench Size		in.	mm	in.	mm	in.	mm
UT-SFFX90-0606	38780-0606	20419539	5/16	5/8-18	1/2	12.7	3/4	19.1	3/4	0.84	21.3	1.36	34.5	2.21	56.1
UT-SFFX90-1212	38780-1212	20419536	5/8	1 1/6-14	7/8	22.2	1 1/4	31.8	1 1/8	1.81	46.0	2.44	62.0	3.58	90.9

## SAE 45° Inverted Flare

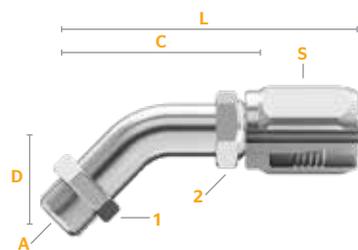
Male / Swivel



Part Number	Product Number	SAP Number											
			Hose ID	Thread Size (A)	Hex 1 Wrench Size	Hex 2 Wrench Size	(S) Socket Wrench Size	Cut-Off (C)	Length (L)				
			in.		in.	mm	in.	mm	in.	mm	in.	mm	
UTSIMX-0404	38800-0404	20419716	3/16	7/16-24	1/2	12.7	7/16	11.1	9/16	1.33	33.8	2.05	52.1
UTSIMX-0505	38800-0505	20419717	1/4	1/2-20	1/2	12.7	1/2	12.7	5/8	1.45	36.8	2.26	57.4
UTSIMX-0605	38800-0605	20419718	5/16	1/2-20	1/2	12.7	1/2	12.7	3/4	1.54	39.1	2.39	60.7
UTSIMX-0606	38800-0606	20419719	5/16	5/8-18	1/2	12.7	5/8	15.9	3/4	1.86	47.2	2.71	68.8
UTSIMX-0808	38800-0808	20419740	13/32	3/4-18	11/16	17.5	3/4	19.1	7/8	2.24	56.9	3.24	82.3

## SAE 45° Inverted Flare

Male / 45° Elbow / Swivel



Part Number	Product Number	SAP Number													
			Hose ID	Thread Size (A)	Hex 1 Wrench Size	Hex 2 Wrench Size	(S) Socket Wrench Size	Drop (D)	Cut-Off (C)	Length (L)					
			in.		in.	mm	in.	mm	in.	mm	in.	mm			
UTSIMX45-0606	38810-0606	20419640	5/16	5/8-18	1/2	12.7	5/8	15.9	3/4	0.84	21.3	2.94	74.7	3.79	96.3
UTSIMX45-0808	38810-0808	20419741	13/32	3/4-18	1 1/16	17.5	3/4	19.1	7/8	1.09	27.7	3.24	82.3	4.24	107.7

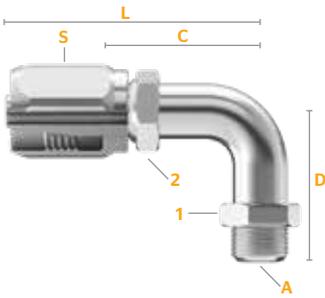


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**Section 8**  
UT Fittings

**FITTINGS**



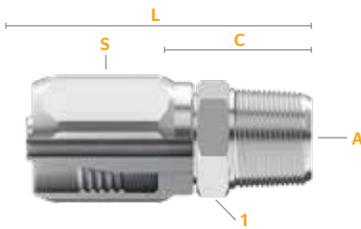


## SAE 45° Inverted Flare (SAE J514)

Male / 90° Elbow / Swivel

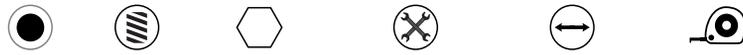


Part Number	Product Number	SAP Number	Hose ID	Thread Size (A)	Hex 1 Wrench Size	Hex 2 Wrench Size	(S) Socket Wrench Size	Drop (D)		Cut-Off (C)		Length (L)			
			in.		in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	
UTSIMX90-0404	38815-0404	20419641	3/16	7/16-24	1/2	12.7	7/16	11.1	9/16	1.25	31.8	1.33	33.8	2.05	52.1
UTSIMX90-0505	38815-0505	20419642	1/4	1/2-20	1/2	12.7	1/2	12.7	5/8	1.50	38.1	1.46	37.1	2.25	57.2
UTSIMX90-0605	38815-0605	20419643	5/16	1/2-20	1/2	12.7	1/2	12.7	3/4	1.50	38.1	1.54	39.1	2.39	60.7
UTSIMX90-0606	38815-0606	20419644	5/16	5/8-18	1/2	12.7	5/8	15.9	3/4	1.63	41.4	1.86	47.2	2.71	68.8
UTSIMX90-0808	38815-0808	20419714	13/32	3/4-18	11/16	17.5	3/4	19.1	7/8	2.00	50.8	2.24	56.9	3.24	82.3



## NPTF

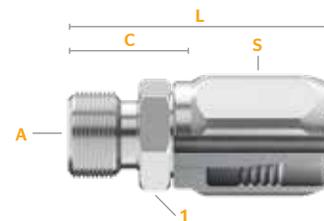
Male



Part Number	Product Number	SAP Number	Hose ID	Thread Size (A)	Hex 1 Wrench Size	(S) Socket Wrench Size	Cut-Off (C)		Length (L)		
			in.		in.	mm	in.	in.	mm	in.	mm
UT-NPM-0402	38615-0402	20419753	3/16	1/8-27	1/2	12.7	9/16	0.81	20.6	1.53	38.9
UT-NPM-0404	38615-0404	20419754	3/16	1/4-18	9/16	14.3	9/16	1.03	26.2	1.75	44.5
UT-NPM-0504	38615-0504	20419755	1/4	1/4-18	9/16	14.3	5/8	0.96	24.4	1.76	44.7
UT-NPM-0604	38615-0604	20419756	5/16	1/4-18	9/16	14.3	3/4	1.00	25.4	1.85	47.0
UT-NPM-0606	38615-0606	20419757	5/16	3/8-18	11/16	17.5	3/4	1.04	26.4	1.89	48.0
UT-NPM-0806	38615-0806	20419758	13/32	3/8-18	11/16	17.5	7/8	1.19	30.2	2.19	55.6
UT-NPM-0808	38615-0808	20419759	13/32	1/2-14	7/8	22.2	7/8	1.29	32.8	2.29	58.2
UT-NPM-1008	38615-1008	20419770	1/2	1/2-14	7/8	22.2	1	1.31	33.3	2.38	60.5
UT-NPM-1212	38615-1212	20419771	5/8	3/4-14	1 1/16	27.0	1 1/8	1.44	36.6	2.59	65.8
UT-NPM-1612	38615-1612	20419773	7/8	3/4-14	1 1/16	27.0	1 3/8	1.43	36.3	2.49	63.2
UT-NPM-1616	38615-1616	20419772	7/8	1-11 1/2	1 3/8	34.9	1 3/8	1.74	44.2	2.80	71.1
UT-NPM-2020	38615-2020	20419774	1 1/8	1 1/4-11 1/2	1 3/8	44.5	1 3/8	1.80	45.7	2.92	74.2

## SAE J514 Flareless Tube Fittings

Male

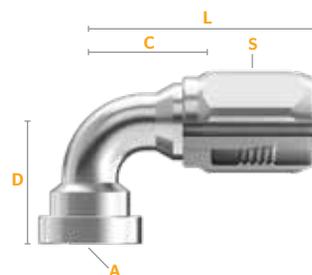


Part Number	Product Number	SAP Number											
			Hose ID	Thread Size (A)	Hex 1 Wrench Size	Hex 2 Wrench Size	(S) Socket Wrench Size	Cut-Off (C)	Length (L)				
			in.		in.	mm	in.	mm	in.	in.	mm	in.	mm
UTFTM-0404	38360-0404	20419775	3/16	7/16-20	1/2	12.7	9/16	14.3	9/16	0.96	24.5	1.68	42.7
UTFTM-0505	38360-0505	20419777	1/4	1/2-20	9/16	14.3	5/8	15.9	5/8	0.92	23.4	1.72	43.7
UTFTM-0604	38360-0604	20419778	5/16	7/16-20	9/16	14.3	9/16	14.3	3/4	1.01	25.7	2.12	53.8
UTFTM-0606	38360-0606	20419779	5/16	5/8-18	5/8	15.9	11/16	17.5	3/4	1.03	26.2	1.87	47.6
UTFTM-0808	38360-0808	20419780	13/32	3/4-16	13/16	20.6	7/8	22.2	7/8	1.15	29.2	2.15	54.6
UTFTM-1010	38360-1010	20419781	1/2	7/8-14	15/16	23.8	1	25.4	1	1.27	32.3	2.34	59.6

All Fittings come with Nut and Sleeve

## Flange Engine Oil Connection (Two Bolt)

90° Elbow

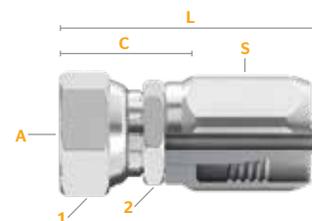


Part Number	Product Number	SAP Number													
			Hose ID	Thread Size (A)	Hex 1 Wrench Size	Hex 2 Wrench Size	(S) Socket Wrench Size	Drop (D)	Cut-Off (C)	Length (L)					
			in.		in.	mm	in.	mm	in.	in.	mm	in.	mm	in.	mm
UTFL90EOC-2020	38351-2020	20419745	1 1/4	1 1/4	1 1/16	39.7	1 1/8	2.50	63.5	3.82	97.0	4.95	125.7	Y	52.1

UTFL90EOC-2020 includes engine connection flange clamp plate

## PTT 30°

Female / Swivel



Part Number	Product Number	SAP Number											
			Hose ID	Thread Size (A)	Hex 1 Wrench Size	Hex 2 Wrench Size	(S) Socket Wrench Size	Cut-Off (C)	Length (L)				
			in.		in.	mm	in.	mm	in.	in.	mm	in.	mm
UTPTTFX-1616	38745-1616	20419805	7/8	1 1/16-14	1 1/2	38.1	1 1/2	38.1	1 3/8	1.68	42.7	2.74	69.6



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**Section 8**  
UT Fittings

**FITTINGS**



# SECTION 9 - SPECIALTY FITTINGS

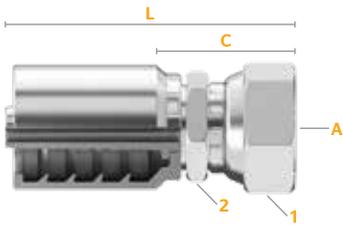
This section lists all fittings compatible with the following hose:

Hose	Description	Compatible Dash Size	Hose	Description	Compatible Dash Size
NSFX	Saflex®	All hose dash sizes	IG	Insta-Grip™ 300 (Push-On)	All hose dash sizes
Hot Oilier	Prospector™ Hot Oilier	All hose dash sizes	IGHT	Insta-Grip™ HT 300 (Push-On)	All hose dash sizes
SGUN	Grease Gun Hose	All hose dash sizes	IGTC	Insta-Grip™ TC (Push-On)	All hose dash sizes
SHJ	Jack Hose	All hose dash sizes	FXG	FLEXAGrip™ 300 (Push-On)	All hose dash sizes

## How to Use the Fittings Table

The fittings in this section will follow a similar table structure to the one seen on this page.

Fitting dimensions and attributes are explained below.



## Fitting Name

Compatible Hose  
Fitting Description

**Compatible Hose** - The Continental hose compatible with each fitting in this section is shown immediately below the Fitting Name. **Be sure to only use the fittings shown with the compatible hose listed.**

Part Number	Product Number	SAP Number								
			Hose ID	Thread Size (A)	Hex 1 Wrench Size	Cut-Off (C)		Length (L)		
			in.		in.	mm	in.	mm	in.	mm
PB-JCFX-0404	22400-0404	20282736	1/4	7-16-20	9/16	14	0.57	14.5	1.54	39.1
PB-JCFX-0606	22400-0606	20282740	3/8	9/16-18	3/4	19	0.62	15.8	1.70	43.2
PB-JCFX-0810	22400-0810	20283093	1/2	7/8-14	1	25	0.74	18.8	1.84	46.7

## Fitting Dimensions and Attributes

**Part Number** See Hydraulic Fittings Nomenclature on page 128 for a breakdown of part number attributes

**Hose ID** The compatible Hose ID

**Tube ID** The compatible Tube ID

**Thread Size** The thread size or sizes available for a particular fitting dash size (indicated by **A** in the fitting image)

**Hex Size** The wrench size for one or both nuts on the fitting (indicated by **1** or **2** in the fitting image)

**Drop** The length of the elbow (indicated by **D** in the fitting image)

**Cut-Off** The amount of hose to be cut for a correct assembly length (indicated by **C** in the fitting image)

**Length** The overall length of the fitting

**Skive Type** For applicable fittings, a skive type will be indicated as Skive, Non-Skive or Dual-Grip

Choose fittings carefully, considering the working pressure of both the hose and fitting. The maximum working pressure of the hose assembly is the lesser of the rated working pressure of the hose and the fitting. See page 333 for the Fittings Working Pressure Guide.

## FITTINGS



## Section 9

Specialty Fittings

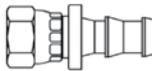
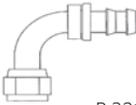
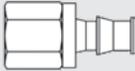
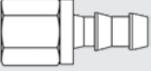
## COMPATIBLE HOSE:

NSFX SHJ IGT FXG SGUN  
SHR IG IGTC Hot Oilier

For a detailed list, please refer to your Crimp Specifications Manual.

# Specialty Fittings Overview

A complete overview of all specialty fittings found in this section.

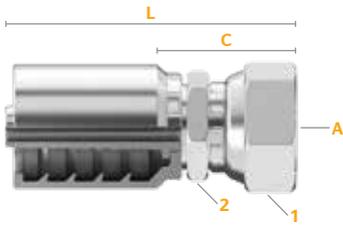
<p><b>JIC 37° Flare (SAE J514)</b> For Saflex® (NSFX) Hose Female Swivel</p>  <p>SF-JCFX P. 316</p>	<p><b>NPTF</b> For Saflex® (NSFX) Hose Male</p>  <p>SF-NPM P. 316</p>	<p><b>NPTF</b> For Saflex® (NSFX) Hose Male Swivel</p>  <p>SF-NPMX P. 316</p>	<p><b>O-Ring Boss</b> For Saflex® (NSFX) Hose Male</p>  <p>SF-OBM P. 317</p>
<p><b>O-Ring Boss</b> For Saflex® (NSFX) Hose Male Swivel</p>  <p>SF-OBMX P. 317</p>	<p><b>NPT API</b> For Prospector™ SHR Hose Male</p>  <p>B2-NPMAPI P. 318</p>	<p><b>IHUF Hammer Union</b></p>  <p>B2-IHUF P. 318</p>	<p><b>IHUM Hammer Union</b></p>  <p>B2-IHUM P. 318</p>
<p><b>NPTF</b> For Grease Gun (GG) Hose Male</p>  <p>GG-NPM P. 319</p>	<p><b>NPTF</b> For Jack Hose (SHJ/"B2") Male</p>  <p>B2-NPM P. 319</p>	<p><b>Hose Mender</b> For Push-On Brass (PB) Hose Male</p>  <p>PB-HM P. 320</p>	<p><b>JIC 37° Flare</b> For Push-On Brass (PB) Hose Female Swivel</p>  <p>PB-JCFX P. 320</p>
<p><b>JIC 37° Flare</b> For Push-On Brass (PB) Hose Female 90° Elbow Swivel</p>  <p>PB-JCFX90 P. 321</p>	<p><b>JIC 37° Flare</b> For Push-On Brass (PB) Hose Male</p>  <p>PB-JCM P. 321</p>	<p><b>NPTF</b> For Push-On Brass (PB) Hose Female</p>  <p>PB-NPF P. 322</p>	<p><b>NPTF</b> For Push-On Brass (PB) Hose Male</p>  <p>PB-NPM P. 322</p>
<p><b>NPTF</b> For Push-On Brass (PB) Hose Male 90° Elbow</p>  <p>PB-NPM90 P. 323</p>	<p><b>NPTF</b> For Push-On Brass (PB) Hose Male Swivel</p>  <p>PB-NPMX P. 323</p>	<p><b>SAE 45° Flare</b> For Push-On Brass (PB) Hose Female Swivel</p>  <p>PB-SFFX P. 324</p>	<p><b>SAE 45° Flare</b> For Push-On Brass (PB) Hose Male</p>  <p>PB-SFM P. 324</p>
<p><b>SAE 45° Inverted Flare</b> For Push-On Brass (PB) Hose Female</p>  <p>PB-SIF P. 325</p>	<p><b>SAE 45° Inverted Flare</b> For Push-On Brass (PB) Hose Male</p>  <p>PB-SIM P. 325</p>		



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**Section 9**  
Specialty Fittings

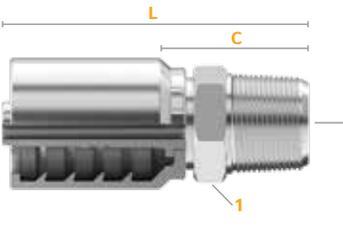
**FITTINGS**  
**Continental**



## JIC 37° Flare (SAE J514)

SF (NSFX) fittings for Saflex®  
Female / Swivel

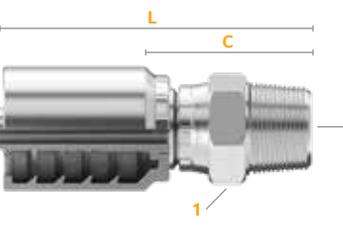
Part Number	Product Number	SAP Number								
			Hose ID	Thread Size (A)	Hex 1 Wrench Size		Cut-Off (C)		Length (L)	
			in.		in.	mm	in.	mm	in.	mm
SF-JCFX-0606	26400-0606	20766318	3/8	9/16-18	1 1/8	27	Contact Continental			



## NPTF

SF (NSFX) fittings for Saflex®  
Male

Part Number	Product Number	SAP Number								
			Hose ID	Thread Size (A)	Hex 1 Wrench Size		Cut-Off (C)		Length (L)	
			in.		in.	mm	in.	mm	in.	mm
SF-NPM-0606	26615-0606	20285743	3/8	3/8-18	3/4	19	1.24	31.5	2.58	65.5
SF-NPM-0608	26615-0608	20413965	3/8	1/2-14	7/8	22	1.59	40.5	2.86	72.6
SF-NPM-0808	26615-0808	20352115	1/2	1/2-14	7/8	22	1.57	40.0	3.04	77.2



## NPTF

SF (NSFX) fittings for Saflex®  
Male / Swivel

Part Number	Product Number	SAP Number								
			Hose ID	Thread Size (A)	Hex 1 Wrench Size		Cut-Off (C)		Length (L)	
			in.		in.	mm	in.	mm	in.	mm
SF-NPMX-0606	26645-0606	20347559	3/8	3/8-18	3/4	19	1.83	46.6	3.15	79.9
SF-NPMX-0808	26645-0808	20414341	1/2	1/2-14	7/8	22	1.76	44.6	3.26	82.8

# FITTINGS



## Section 9

Specialty Fittings

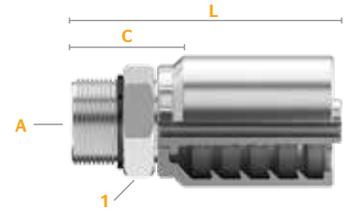
### COMPATIBLE HOSE:

NSFX	SHJ	IGHT	FXG	SGUN
SHR	IG	IGTC	Hot Oilier	

For a detailed list, please refer to your Crimp Specifications Manual.

## O-Ring Boss

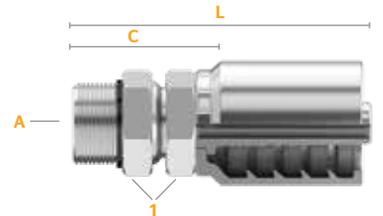
SF (NSFX) fittings for Saflex®  
Male



Part Number	Product Number	SAP Number								
			Hose ID	Thread Size (A)	Hex 1 Wrench Size		Cut-Off (C)	Length (L)		
			in.		in.	mm	in.	mm	in.	mm
SF-OBM-0608	26670-0608	20766320	3/8	3/4-16	7/8	22			Contact Continental	

## O-Ring Boss

SF (NSFX) fittings for Saflex®  
Male / Swivel



Part Number	Product Number	SAP Number								
			Hose ID	Thread Size (A)	Hex 1 Wrench Size		Cut-Off (C)	Length (L)		
			in.		in.	mm	in.	mm	in.	mm
SF-OBMX-0606	26680-0608	20766322	3/8	9/16-18	7/8	22			Contact Continental	
SF-OBMX-0608	26680-0608	20352114	3/8	3/4-16	7/8	22	1.73	44.0	3.00	76.3

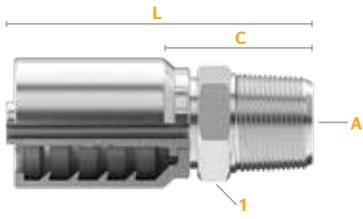


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**Section 9**  
Specialty Fittings

**FITTINGS**

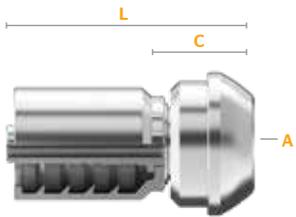




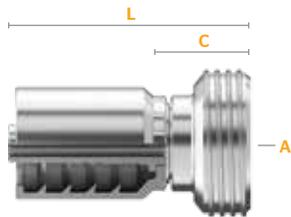
## NPT API

For Prospector™ Slim Hole Rotary  
Male

Part Number	Product Number	SAP Number	Hose ID		Thread Size (A)		Hex 1 Wrench Size		Cut-Off (C)		Length (L)	
			in.	mm	in.	mm	in.	mm	in.	mm		
B2-NPMAPI-2424	28617-2424	20636530	1 ½	38.1	2-11 ½	51.8	2	51	3.072	78.0	5.4	137.2



IHUF Fitting



IHUM Fitting

## NPT API Hammer Union

For Prospector™ Hot Oiler  
Male

Part Number	Product Number	SAP Number	Hose ID		Thread Size (A)		Cut-Off (C)		Length (L)	
			in.	mm	in.	mm	in.	mm		
B2-IHUF1502-2432	28390-2432	20815350	1 ½	38.1	ACME-2G, 3 TPI	2.64	67.1	4.81	122.2	
B2-IHUM1502-2432	28395-2432	20815351	1 ½	38.1	ACME-2G, 3 TPI	2.38	60.53	4.88	123.9	

# FITTINGS



## Section 9

Specialty Fittings

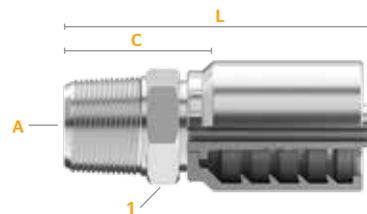
### COMPATIBLE HOSE:

NSFX	SHJ	IGHT	FXG	SGUN
SHR	IG	IGTC	Hot Oiler	

For a detailed list, please refer to your Crimp Specifications Manual.

## NPTF

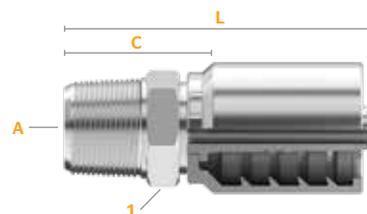
### GG (SGUN) fittings for Grease Gun Hose Male



Part Number	Product Number	SAP Number								
			Hose ID	Thread Size (A)	Hex 1 Wrench Size		Cut-Off (C)		Length (L)	
			in.		in.	mm	in.	mm	in.	mm
GG-NPM-0302	20615-0302	20288023	3/16	1/8-27	5/8	15	0.38	9.7	1.38	35.1

## NPTF

### B2 (SHJ) fittings for Jack Hose Male



Part Number	Product Number	SAP Number								
			Hose ID	Thread Size (A)	Hex 1 Wrench Size		Cut-Off (C)		Length (L)	
			in.		in.	mm	in.	mm	in.	mm
B2-NPM-0402	14615-0402	20242110	1/4	1/8-27	9/16	14	0.88	22.3	1.85	47.1
B2-NPM-0404	14615-0404	20242111	1/4	1/4-18	11/16	17	1.06	27.0	2.15	54.6
B2-NPM-0404S	14615-0404S	20286649	1/4	1/4-18	11/16	17	1.06	27.0	2.15	54.6
B2-NPM-0406	14615-0406	20242109	1/4	3/8-18	3/4	19	1.04	26.3	2.01	51.1
B2-NPM-0408	14615-0408	20242115	1/4	1/2-14	7/8	22	1.31	33.3	2.29	58.1
B2-NPM-0604	14615-0604	20242067	3/8	1/4-18	11/16	17	1.04	26.3	2.09	53.0
B2-NPM-0606	14615-0606	20242069	3/8	3/8-18	3/4	19	1.04	26.4	2.09	53.1
B2-NPM-0606S	14615-0606S	20286830	3/8	3/8-18			1.10	27.9	2.05	52.0
B2-NPM-0608	14615-0608	20242079	3/8	1/2-14	7/8	22	1.27	32.3	2.32	59.0

S=Stainless Steel (See Fitting Identification in Appendix for more information.)

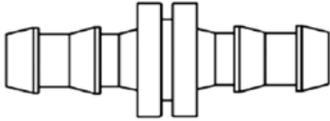


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**Section 9**  
Specialty Fittings

**FITTINGS**



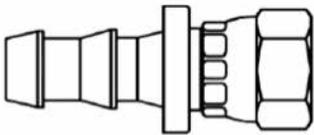


## Hose Mender

PB (Push-On Brass) fittings for Insta-Grip™ and FXG  
Male



Part Number	Product Number	SAP Number	Hose ID	Cut-Off (C)		Length (L)	
			in.	in.	mm	in.	mm
PB-HM-0404	22380-0404	20282715	1/4	0.06	1.5	1.80	45.7
PB-HM-0505	22380-0505	20282716	5/16	0.06	1.5	1.80	45.7
PB-HM-0606	22380-0606	20282717	3/8	0.06	1.5	2.00	50.8
PB-HM-0808	22380-0808	20282718	1/2	0.06	1.5	2.00	50.8
PB-HM-1010	22380-1010	20283080	5/8	0.13	3.3	3.03	77.0
PB-HM-1212	22380-1212	20283081	3/4	0.13	3.3	3.03	77.0



## JIC 37° Flare

PB (Push-On Brass) fittings for Insta-Grip™ and FXG  
Female / Swivel



Part Number	Product Number	SAP Number	Hose ID	Thread Size (A)	Hex 1 Wrench Size		Cut-Off (C)		Length (L)	
			in.		in.	mm	in.	mm	in.	mm
PB-JCFX-0404	22400-0404	20282736	1/4	7-16-20	9/16	14	0.57	14.5	1.54	39.1
PB-JCFX-0405	22400-0405	20283092	1/4	1/2-20	5/8	16	0.60	15.1	1.57	39.9
PB-JCFX-0406	22400-0406	20282738	1/4	9/16-18	3/4	19	0.62	15.8	1.60	40.6
PB-JCFX-0605	22400-0605	20282739	3/8	1/2-20	5/8	16	0.60	15.1	1.67	42.4
PB-JCFX-0606	22400-0606	20282740	3/8	9/16-18	3/4	19	0.62	15.8	1.70	43.2
PB-JCFX-0608	22400-0608	20282741	3/8	3/4-16	7/8	22	0.75	19.0	1.85	47.0
PB-JCFX-0808	22400-0808	20282742	1/2	3/4-16	7/8	22	0.69	17.5	1.78	45.2
PB-JCFX-0810	22400-0810	20283093	1/2	7/8-14	1	25	0.74	18.8	1.84	46.7
PB-JCFX-1008	22400-1008	20283094	5/8	3/4-16	7/8	22	0.70	17.7	2.27	57.7
PB-JCFX-1010	22400-1010	20282745	5/8	7/8-14	1	25	0.75	19.0	2.33	59.2
PB-JCFX-1212	22400-1212	20283095	3/4	1 1/8-12	1 1/4	32	0.81	20.5	2.40	61.0
PB-JCFX-1616	22400-1616	20466036	1	1 5/8-12	1 1/2	38	1.13	28.7	2.57	65.3

## FITTINGS



### Section 9

Specialty Fittings

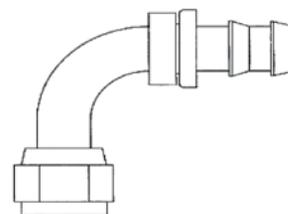
#### COMPATIBLE HOSE:

NSFX SHJ IGHF FXG SGUN  
SHR IG IGTG Hot Oilier

For a detailed list, please refer to your Crimp Specifications Manual.

## JIC 37° Flare

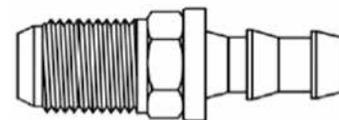
PB (Push-On Brass) fittings for Insta-Grip™ and FXG  
Female / 90° Elbow / Swivel



Part Number	Product Number	SAP Number								
			Hose ID	Thread Size (A)	Hex 1 Wrench Size		Cut-Off (C)		Drop (D)	
			in.		in.	mm	in.	mm	in.	mm
PB-JCFX90-0606	22425-0606	20450811	3/8	9/16-18	3/4	19	0.87	22.0	1.02	26.0

## JIC 37° Flare

PB (Push-On Brass) fittings for Insta-Grip™ and FXG  
Male



Part Number	Product Number	SAP Number								
			Hose ID	Thread Size (A)	Hex 1 Wrench Size		Cut-Off (C)		Length (L)	
			in.		in.	mm	in.	mm	in.	mm
PB-JCM-0404	22450-0404	20282768	1/4	716-20	1/2	13	0.70	17.8	1.57	39.9
PB-JCM-0406	22450-0406	20289525	1/4	9/16-18	5/8	16	0.77	19.6	1.64	41.7
PB-JCM-0606	22450-0606	20282769	3/8	9/16-18	5/8	16	0.81	20.6	1.78	45.2
PB-JCM-0808	22450-0808	20282771	1/2	3/4-16	3/4	19	1.00	25.4	1.97	50.0

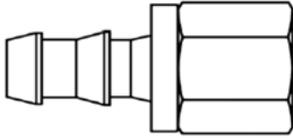


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**Section 9**  
Specialty Fittings

**FITTINGS**

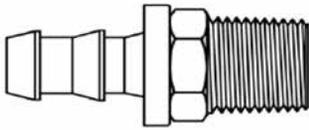




## NPTF

PB (Push-On Brass) fittings for Insta-Grip™ and FXG  
Female

Part Number	Product Number	SAP Number								
			Hose ID	Thread Size (A)	Hex 1 Wrench Size		Cut-Off (C)		Length (L)	
			in.		in.	mm	in.	mm	in.	mm
PB-NPF-0402	22600-0402	20289527	1/4	1/8-27	1/2	13	0.41	10.4	1.35	34.3
PB-NPF-0404	22600-0404	20282772	1/4	1/4-18	5/8	16	0.54	13.8	1.51	38.4
PB-NPF-0504	22600-0504	20289528	5/16	1/4-18	5/8	16	0.54	13.8	1.51	38.4
PB-NPF-0604	22600-0604	20283105	3/8	1/4-18	5/8	16	0.54	13.8	1.61	40.9
PB-NPF-0606	22600-0606	20282774	3/8	3/8-18	3/4	19	0.56	14.3	1.63	41.4
PB-NPF-0806	22600-0806	20282775	1/2	3/8-18	3/4	19	0.56	14.3	1.63	41.4
PB-NPF-0808	22600-0808	20282776	1/2	1/2-14	15/16	24	0.68	17.3	1.77	45.0



## NPTF

PB (Push-On Brass) fittings for Insta-Grip™ and FXG  
Male

Part Number	Product Number	SAP Number								
			Hose ID	Thread Size (A)	Hex 1 Wrench Size		Cut-Off (C)		Length (L)	
			in.		in.	mm	in.	mm	in.	mm
PB-NPM-0402	22615-0402	20283096	1/4	1/8-27	1/2	13	0.56	14.2	1.43	36.3
PB-NPM-0404	22615-0404	20282748	1/4	1/4-18	9/16	14	0.79	20.1	1.66	42.2
PB-NPM-0406	22615-0406	20282749	1/4	3/8-18	11/16	17	0.79	20.1	1.66	42.2
PB-NPM-0504	22615-0504	20289529	5/16	1/4-18	9/16	14	0.79	20.1	1.66	42.2
PB-NPM-0602	22615-0602	20282750	3/8	1/8-27	1/2	13	0.56	14.2	1.53	38.9
PB-NPM-0604	22615-0604	20283097	3/8	1/4-18	9/16	14	0.79	20.1	1.76	44.7
PB-NPM-0606	22615-0606	20282752	3/8	3/8-18	11/16	17	0.79	20.1	1.76	44.7
PB-NPM-0608	22615-0608	20282753	3/8	1/2-14	7/8	22	1.00	25.4	1.97	50.0
PB-NPM-0804	22615-0804	20283098	1/2	1/4-18	11/16	17	0.79	20.1	1.76	44.7
PB-NPM-0806	22615-0806	20282755	1/2	3/8-18	11/16	17	0.79	20.1	1.76	44.7
PB-NPM-0808	22615-0808	20282756	1/2	1/2-14	7/8	22	1.00	25.4	1.97	50.0
PB-NPM-0812	22615-0812	20283099	1/2	3/4-14	1 1/16	27	1.00	25.4	1.97	50.0
PB-NPM-1006	22615-1006	20289540	5/8	3/8-18	3/4	19	0.89	22.6	2.34	59.4
PB-NPM-1008	22615-1008	20283100	5/8	1/2-14	7/8	22	1.00	25.4	2.45	62.2
PB-NPM-1012	22615-1012	20282759	5/8	3/4-14	1 1/16	27	1.00	25.4	2.45	62.2
PB-NPM-1208	22615-1208	20283101	3/4	1/2-14	7/8	22	1.00	25.4	2.45	62.2
PB-NPM-1212	22615-1212	20283102	3/4	3/4-14	1 1/16	27	1.00	25.4	2.45	62.2

## FITTINGS



### Section 9

Specialty Fittings

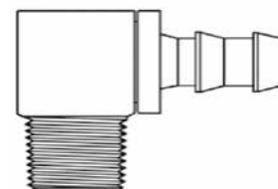
#### COMPATIBLE HOSE:

NSFX SHJ IGT SHR IG IGTC FXG SGUN  
Hot Oilier

For a detailed list, please refer to your Crimp Specifications Manual.

## NPTF

### PB (Push-On Brass) fittings for Insta-Grip™ and FXG Male / 90° Elbow



Part Number	Product Number	SAP Number						
			Hose ID	Thread Size (A)	Cut-Off (C)		Drop (D)	
			in.		in.	mm	in.	mm
PB-NPM90-0402	22625-0402	20283106	1/4	1/8-27	0.08	2.1	0.75	19.1
PB-NPM90-0404	22625-0404	20283107	1/4	1/4-18	0.13	3.2	0.95	24.1
PB-NPM90-0602	22625-0602	20289541	3/8	1/8-27	0.11	2.7	0.75	19.1
PB-NPM90-0604	22625-0604	20282779	3/8	1/4-18	0.12	3.1	0.90	22.9
PB-NPM90-0606	22625-0606	20282780	3/8	3/8-18	0.17	4.2	0.87	22.1
PB-NPM90-0806	22625-0806	20282782	1/2	3/8-18	0.40	10.1	1.19	30.2
PB-NPM90-0808	22625-0808	20283109	1/2	1/2-14	0.40	10.1	1.19	30.2
PB-NPM90-1008	22625-1008	20289542	5/8	1/2-14	0.40	10.1	1.19	30.2
PB-NPM90-1012	22625-1012	20289543	5/8	3/4-14	0.47	11.8	1.28	32.5
PB-NPM90-1212	22625-1212	20282784	3/4	3/4-14	0.47	11.8	1.28	32.5

## NPTF

### PB (Push-On Brass) fittings for Insta-Grip™ and FXG Male / Swivel



Part Number	Product Number	SAP Number								
			Hose ID	Thread Size (A)	Hex 1 Wrench Size		Cut-Off (C)		Length (L)	
			in.		in.	mm	in.	mm	in.	mm
PB-NPMX-0404	22645-0404	20282762	1/4	1/4-18	9/16	14	1.15	29.2	2.02	51.3
PB-NPMX-0604	22645-0604	20283103	3/8	1/4-18	9/16	14	1.15	29.2	2.12	53.9
PB-NPMX-0606	22645-0606	20282764	3/8	3/8-18	11/16	17	1.15	29.2	2.12	53.9
PB-NPMX-0806	22645-0806	20282765	1/2	3/8-18	11/16	17	1.15	29.2	2.12	53.9
PB-NPMX-0808	22645-0808	20282766	1/2	1/2-14	7/8	22	1.36	34.5	2.33	59.2
PB-NPMX-1212	22645-1212	20283104	3/4	3/4-14	1 1/16	27	1.35	34.3	2.80	71.1

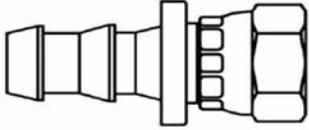


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**Section 9**  
Specialty Fittings

**FITTINGS**

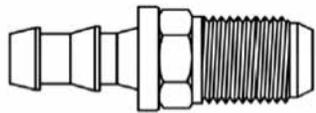




## SAE 45° Flare

PB (Push-On Brass) fittings for Insta-Grip™ and FXG  
Female / Swivel

Part Number	Product Number	SAP Number								
			Hose ID	Thread Size (A)	Hex 1 Wrench Size		Cut-Off (C)		Length (L)	
			in.		in.	mm	in.	mm	in.	mm
PB-SFFX-0405	22775-0405	20289551	1/4	1/2-20	5/8	16	0.60	15.1	1.57	39.9
PB-SFFX-0406	22775-0406	20289552	1/4	5/8-18	3/4	19	0.65	16.4	1.63	41.4
PB-SFFX-0506	22775-0506	20289553	5/16	5/8-18	3/4	19	0.65	16.4	1.63	41.4
PB-SFFX-0606	22775-0606	20282722	3/8	5/8-18	3/4	19	0.65	16.4	1.73	43.9
PB-SFFX-0608	22775-0608	20289554	3/8	3/4-16	7/8	22	0.75	19.0	1.85	47.0
PB-SFFX-0806	22775-0806	20289555	1/2	5/8-18	7/8	22	0.81	20.5	1.92	48.8
PB-SFFX-0808	22775-0808	20283083	1/2	3/4-16	7/8	22	0.64	16.2	1.72	43.7
PB-SFFX-0810	22775-0810	20289556	1/2	7/8-14	1	25	0.74	18.8	1.84	46.7
PB-SFFX-1008	22775-1008	20289557	5/8	3/4-16	7/8	22	0.70	17.7	2.27	57.7
PB-SFFX-1010	22775-1010	20283084	5/8	7/8-14	1	25	0.75	19.0	2.33	59.2
PB-SFFX-1212	22775-1212	20282725	3/4	1 1/16-14	1 1/4	32	0.82	20.9	2.42	61.5



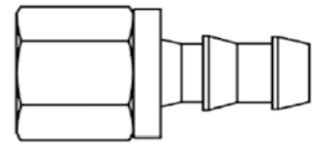
## SAE 45° Flare

PB (Push-On Brass) fittings for Insta-Grip™ and FXG  
Male

Part Number	Product Number	SAP Number								
			Hose ID	Thread Size (A)	Hex 1 Wrench Size		Cut-Off (C)		Length (L)	
			in.		in.	mm	in.	mm	in.	mm
PB-SFM-0606	22785-0606	20282770	3/8	5/8-18	5/8	16	0.86	21.8	1.83	46.5

## SAE 45° Inverted Flare

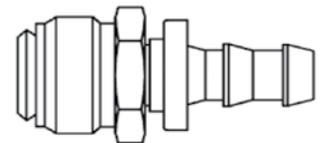
PB (Push-On Brass) fittings for Insta-Grip™ and FXG  
Female



Part Number	Product Number	SAP Number								
			Hose ID	Thread Size (A)	Hex 1 Wrench Size		Cut-Off (C)		Length (L)	
			in.		in.	mm	in.	mm	in.	mm
PB-SIF-0403	22790-0403	20289544	1/4	3/8-24	1/2	13	0.25	6.4	1.12	28.5
PB-SIF-0404	22790-0404	20283090	1/4	7/16-24	5/8	16	0.23	5.8	1.14	29.0
PB-SIF-0405	22790-0405	20289545	1/4	1/2-20	9/16	14	0.26	6.7	1.18	30.0
PB-SIF-0605	22790-0605	20289546	3/8	1/2-20	5/8	16	0.30	7.6	1.32	33.5
PB-SIF-0606	22790-0606	20282734	3/8	5/8-18	3/4	19	0.32	8.2	1.35	34.3
PB-SIF-0808	22790-0808	20283091	1/2	3/4-18	7/8	22	0.65	16.4	1.73	43.9

## SAE 45° Inverted Flare

PB (Push-On Brass) fittings for Insta-Grip™ and FXG  
Male



Part Number	Product Number	SAP Number								
			Hose ID	Thread Size (A)	Hex 1 Wrench Size		Cut-Off (C)		Length (L)	
			in.		in.	mm	in.	mm	in.	mm
PB-SIM-0403	22795-0403	20289548	1/4	3/8-24	7/16	11	0.69	17.5	1.56	39.6
PB-SIM-0404	22795-0404	20283085	1/4	7/16-24	7/16	11	0.69	17.5	1.56	39.6
PB-SIM-0405	22795-0405	20283086	1/4	1/2-20	1/2	13	0.75	19.1	1.62	41.2
PB-SIM-0505	22795-0505	20283087	5/16	1/2-20	1/2	13	0.75	19.1	1.62	41.2
PB-SIM-0506	22795-0506	20283088	5/16	5/8-18	5/8	16	0.76	19.3	1.63	41.4
PB-SIM-0605	22795-0605	20282730	3/8	1/2-20	1/2	13	0.75	19.1	1.72	43.7
PB-SIM-0606	22795-0606	20282731	3/8	5/8-18	5/8	16	0.79	20.1	1.76	44.7
PB-SIM-0808	22795-0808	20283089	1/2	3/4-18	3/4	19	0.87	22.1	1.84	46.7
PB-SIM-1010	22795-1010	20289550	5/8	7/8-18	1	25	0.90	22.9	2.35	59.7



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**Section 9**  
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**FITTINGS**



# SECTION 10 - FERRULES

## Fitting Ferrules

This section lists dimensions and attributes for 7 Uni-Crimp™ and 2 Dual-Grip style ferrules.

### Uni-Crimp™ Fitting Ferrules

The Uni-Crimp™ style ferrules can be non-skive or external skive, depending on the hose family.

Uni-Crimp™ ferrules are to be used only with Uni-Crimp™ style stems.

### Dual-Grip Fitting Ferrules

The Dual-Grip style ferrules are external and internal skive and are to be used only with Dual-Grip style stems.

## UC Fittings Overview

A complete overview of all UC fittings found in this section.

### Uni-Crimp™ UCF2



UCF2

P. 327

### Uni-Crimp™ UCF3



UCF3

P. 327

### Uni-Crimp™ UCF6



UCF6

P. 328

### Uni-Crimp™ UCF8



UCF8

P. 329

### Uni-Crimp™ UCF9



UCF9

P. 329

### Uni-Crimp™ UCF10



UCF10

P. 330

### Uni-Crimp™ UCF11



UCF11

P. 330

### Dual-Grip DGF1



DGF1

P. 331

### Dual-Grip DGF2

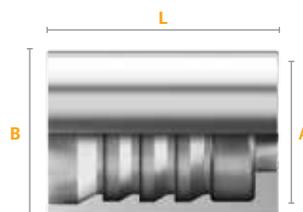


DGF2

P. 331

## Uni-Crimp™ UCF2 Ferrule

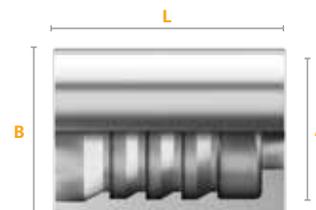
Compatible with SR6, HR6, BOP 3000



Part Number	SAP Number	Hose ID	Ferrule Inside Diameter (A)			Ferrule Outside Diameter (B)		Ferrule Length (L)	
			in.	in.	mm	in.	mm	in.	mm
UCF2-03	20242268	3/16	0.49	12.5	0.75	19.1	0.94	23.9	
UCF2-04	20242276	1/4	0.55	14.0	0.83	21.0	1.04	26.3	
UCF2-05	20242272	5/16	0.62	15.7	0.87	22.0	1.04	26.5	
UCF2-06	20242273	3/8	0.71	18.1	0.98	25.0	1.12	28.5	
UCF2-08	20242270	1/2	0.84	21.4	1.14	29.0	1.37	34.7	
UCF2-08S	20575005	1/2	0.84	21.4	1.14	29.0	1.37	34.7	
UCF2-10	20242275	5/8	0.98	25.0	1.26	32.0	1.48	37.5	
UCF2-12	20242264	3/4	1.13	28.8	1.42	36.0	1.62	41.2	
UCF2-16	20242267	1	1.44	36.5	1.77	45.0	1.87	47.6	

## Uni-Crimp™ UCF3 Ferrule

Compatible with BOP 5000



Part Number	SAP Number	Hose ID	Ferrule Inside Diameter (A)			Ferrule Outside Diameter (B)		Ferrule Length (L)	
			in.	in.	mm	in.	mm	in.	mm
UCF3-06	20241235	3/8	0.72	18.4	0.98	25.0	1.12	28.5	
UCF3-08	20671286	1/2	0.84	21.4	1.14	29.0	1.37	34.7	
UCF3-12	20668542	3/8	1.17	29.8	1.46	37.0	1.64	41.7	

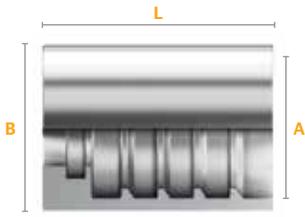


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**Section 10**  
Ferrules

**FITTINGS**





## Uni-Crimp™ UCF6 Ferrule

Compatible with

SR1SN, SR2SN, SFS (Hose dash size -03)

SR3, HR4, SR5, DR5 (Hose dash sizes under -32)

Part Number	SAP Number	Hose ID	Ferrule Inside Diameter (A)		Ferrule Outside Diameter (B)		Ferrule Length (L)	
			in.	mm	in.	mm	in.	mm
UCF6-03	20288135	3/16	0.56	14.2	0.79	20.0	0.96	24.3
UCF6-04	20242277	1/4	0.64	16.2	0.84	21.3	1.04	26.3
UCF6-04S	20879832	1/4	0.64	16.2	0.84	21.3	1.04	26.3
UCF6-05	20241236	5/16	0.71	18.0	0.98	25.0	1.04	26.3
UCF6-06	20242282	3/8	0.82	20.9	0.98	25.0	1.07	27.2
UCF6-06S	20873144	3/8	0.82	20.9	0.98	25.0	1.07	27.2
UCF6-08	20242269	1/2	0.96	24.4	1.142	29.0	1.29	32.8
UCF6-08S	20879833	1/2	0.96	24.4	1.142	29.0	1.29	32.8
UCF6-10	20283401	5/8	1.09	27.7	1.339	34.0	1.40	35.6
UCF6-12	20242279	3/4	1.25	31.8	1.49	38.0	1.52	38.6
UCF6-12S	20777819	3/4	1.25	31.8	1.49	38.0	1.52	38.6
UCF6-16	20242280	1	1.65	42.0	1.97	50.0	1.79	45.4
UCF6-16S	20777819	1	1.65	42.0	1.94	49.3	1.79	45.4
UCF6-20	20242278	1¼	1.81	46.0	2.01	51.0	1.93	49.0
UCF6-20S	20676945	1¼	1.81	46.0	2.01	51.0	1.93	49.0
UCF6-24	20242274	1½	2.14	54.3	2.37	60.3	2.21	56.0
UCF6-24S	20873145	1½	2.14	54.3	2.37	60.3	2.21	56.0
UCF6-32	20242271	2	2.72	69.1	2.99	76.1	2.72	69.0
UCF6-32S	20672344	2	2.72	69.1	2.99	76.1	2.72	69.0
UCF6-40	20242263	2½	3.19	81.0	3.50	88.9	3.35	85.0

## Uni-Crimp™ UCF8 Ferrule

Compatible with SR5, DR5



Part Number	SAP Number	Hose ID	Ferrule Inside Diameter (A)		Ferrule Outside Diameter (B)		Ferrule Length (L)	
			in.	mm	in.	mm	in.	mm
UCF8-32	20289652	2	2.41	61.3	2.79	71.0	2.51	63.6

## Uni-Crimp™ UCF9 Ferrule

Compatible with SR14A



Part Number	SAP Number	Hose ID	Ferrule Inside Diameter (A)		Ferrule Outside Diameter (B)		Ferrule Length (L)	
			in.	mm	in.	mm	in.	mm
UCF9-03	20318605	3/16	0.39	10.0	0.55	14.0	0.98	24.9
UCF9-04	20303300	1/4	0.43	11.0	0.59	15.0	1.14	29.0
UCF9-04S	20540398	1/4	0.43	11.0	0.59	15.0	1.14	29.0
UCF9-05	20303301	5/16	0.51	13.0	0.67	17.0	1.18	30.0
UCF9-05S	20540399	5/16	0.51	13.0	0.67	17.0	1.18	30.0
UCF9-06	20303302	3/8	0.67	17.0	0.87	22.0	1.22	31.0
UCF9-06S	20540680	3/8	0.67	17.0	0.87	22.0	1.22	31.0
UCF9-08	20303303	1/2	0.79	20.0	0.98	25.0	1.34	34.0
UCF9-08S	20540681	1/2	0.79	20.0	0.98	25.0	1.34	34.0
UCF9-10	20303304	5/8	0.98	25.0	1.18	30.0	1.42	36.0
UCF9-10S	20540682	5/8	0.98	25.0	1.18	30.0	1.42	36.0
UCF9-12	20303305	3/4	1.17	29.8	1.38	35.0	1.58	40.0
UCF9-12S	20540683	3/4	1.17	29.8	1.38	35.0	1.58	40.0
UCF9-16	20303306	1	1.45	36.8	1.65	42.0	1.81	46.0
UCF9-16S	20540684	1	1.45	36.8	1.65	42.0	1.81	46.0

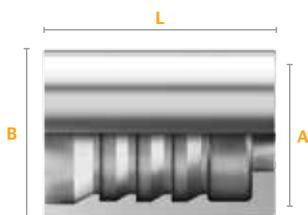


Download the **MyCrimp App** for more information.

**Section 10**  
Ferrules

**FITTINGS**





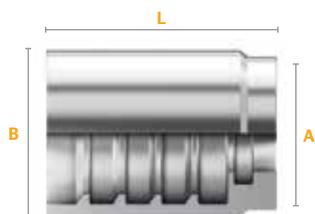
## Uni-Crimp™ UCF10 Ferrule

Compatible with

SCP3 (Hose dash sizes -08 through -12)

ACP3 (Hose dash size -08)

Part Number	SAP Number	Hose ID	Ferrule Inside Diameter (A)		Ferrule Outside Diameter (B)		Ferrule Length (L)	
			in.	mm	in.	mm	in.	mm
UCF10-04	20646659	1/4	0.49	12.7	0.75	19.0	1.04	26.4
UCF10-08	20357071	1/2	0.82	20.9	1.08	27.5	1.29	32.8
UCF10-10	20676729	5/8	1.03	26.1	1.34	34.0	1.40	35.6
UCF10-12	20676720	3/4	1.19	30.2	1.49	38.0	1.52	38.6
UCF10-16	20675424	1	1.56	39.6	2.01	51.0	1.78	45.2

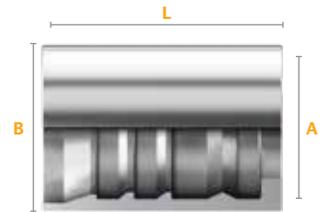


## Uni-Crimp™ UCF11 Ferrule

Compatible with SCP3, ACP3

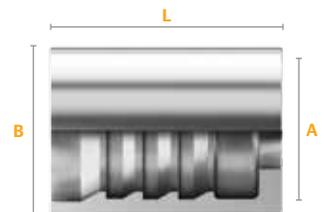
Part Number	SAP Number	Hose ID	Ferrule Inside Diameter (A)		Ferrule Outside Diameter (B)		Ferrule Length (L)	
			in.	mm	in.	mm	in.	mm
UCF11-04	20369170	1/4	0.61	15.4	0.87	22.0	1.04	26.3
UCF11-06	20706519	1/4	0.68	17.3	0.97	24.6	1.18	30.0

## Dual-Grip DGF1 Ferrule



Part Number	SAP Number	Hose ID	Ferrule Inside Diameter (A)		Ferrule Outside Diameter (B)		Ferrule Length (L)	
			in.	mm	in.	mm	in.	mm
DGF1-12	20242262	3/4	1.18	30.0	1.46	37.1	2.36	59.9
DGF1-16	20242265	1	1.47	37.3	1.81	46.0	2.93	74.4
DGF1-20	20241238	1 ¼	1.74	44.2	2.17	55.1	3.46	87.9
DGF1-24	20254315	1 ½	2.02	51.3	2.44	62.0	3.70	94.0
DGF1-32	20254316	2	2.60	66.0	3.07	78.0	3.90	99.0

## Dual-Grip DGF2 Ferrule



Part Number	SAP Number	Hose ID	Ferrule Inside Diameter (A)		Ferrule Outside Diameter (B)		Ferrule Length (L)	
			in.	mm	in.	mm	in.	mm
DGF2-20	20242260	1 ¼	1.95	49.5	2.43	61.7	3.46	87.9
DGF2-24	20242261	1 ½	2.20	55.9	2.72	69.1	3.70	94.0
DGF2-32	20241239	2	2.80	71.1	3.43	87.1	3.90	99.1

## Choosing the Correct Fittings

Choosing the correct fitting may be simplified by identifying the fitting to be replaced by measuring the fitting or in some other way, identifying its size and thread type. Care should be taken in using the correct fitting.

1. The correct fitting is chosen to match a replacement fitting and/or chosen on the basis of formal design and sound engineering practice.
2. Any questions or concerns involving fitting selection should be addressed with the local Sales Representative, Hydraulic Applications Group or with our Customer Service Group at 800-235-4632.
3. Selecting the proper hose assembly - see assemblies section of this catalog. A helpful guide is the "S.T.A.M.P.E.D." process, which requires the documentation of the following:

<b>S Size</b>	ID, OD and length of the assembly
<b>T Temperature</b>	Temperature of material conveyed and climatic conditions
<b>A Application</b>	Conditions of use including abrasion, flexing and routing
<b>M Material</b>	Type, concentration and composition
<b>P Pressure</b>	Includes surge or impulse pressure
<b>E Ends</b>	Style, type, orientation and attachment methods
<b>D Delivery</b>	Includes testing, quality and packaging requirements

In completing the "S.T.A.M.P.E.D." process, "Ends" need to be further defined:

Thread Size	Drop Length
Thread Type	Hose Type
Male or Female	Hose Dash Size
Angle or Elbow	Hose Working Pressure

4. The fitting is available in four styles including Ultra-Crimp™, Uni-Crimp™, Field-Grip™ or Dual-Grip. Each fitting consists of a stem and a ferrule. The stem fits into the Hose ID. The ferrule attaches the fitting to the hose cover. The stem has two functional ends. The first is the hose end, which is used to attach the fitting to the hose. The hose end must be compatible with the ID of the hose. The other end is the thread end, which is used to attach the assembly to another port in the hydraulic system. The thread end will be determined from the fitting being replaced or by measuring the port or threads being attached.
5. Temperature range is important in both hose and fitting selection. Hose temperature limits are shown on page 121 of this catalog. In general, fittings will be comparable with hose temperature ranges with the exception of O-Ring fittings, which are limited to 212°F (100°C).
6. Flange identification requires additional information. Code 61 Flanges, Code 62 Flanges and Caterpillar® Flanges are commonly used to connect large sizes of hose and tubing. Code 61 Flanges are commonly used in applications of 3,000-5,000 psi working pressure, while Code 62 Flanges can be used in applications up to 6,000 psi working pressure. Code 62 and Caterpillar® Flanges are similar in application but Caterpillar® Flanges have a thicker flange head and are frequently found on Caterpillar® equipment. Flanges are identified by measuring the port hole diameter, the longest bolt hole spacing and the flange head thickness.
7. It is possible to have a fitting rated at a lower working pressure than the hose. Keep working pressure in mind when selecting a fitting. The hose assembly can be rated no greater than the lowest pressure rating of either hose or fitting. Reference working pressure tables can be found on pages 112-117.

Note: Dimensions in the catalog are listed as approximate and for reference only. Dimensions are subject to change.

## Fittings Working Pressure Guide

### Maximum Recommended Working Pressure (psi)

Choose fittings carefully, considering the working pressure of both hose and fitting. The maximum working pressure of the hose assembly is the lesser of the rated working pressure of the hose and the fitting.

Working pressures shown on the page are not applicable for the Field Grip™ reattachable fittings (FG-\*). Please contact Continental Customer Service for the working pressure of the FG fittings.

Fitting Style	Thread Dash Size											
	-02	-04	-05	-06	-08	-10	-12	-14	-16	-20	-24	-32
JIC 37° Flare Male Non-Swivel	6000	6000	6000	6000	5000	4000	4000		4000	3000	3000	3000
JIC 37° Flare Female Swivel	6000	6000	6000	6000	5000	4000	4000		4000	3000	3000	3000
NPTF Male Swivel	6000		6000	6000	5000		2250		2000			
NPTF Male Non-Swivel	6000		6000	6000	5000		4000		4000	3000	2500	2500
NPTF Female Swivel	6000		6000	6000	5000		2250		2000	1625		
NPSM Female Swivel	6000		6000	6000	5000		2250		2000	1625		
Code 61 Flange					5000	5000	5000		5000	4000	3000	3000
Code 62 Flange					6000	6000	6000		6000	6000	6000	6000
CAT® Flange							6000		6000	6000	6000	6000
Straight Thread O-Ring Boss Male	5000	5000	5000	5000	4500	4000	4000		4000	3000		
O-Ring Face Seal Female	6000		6000	6000	6000	6000	6000		6000	4000	4000	
SAE 45 Flare Female Swivel	3000		3000	3000	3000	2750	2250		2000	1625	1250	1125
SAE J514 Flareless Tube	5000	5000	4000	3500	3500	2750	2250		2000	1625		
BSPP O-Ring Female Swivel	5800		5800	5800	5000	5000	4500		3500	2850	2250	1800
BSPT Male Non-Swivel	5800		5800	5800	5000	5000	4500		3500	2850	2250	1800
BSPP Male Non-Swivel	5800		5800	5800	5000	5000	4500		3500	2850	2250	1800
DIN 24° Light Female Swivel	3625	3625	3625	3625	3625	3625	2320		2320	1450	1450	1450
DIN 24° Light Male	3625	3625	3625	3625	3625	3625	2320		2320	1450	1450	1450
DIN 24° Heavy Female Swivel		5800	5800	5800	5800	5800	5800		5800	5800	3625	3625
DIN 24° Heavy Male		5800	5800	5800	5800	5800	5800		5800	5800	3625	3625
JIS 30° Flare Female Swivel	5000		5000	5000	5000		4000		3000	2500	1500	1500
JIS 30° Flareless Female Swivel	5000		5000	5000	5000		4000		3000	2500	1500	1500
Komatsu® 30° Female Swivel (Metric Threads)	5000		5000	5000	5000		4000		3000	2500	1500	1500

Selection of the proper Continental Brand fitting is essential to the proper operation and safe use of the hose assembly and related equipment. Inadequate attention to the selection of the proper fitting for the application can result in failure of the fitting which can cause serious bodily injury or property damage from spraying fluids or projectiles.

## Thread Reference Chart

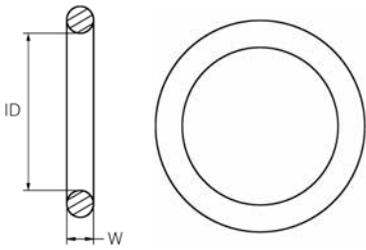
Fitting Style	Thread Type												
	02	03	04	05	06	08	10	12	14	15	16	18	20
JIC 37° Flare (SAE J514)		$\frac{3}{8}$ - 24	$\frac{7}{16}$ - 20	$\frac{1}{2}$ - 20	$\frac{9}{16}$ - 18	$\frac{3}{4}$ - 16	$\frac{7}{8}$ - 14	1 $\frac{1}{16}$ - 12	1 $\frac{3}{16}$ - 12		1 $\frac{5}{16}$ - 12		1 $\frac{5}{8}$ - 12
SAE 45° J512 Flare			$\frac{7}{16}$ - 20	$\frac{1}{2}$ - 20	$\frac{9}{16}$ - 18	$\frac{3}{4}$ - 16	$\frac{7}{8}$ - 14	1 $\frac{1}{16}$ - 14					
SAE 45° Inverted Flare		$\frac{3}{8}$ - 24	$\frac{7}{16}$ - 24	$\frac{1}{2}$ - 20	$\frac{9}{16}$ - 18	$\frac{3}{4}$ - 18	$\frac{7}{8}$ - 18						
NPTF	$\frac{1}{8}$ - 27		$\frac{1}{4}$ - 18		$\frac{3}{8}$ - 18	$\frac{1}{2}$ - 14		$\frac{3}{4}$ - 14			1-11 $\frac{1}{2}$		1 $\frac{1}{4}$ - 11 $\frac{1}{2}$
NPSM			$\frac{1}{4}$ - 18		$\frac{3}{8}$ - 18	$\frac{1}{2}$ - 14		$\frac{3}{4}$ - 14			1-11 $\frac{1}{2}$		1 $\frac{1}{4}$ - 11 $\frac{1}{2}$
NPM API											1-11 $\frac{1}{2}$		1 $\frac{1}{4}$ - 11 $\frac{1}{2}$
SAE J514 Flareless Tube			$\frac{7}{16}$ - 20	$\frac{1}{2}$ - 20	$\frac{9}{16}$ - 18	$\frac{3}{4}$ - 16	$\frac{7}{8}$ - 14	1 $\frac{1}{16}$ - 12			1 $\frac{5}{16}$ - 12		
O-Ring Face Seal (SAE J1453 ORS/ORFS)			$\frac{9}{16}$ - 18		1 $\frac{1}{16}$ - 16	1 $\frac{3}{16}$ - 16	1-14	1 $\frac{3}{16}$ - 12			1 $\frac{7}{16}$ - 12		1 $\frac{11}{16}$ - 12
O-Ring Boss Straight Thread (SAE J514)			$\frac{7}{16}$ - 20	$\frac{1}{2}$ - 20	$\frac{9}{16}$ - 18	$\frac{3}{4}$ - 16	$\frac{7}{8}$ - 14	1 $\frac{1}{16}$ - 12			1 $\frac{5}{16}$ - 12		1 $\frac{5}{8}$ - 12
BSPP (British Standard Pipe Parallel)			$\frac{1}{4}$ - 19		$\frac{3}{8}$ - 19	$\frac{1}{2}$ - 14	$\frac{5}{8}$ - 14	$\frac{3}{4}$ - 14			1-11		1 $\frac{1}{4}$ - 11
BSPT (British Standard Pipe Tapered)			$\frac{1}{4}$ - 19		$\frac{3}{8}$ - 19	$\frac{1}{2}$ - 14		$\frac{3}{4}$ - 14			1-11		
BSP Flat Seat (British Standard Pipe)					$\frac{3}{8}$ - 19	$\frac{1}{2}$ - 14		$\frac{3}{4}$ - 14					
JIS 30° (Parallel Pipe Threads)			$\frac{1}{4}$ - 19		$\frac{3}{8}$ - 19	$\frac{1}{2}$ - 14		$\frac{3}{4}$ - 14			1-11		1 $\frac{1}{4}$ - 11
Code 61 Flange (SAE J518) - Dia.						1.19		1.5			1.75		2
Code 62 Flange (SAE J518) - Dia.						1.25		1.63			1.87		2.13
Caterpillar® Flange - Dia.								1.63			1.87		2.13
Komatsu® Flange - Dia.							1.34						
Standpipe - OD						8 mm	10 mm	12 mm		15 mm	16 mm	18 mm	20 mm
DIN 24° Light								12 x 1 $\frac{1}{2}$	14 x 1 $\frac{1}{2}$		16 x 1 $\frac{1}{2}$	18 x 1 $\frac{1}{2}$	
DIN 24° Heavy											16 x 1 $\frac{1}{2}$	18 x 1 $\frac{1}{2}$	20 x 1 $\frac{1}{2}$
DIN 60°								14 x 1 $\frac{1}{2}$		16 x 1 $\frac{1}{2}$	18 x 1 $\frac{1}{2}$		
Komatsu® 30° Flare (Metric Threads)								14 x 1 $\frac{1}{2}$			18 x 1 $\frac{1}{2}$		

All measurements in inches unless otherwise noted.

Fitting Style	Thread Type											
	22	24	26	28	30	32	33	36	40	42	45	52
JIC 37° Flare (SAE J514)		1 7/8 - 12				2 1/2 - 12						
SAE 45° J512 Flare												
SAE 45° Inverted Flare												
NPTF		1 1/2 - 11 1/2				2 - 11 1/2						
NPSM												
NPM API		1 1/2 - 11 1/2				2 - 11 1/2						
SAE J514 Flareless Tube												
O-Ring Face Seal (SAE J1453 ORS/ORFS)		2-12										
O-Ring Boss Straight Thread (SAE J514)		1 7/8 - 12										
BSPP (British Standard Pipe Parallel)		1 1/2 - 11				2-11						
BSPT (British Standard Pipe Tapered)												
BSP Flat Seat (British Standard Pipe)												
JIS 30° (Parallel Pipe Threads)												
Code 61 Flange (SAE J518) - Dia.		2.37				2.81			3.31			
Code 62 Flange (SAE J518) - Dia.		2.5				3.13						
Caterpillar® Flange - Dia.		2.5										
Komatsu® Flange - Dia.												
Standpipe - OD	22 mm			28 mm								
DIN 24° Light	22 x 1 1/2		26 x 1 1/2		30 x 2			36 x 2			45 x 2	
DIN 24° Heavy	22 x 1 1/2	24 x 1 1/2			30 x 2			36 x 2		42 x 2		52 x 2
DIN 60°	22 x 1 1/2		26 x 1 1/2									
Komatsu® 30° Flare (Metric Threads)	22 x 1 1/2	24 x 1 1/2			30 x 1 1/2		33 x 1.5	36 x 1 1/2				

All measurements in inches unless otherwise noted.

## Fitting Accessories: O-Rings



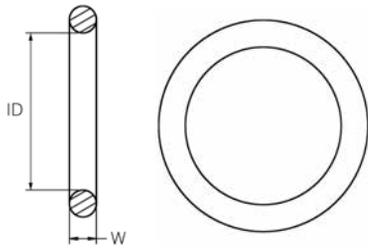
<b>Material</b>	NBR
<b>Hardness</b>	90 Shore A
<b>Temperature Range</b>	-25°C to 125°C (-13°F to 257°F)

### BSPP (British Standard Pipe Parallel) O-Rings

Descriptive Number	Product Number	SAP Number	ID	Width	Thread Dash Size
			in.	in.	
OBSPP-04	60505-0004	20245720	0.256	0.039	-04
OBSPP-06	60505-0006	20245723	0.319	0.063	-06
OBSPP-08	60505-0008	20245539	0.476	0.063	-08
OBSPP-10	60505-0010	20245724	0.516	0.063	-10
OBSPP-12	60505-0012	20245722	0.673	0.063	-12
OBSPP-16	60505-0016	20245536	0.870	0.063	-16
OBSPP-20	60505-0020	20245538	1.146	0.063	-20
OBSPP-24	60505-0024	20245537	1.382	0.063	-24
OBSPP-32	60505-0032	20245721	1.890	0.059	-32

### DIN 24 Light O-Rings

Descriptive Number	Product Number	SAP Number	ID	Width	Thread Dash Size
			in.	in.	
ODIN24L-14	60520-0014	20245731	0.236	0.059	-14
ODIN24L-16	60520-0016	20245732	0.295	0.059	-16
ODIN4L-18	60520-0018	20245733	0.354	0.059	-18
ODIN4L-22	60520-0022	20245734	0.472	0.079	-22
ODIN4L-26	60520-0026	20245735	0.591	0.079	-26
ODIN4L-30	60520-0030	20245736	0.787	0.079	-30
ODIN4L-36	60520-0036	20245737	1.024	0.079	-36
ODIN4L-45	60520-0045	20245738	1.260	0.098	-45
ODIN24L-52	60520-0052	20245739	1.496	0.098	-52



<b>Material</b>	NBR
<b>Hardness</b>	90 Shore A
<b>Temperature Range</b>	-25 °C to 125 °C (-13 °F to 257 °F)

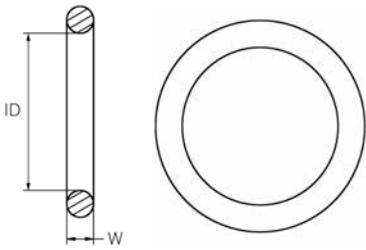
## DIN 24 Heavy O-Rings

Descriptive Number	Product Number	SAP Number	ID	Width	Thread Dash Size
			in.	in.	
ODIN24H-22	60515-0022	20245740	0.394	0.079	-22
ODIN24H-30	60515-0030	20245741	0.642	0.094	-30
ODIN24H-36	60515-0036	20245742	0.799	0.094	-36
ODIN24H-42	60515-0042	20245743	0.984	0.098	-42
ODIN24H-52	60515-0052	20245744	1.311	0.094	-52

## O-Ring Face Seal O-Rings (SAE J1453 ORS/ORFS)

Descriptive Number	Product Number	SAP Number	ID	Width	Thread Dash Size
			in.	in.	
OORFS-04	60525-0004	20245751	0.301	0.07	-04
OORFS-06	60525-0006	20245749	0.364	0.07	-06
OORFS-08	60525-0008	20245750	0.488	0.07	-08
OORFS-10	60525-0010	20245746	0.614	0.07	-10
OORFS-12	60525-0012	20245747	0.739	0.07	-12
OORFS-16	60525-0016	20245748	0.926	0.07	-16
OORFS-20	60525-0020	20245745	1.176	0.07	-20
OORFS-24	60525-0024	20431832	1.489	0.07	-24

## Fitting Accessories: O-Rings



Material	NBR
Hardness	90 Shore A
Temperature Range	-25°C to 125°C (-13°F to 257°F)

### O-Ring Boss Straight Thread O-Rings (SAE J514)

Descriptive Number	Product Number	SAP Number	ID	Width	Thread Dash Size
			in.	in.	
ORB-02	60530-0002	20431833	0.239	0.062	-02
ORB-04	60530-0004	20245756	0.351	0.072	-04
ORB-05	60530-0005	20245754	0.414	0.072	-05
ORB-06	60530-0006	20245758	0.468	0.078	-06
ORB-08	60530-0008	20245755	0.644	0.087	-08
ORB-10	60530-0010	20245757	0.755	0.097	-10
ORB-12	60530-0012	20245752	0.924	0.116	-12
ORB-16	60530-0016	20245753	1.171	0.116	-16
ORB-20	60530-0020	20431834	1.475	0.119	-20
ORB-24	60530-0024	20431835	1.720	0.119	-24
ORB-32	60530-0032	20431836	2.337	0.120	-32

### Caterpillar® Flange O-Rings Code 61 and Code 62 Flange O-Rings (SAE J518)

Descriptive Number	Product Number	SAP Number	ID	Width	Thread Dash Size
			in.	in.	
O6162-08	60500-0008	20245728	0.734	0.139	-08
O6162-10	60500-0010	20431831	0.859	0.139	-10
O6162-12	60500-0012	20245730	0.984	0.139	-12
O6162-16	60500-0016	20245727	1.296	0.139	-16
O6162-20	60500-0020	20245726	1.484	0.139	-20
O6162-24	60500-0024	20245725	1.859	0.139	-24
O6162-32	60500-0032	20245729	2.234	0.139	-32
O6162-40	60500-0040	20246508	2.734	0.139	-40

## Split Flanges, Code 61 and 62 (SAE J518)

Flanges are commonly used to connect large sizes of hose and tubing. An O-Ring in the flange head seals on a smooth face, female port. The male flange head and female port are held in place with two clamp halves and four bolts. Flanges conform to SAE J518 standard and are identified as Code 61 or the “standard series” and Code 62 or “high-pressure series.” The two flanges are not interchangeable as Code 61 is used in applications of up to 5,000 psi working pressure. Code 62 is designed for 6,000 psi working pressure. Code 61 and Code 62 are dimensionally different. Specifics on Code 61 and Code 62 flanges are found in the following charts.

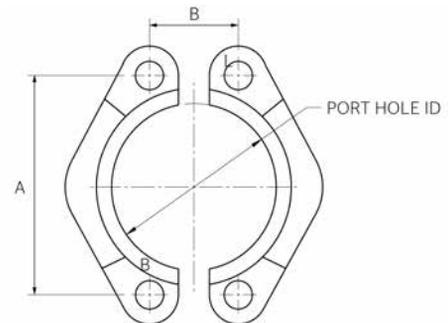
### Determine Flange Size

**Method 1:** Measure the port hole inside diameter (ID)

**Method 2:** Measure the “A” dimension on the flange, which is the longest bolt hole spacing from center-to-center.

### Assembly Procedure

1. Clean all mating services.
2. Replace O-Ring. Lubricate before installation.
3. Partially tighten each bolt in rotation until all are fully tightened to the recommended torque value listed in the appendix.



### Code 61 Split Flange Clamp Kits

Includes Clamp Halves, 4 Bolts, 4 Lockwashes and 1 O-Ring

Descriptive Number	Product Number	SAP Number	Port Hole ID	A	B	Maximum Working Pressure	Recommended Grade 8 Bolts
						psi	
FL61SC-08	60061-0008	20246512	1/2	1.500	0.685	5000	5/16 - 18 x 1 ¼
FL61SC-12	60061-0012	20246513	3/4	1.874	0.874	5000	3/8 - 16 x 1 ½
FL61SC-16	60061-0016	20246514	1	2.063	1.031	5000	3/8 - 16 x 1 ¼
FL61SC-20	60061-0020	20246515	1 ¼	2.311	1.189	4000	7/16 - 14 x 1 ½
FL61SC-24	60061-0024	20246516	1 ½	2.752	1.409	3000	1/2 - 13 x 1 ½
FL61SC-32	60061-0032	20246517	2	3.063	1.685	3000	1/2 - 13 x 1 ¾
FL61SC-40	60061-0040	20246467	2 ½	3.504	2.008	2500	1/2 - 13 x 1 ¾

### Code 62 Split Flange Clamp Kits

Includes Clamp Halves, 4 Bolts, 4 Lockwashes and 1 O-Ring

Descriptive Number	Product Number	SAP Number	Port Hole ID	A	B	Maximum Working Pressure	Recommended Grade 8 Bolts
						psi	
FL2SC-08	60062-0008	20246519	1/2	1.594	0.717	6000	5/16 - 18 x 1 ¼
FL2SC-12	60062-0012	20246520	3/4	2.000	0.937	6000	3/8 - 16 x 1 ½
FL2SC-16	60062-0016	20246521	1	2.252	1.094	6000	7/16 - 14 x 1 ¾
FL2SC-20	60062-0020	20246522	1 ¼	2.626	1.252	6000	1/2 - 13 x 1 ¾
FL2SC-24	60062-0024	20246523	1 ½	3.126	1.441	6000	5/8 - 11 x 2 ¼
FL2SC-32	60062-0032	20246524	2	3.811	1.748	6000	3/4 - 10 x 2 ¾

## Split Flanges

Code 61 / Code 62 Clamp Kits

## FITTINGS



# German Metric Thread ID Template

Ideal for counter and field identification of German Metric DIN threads

(GBS Collateral Item #70086290575800)

## Instructions

### Female Threads

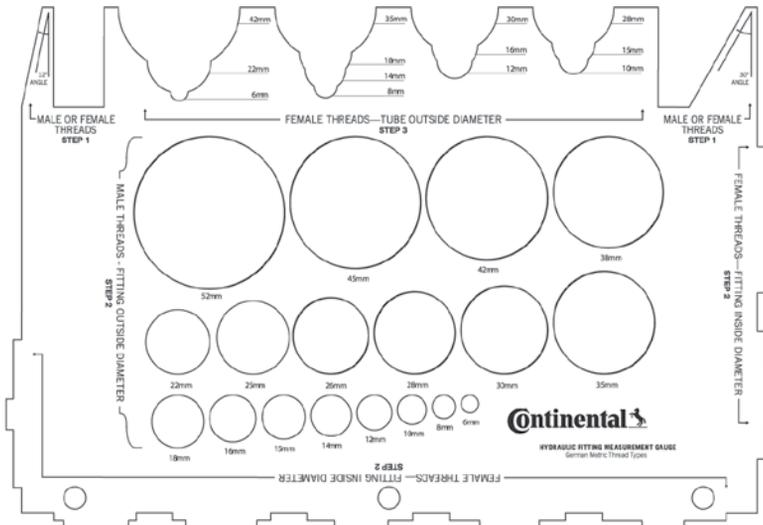
1. Use the 12° or 30° angle, as shown in the image to the right, to verify that the seat is 12° or 30° (See note).
2. Use the step gauge to determine inside diameter (ID) of female port.
3. Measure Tube OD with the Tube Inside Diameter Gauge.
4. Use Thread ID Table: DIN 2353 along with measured Tube OD to determine if tube is "Heavy" or "Light" Series.

### Male Threads

1. Use the 12° or 30° angle, as shown in the image to the right, to verify that the seat is 12° or 30° (See note).
2. Use Fitting Inside Diameter Gauge to measure Inside Threads.
3. Refer to Thread ID Table: DIN 3863 along with measured Thread OD to determine Metric Male Thread. Rule of thumb: On Male Thread, measure the ID of the machined surface and subtract 1 mm to achieve tube OD. For example, when measuring a heavy-duty series Male on an M14 x 1 1/2 thread, the caliper will measure 7 mm (7 mm - 1 mm = 6 mm).

Note: If measured angle is not 12° or 30° use the Fitting Identification Section in the Appendix to identify.

Inclusive angle is the entire angle contained in the machined surface. Each side of the surface measures 1/2 of the total angle (e.g. 24° x 0.5 = 12°).



**German Metric Thread Types**

**Female Threads—STEP 4**  
**MALE THREADS—STEP 3**

Thread Identification Table: DIN 2353 24° Cone				
Metric Thread (Dia. x Pitch)	Female Thread ID (mm)	Male Thread OD (mm)	Light Series (mm)	Tube OD Heavy Series (mm)
M 12 x 1,5	10,5	12	6	
M 14 x 1,5	12,5	14	8	6
M 16 x 1,5	14,5	16	10	8
M 18 x 1,5	16,5	18	12	10
M 20 x 1,5	18,5	20	12	12
M 22 x 1,5	20,5	22	14	14
M 24 x 1,5	22,5	24	15	16
M 26 x 1,5	24,5	26	18	
M 30 x 2,0	28,5	30	22	20
M 36 x 2,0	33,9	36	28	25
M 42 x 2,0	39,9	42	35	30
M 45 x 2,0	42,9	45	35	
M 52 x 2,0	49,9	52	42	38

**Instructions**

**Female Threads**

1. Use the 12° or 30° angle, as shown in the image to the right, to verify that the seat is 12° or 30° (See note).
2. Use the step gauge to determine Inside Diameter of female port.
3. Measure Tube OD with the Tube Outside Diameter Gauge.
4. Use Thread ID Table: DIN 2353 along with measured Tube OD to determine if Tube is "Heavy" or "Light" Series.

**Male Threads**

1. Use the 12° or 30° angle, as shown in the image to the right, to verify that the seat is 12° or 30° (See note).
2. Use Fitting Inside Diameter Gauge to measure Inside Threads.
3. Refer to Thread ID Table: DIN 3863 along with measured Thread OD to determine Metric Male Thread. Rule of Thumb: On Male Thread, measure the ID of the machined surface and subtract 1mm to achieve tube OD. For example, when measuring a heavy-duty series Male on a M14 x 1,5 thread, the caliper will measure 7mm (7mm - 1mm = 6mm).

**Note:** If measured angle is not 12° or 30°, use the Fitting Identification Section in our Hydraulic Hose Catalog Appendix to identify.

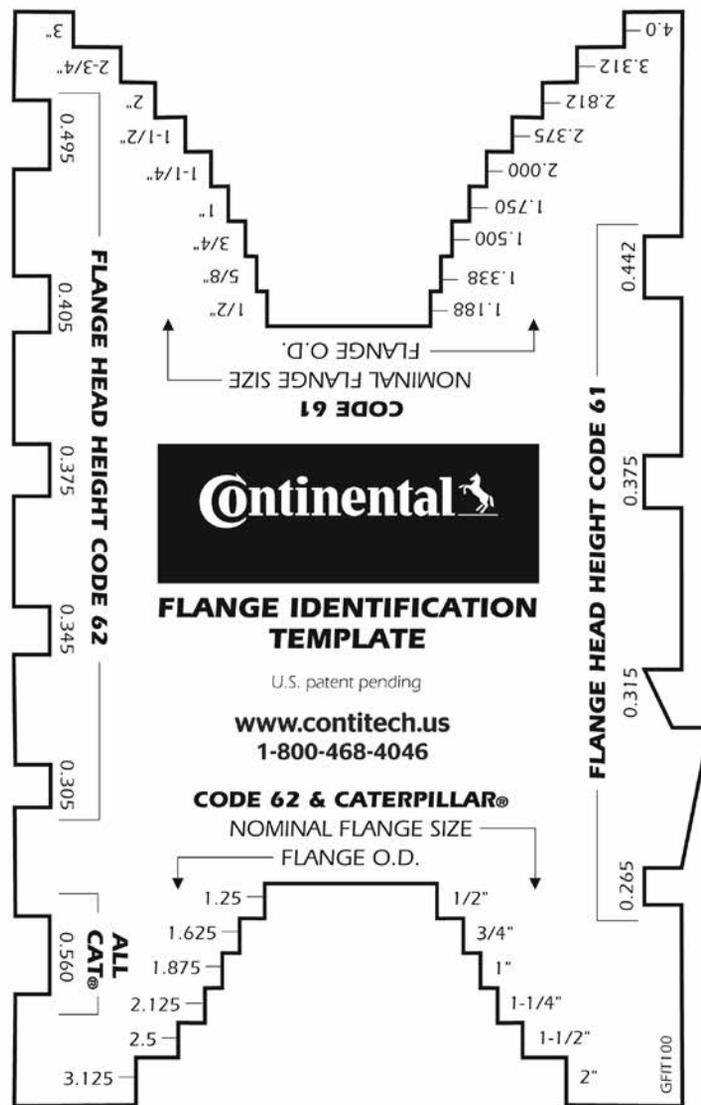
**Inclusive Angle:** is the entire angle contained in the machined surface. Each side of the surface measures 1/2 of the total angle (e.g. 24° x 0.5 = 12°).

**MALE THREADS—STEP 3**

Thread Identification Table: DIN 3863 60° Cone				
Metric Thread (Dia. x Pitch)	Female Thread ID (mm)	Male Thread OD (mm)	Tube OD (mm)	Tube OD 60° Cone (mm)
M 12 x 1,5	10,5	12	6	
M 14 x 1,5	12,5	14	8	
M 16 x 1,5	14,5	16	10	
M 18 x 1,5	16,5	18	12	
M 22 x 1,5	20,5	22	15	
M 26 x 1,5	24,5	26	18	
M 30 x 2,0	28,5	30	22	
M 36 x 2,0	33,9	36	26	
M 45 x 2,0	43,5	45	35	
M 52 x 2,0	50,5	52	42	

# Code 61, Code 62, CAT® Flange ID Template

Ideal for counter and field identification of SAE Flanges



Product #: GFIT100

SAP #: 20243407

Weight: 1.4 oz.

Dimensions: 4 7/8" W x 7 7/8" H

## Notes

1. Reverse side of template shows dimensional chart for Code 61/Code 62/CAT® flanges.
2. Above not to scale.
3. As a connection on pumps and motors, the SAE Code 61 and Code 62 4-bolt flanges are used worldwide with three exceptions:
  - a. Although a common size outside of North America, the #10 size is not an SAE standard size.
  - b. Although Caterpillar® flanges have the same OD as SAE Code 62, they have a thicker flange head.
  - c. Porcelain flanges are completely different from SAE flanges.

## Flange ID Template

Code 61 / Code 62 / CAT®

FITTINGS



## Thread Identification Kit

There are many types of North American threads, as well as British, German, French and Japanese threads. With all the thread types and styles available, it is important to properly identify a fitting so that an assembly can be connected correctly within the hydraulic system. This kit and the tools inside will help you identify a broad selection of different thread types.

### The Thread Identification Kit includes:

- › Fitting Identification Manual
- › North American (NA) Thread Pitch Gauge
- › International (INT) Thread Pitch Gauge
- › Seat Angle Gauges 12°, 30°, 37°, 45°
- › ID/OD 3.5" Calipers

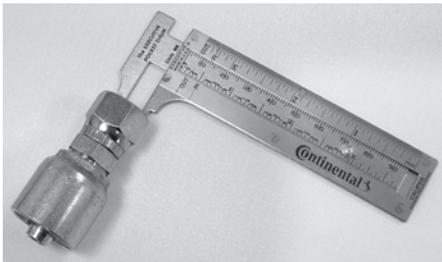
**Part Number:** Fitting ID Pocket Guide

**Dimensions:** 4 ½" W x 5 ½" H



### Steps to Identify a Fitting

1. Select country of origin for the fitting. Use part number if available to determine thread type.
2. Identify the fitting visually using the illustrations in the proper section of the Continental Hydraulic Hose and Fittings Catalog or the Hydraulic Fitting Identification Manual included with the identification kit.
3. Measure the inside diameter or the outside diameter of the fitting threads using the ID/OD Calipers.
4. Measure thread pitch using the North American or International Thread Pitch Gauge. The gauge will determine number of threads per inch or the distance between threads of a metric connection.



5. Measure the angle of the fitting's sealing surface using the Seat Angle Gauge.



6. Compare measurements above to the tables in the fitting catalog or identification manual to complete the identification of the fitting.

## Standard and Notched Calipers

Continental calipers help you get the job done.

### FEATURES

- › Large LCD display for easy reading
- › 1.5V battery (included)
- › Lockable slider
- › Quick interchangeable readout in inch or metric units for readability
- › 4-way measurement capability for multiple applications: outside diameter (OD), inside diameter (ID), depth and step



**Standard Digital Caliper (Part # 20926932)**

- › Long, smooth surface is great for larger crimp flats



**Standard Notched Caliper (Part # 20926931)**

- › Great for measuring small crimp flats
- › Ideal for measuring AC style crimps

### Calipers

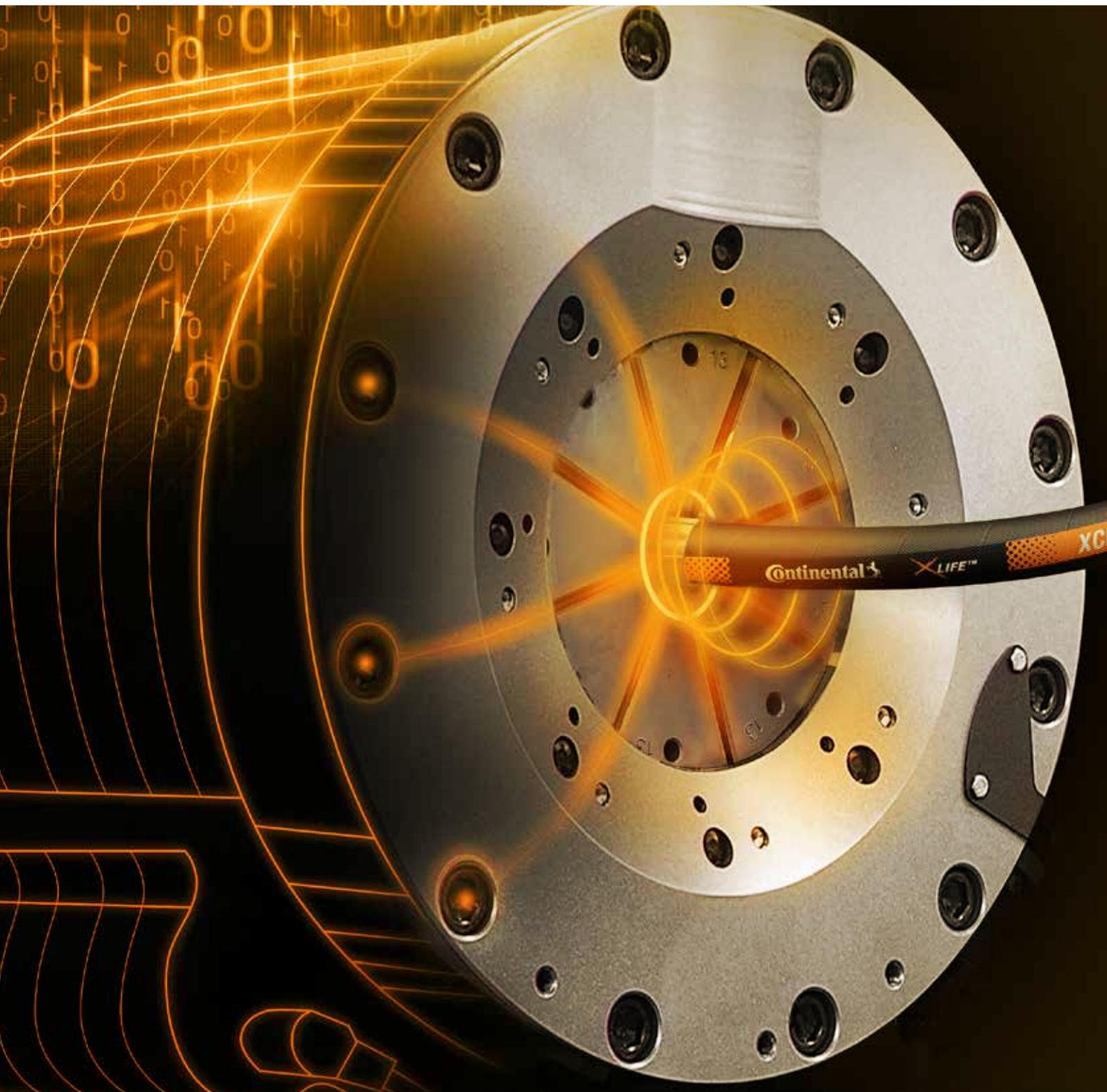
Standard / Notched

### FITTINGS





# EQUIPMENT & ACCESSORIES



## PC100H-RCD Series Crimper

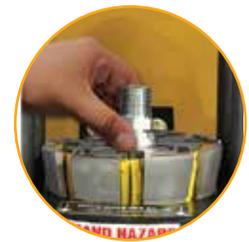
Packed neatly into a convenient storage case with room for additional crimping accessories, the PC100H-RCD is ideal for on-the-go crimping applications. Built to allow the operator to optimally position the fitting, the open design, removable pusher and easy-to-use rubber-cage die set ensure an accurate crimp every time. With 35 tons of crimping force and a ValPower® hand pump rated at 10,000 psi, operators can combine performance and speed with the convenience of a hand pump.

### FEATURES

- › Lightweight, portable unit with a convenient storage case where crimper and crimping accessories can be stored
- › Open design with a two-piece PC125RCD rubber-cage die set and removable pusher, allowing the operator to accurately position the fitting prior to crimping
- › T420 micrometer is easy to use and read, and is fully adjustable to make precise and repeatable crimps
- › LED indicator light will turn on to indicate the crimp is complete
- › Complete range of dies and accessories available



Convenient Die Storage



High Visibility



Accurate and Repeatable



LED Indicator Light

# PC100H-RCD Series Crimper

## TECHNICAL DATA

**CRIMPING FORCE** 35 ton

**WEIGHT** 110 lbs. with case and crimping tooling

**DIMENSIONS** 16" L x 16" W x 17" H

**DIE SERIES** PC125RCD

**MOUNTING** Crimper and pump installed on plate

**POWER** ValPower® hand pump 10,000 psi

## CAPABILITY

- › (-16) B2 Fittings
- › (-08) SG Fittings

## CALIPERS

All crimpers include a Continental caliper.



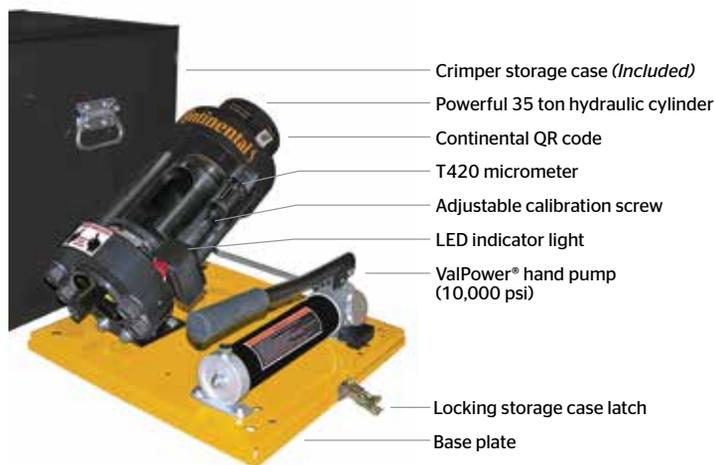
Standard  
SAP 20926932  
*Ships with crimper*



Notched  
SAP 20926931

## AVAILABLE CONFIGURATIONS

SAP #	Pump	PSI	Reservoir Capacity	Country Approved	Dies Included	Die Sizes (mm)	Carrying Case Included
21063167	Hand	10,000	25 in³ (410 cc)	Any	7	12, 16, 19, 23, 27, 31, 43	✓



For additional accessories and replacement parts, please reference the Crimper Operator's Manual.

EQUIPMENT & ACCESSORIES



## PC100P-RCD Series Crimper

The PC100P-RCD is designed to simplify portable crimping applications from start to finish. With 35 tons of crimping force paired with the convenience of a ValPower® pneumatic pump rated at 10,000 psi, it brings precise performance to any jobsite. Its lightweight, open-design unit allows the operator to make adjustments to increase crimp accuracy and consistency. Plus, eliminate any guesswork with the LED indicator that informs the operator when the crimp is complete. And when the job is done, the crimper and any accessories pack neatly into a convenient storage case for easy transport.

### FEATURES

- › Lightweight, portable unit with a convenient storage case where crimper and crimping accessories can be stored
- › Open design with a two-piece PC125RCD rubber-cage die set and removable pusher, allowing the operator to accurately position the fitting prior to crimping
- › T420 micrometer is easy to use and read, and is fully adjustable to make precise and repeatable crimps
- › LED indicator light will turn on to indicate the crimp is complete
- › Complete range of dies and accessories available



Convenient Die Storage



High Visibility



Accurate and Repeatable



LED Indicator Light

# PC100P-RCD Series Crimper

## TECHNICAL DATA

**CRIMPING FORCE** 35 ton

**WEIGHT** 110 lbs. with case and crimping tooling

**DIMENSIONS** 16" L x 16" W x 17" H

**DIE SERIES** PC125RCD

**MOUNTING** Crimper and pump installed on plate

**POWER** ValPower® pneumatic pump 10,000 psi

## CAPABILITY

- › (-16) B2 Fittings
- › (-08) SG Fittings

## CALIPERS

All crimpers include a Continental caliper.



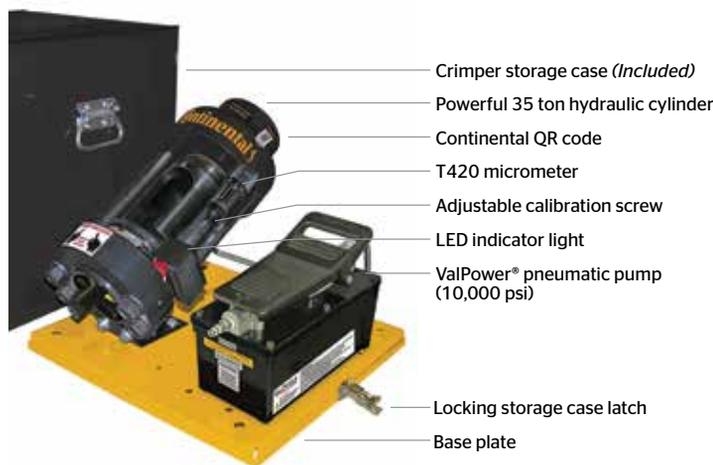
Standard  
SAP 20926932  
*Ships with crimper*



Notched  
SAP 20926931

## AVAILABLE CONFIGURATIONS

SAP #	Pump	PSI	Reservoir Capacity	Country Approved	Dies Included	Die Sizes (mm)	Carrying Case Included
21063168	Pneumatic	10,000	100 in3 (1,639 cc)	Any	7	12, 16, 19, 23, 27, 31, 43	✓



Notched Pressure Plate  
*Included*



Pressure Plate  
*Included*



T420 Metric  
Micrometer  
*Included*



Pusher  
(without magnets)  
*Included*



Die Removal Magnet  
*Included*



PC125RCD Die Set  
*Included*



ValPower® Pneumatic  
Pump, 10,000 psi  
*Included*



6 ft. Stand Alone  
Hose Assembly  
*Included*



CRIMPX Die Lubricant  
Oil 4 oz. Bottle with  
Dauber Cap  
*Included*

For additional accessories and replacement parts, please reference the Crimper Operator's Manual.

## EQUIPMENT & ACCESSORIES



## PC100SH-RCD Series Crimper

The PC100SH-RCD portable hose crimper, with its lightweight open design and adjustable positions, is designed to allow the operator maximum flexibility and control. With 35 tons of crimping force weighing in at only 48 lbs., the PC100SH-RCD packs heavy duty crimping ability into a lightweight structure that can be carried right to the jobsite. The ValPower® hand pump rated at 10,000 psi eliminates the need for electricity or external power sources, making portable crimping attainable in any location where service is required.

### FEATURES

- › Lightweight portable unit is truly a “portable” crimper that can be carried to almost any location where service is required
- › Crimper position can be adjusted for optimum crimping position or dropped to vertical position for better balance when the crimper is being carried
- › Open design with a two-piece PC125RCD rubber-cage die set and removable pusher, allowing the operator to accurately position the fitting prior to crimping
- › T420 micrometer is easy to use and read, and is fully adjustable to make precise and repeatable crimps
- › LED indicator light will turn on to indicate the crimp is complete
- › Complete range of dies and accessories available



Adjustable Crimper Position



High Visibility



Accurate and Repeatable



LED Indicator Light

# PC100SH-RCD Series Crimper

## TECHNICAL DATA

**CRIMPING FORCE** 35 ton

**WEIGHT** 48 lbs.

**DIMENSIONS** 12½" L x 12½" W x 24" H

**DIE SERIES** PC125RCD

**MOUNTING** Crimper mounted on a carrying frame

**POWER** ValPower® hand pump 10,000 psi

## CAPABILITY

- > (-16) B2 Fittings
- > (-08) SG Fittings

## CALIPERS

All crimpers include a Continental caliper.



Standard  
SAP 20926932  
*Ships with crimper*



Notched  
SAP 20926931

## AVAILABLE CONFIGURATIONS

SAP #	Pump	PSI	Reservoir Capacity	Country Approved	Dies Included	Die Sizes (mm)	Quick Disconnect Included	Drawer/Stand Included
21063169	Hand	10,000	25 in³ (410 cc)	Any	7	12, 16, 19, 23, 27, 31, 43	✓	✓

**Powerful 35 ton hydraulic cylinder**  
**Removable pusher**  
**Pressure plate**  
**PC125RCD die series**  
**Die orientation decal**

**Continental QR code**  
**Carrying frame**  
**T420 micrometer**  
**Adjustable calibration screw**  
**LED indicator light**  
**Adjustable crimper position**

**Notched Pressure Plate**  
*Included*  
**Pressure Plate**  
*Included*  
**T420 Metric Micrometer**  
*Included*  
**Pusher (without magnets)**  
*Included*  
**Die Removal Magnet**  
*Included*  
**PC125RCD Die Set**  
*Included*  
**ValPower® Hand Pump, 10,000 psi**  
*Included*  
**6 ft. Stand Alone Hose Assembly**  
*Included*  
**CRIMPX Die Lubricant Oil 4 oz. Bottle with Dauber Cap**  
*Included*

For additional accessories and replacement parts, please reference the Crimper Operator's Manual.

## EQUIPMENT & ACCESSORIES



## PC100SP-RCD Series Crimper

No matter where the jobsite may be, the PC100SP-RCD portable hose crimper brings big capability to a compact unit. With 35 tons of crimping force paired with a ValPower® pneumatic pump rated at 10,000 psi, it delivers accurate and consistent execution without the need of an external power source. The easy-to-read T420 micrometer allows the operator to make quick, repeatable crimps for ultimate precision. And, with the adjustable frame weighing in at only 48 lbs., it is ideal for portable crimping applications.

### FEATURES

- › Lightweight portable unit is truly a “portable” crimper that can be carried to almost any location where service is required
- › Crimper position can be adjusted for optimum crimping position or dropped to vertical position for better balance when the crimper is being carried
- › Open design with a two-piece PC125RCD rubber-cage die set and removable pusher, allowing the operator to accurately position the fitting prior to crimping
- › T420 micrometer is easy to use and read, and is fully adjustable to make precise and repeatable crimps
- › LED indicator light will turn on to indicate the crimp is complete
- › Complete range of dies and accessories available



Adjustable Crimper Position



High Visibility



Accurate and Repeatable



LED Indicator Light

# PC100SP-RCD Series Crimper

## TECHNICAL DATA

**CRIMPING FORCE** 35 ton

**WEIGHT** 48 lbs.

**DIMENSIONS** 12½" L x 12½" W x 24" H

**DIE SERIES** PC125RCD

**MOUNTING** Crimper mounted on a carrying frame

**POWER** ValPower® pneumatic pump 10,000 psi

## CAPABILITY

- › (-16) B2 Fittings
- › (-08) SG Fittings

## CALIPERS

All crimpers include a Continental caliper.



Standard  
SAP 20926932  
*Ships with crimper*



Notched  
SAP 20926931

## AVAILABLE CONFIGURATIONS

SAP #	Pump	PSI	Reservoir Capacity	Country Approved	Dies Included	Die Sizes (mm)	Quick Disconnect Included	Drawer/Stand Included
21063190	Pneumatic	10,000	100 in <sup>3</sup> (1,639 cc)	Any	7	12, 16, 19, 23, 27, 31, 43	✓	✓
21063169	Hand	10,000	25 in <sup>3</sup> (410 cc)	Any	7	12, 16, 19, 23, 27, 31, 43	✓	✓

**Powerful 35 ton hydraulic cylinder**

**Removable pusher**

**Pressure plate**

**PC125RCD die series**

**Die orientation decal**

**Continental QR code**

**Carrying frame**

**T420 micrometer**

**Adjustable calibration screw**

**LED indicator light**

**Adjustable crimper position**

**Notched Pressure Plate**  
*Included*

**Pressure Plate**  
*Included*

**T420 Metric Micrometer**  
*Included*

**Pusher (without magnets)**  
*Included*

**Die Removal Magnet**  
*Included*

**PC125RCD Die Set**  
*Included*

**ValPower® Pneumatic Pump, 10,000 psi**  
*Included*

**6 ft. Stand Alone Hose Assembly**  
*Included*

**CRIMPX Die Lubricant Oil 4 oz. Bottle with Dauber Cap**  
*Included*

For additional accessories and replacement parts, please reference the Crimper Operator's Manual.

## EQUIPMENT & ACCESSORIES



# PC125M-RCD Portable Series Crimper

The PC125M-RCD crimper can be carried to the jobsite with a handle and support stand, and is ideal for portable crimping requirements. Whether carried on-site, used in a vehicle or even stationary at the shop, the PC125M-RCD is designed as a low volume crimper for occasional use. The crimp diameter is set and controlled with an easy-to-read T420 micrometer. This affordable crimper is packaged in component parts to fit the needs of the user. The PC125M-RCD standard package includes: T420 micrometer, adjustable retraction stop, LED indicator light, removable pusher, standard pressure plate, notched pressure plate, Continental digital caliper, die removal magnet, and CRIMPX die lubricant oil w/ dauber cap.

## FEATURES

### ADJUSTABLE RETRACTION STOP

- › Limits ram retraction to only the amount required to remove the hose and coupling
- › Saves time on multiple, repetitive crimps



Portable rugged steel frame and strain rods provide strength, stability, and performance for all crimping service.



Micrometer style adjustment is fully adjustable for a precise crimp.



Easy lubrication maintenance.



Ideal notched pressure plate when crimping 90° fittings.



Open design allows the operator to accurately position the fitting prior to crimping.



LED indicator light will turn on to indicate that the crimp is complete.

## PC125M-RCD Portable Series Crimper

### CAPABILITY

- > (-20) B2 Fittings
- > (-16) SG Fittings

### TECHNICAL DATA

**CRIMPING FORCE** 60 ton

**WEIGHT** 85 lbs. (Crimper only)

**DIMENSIONS** 17" L x 10 ¼" W x 18 ½" H

**DIE SERIES** PC125RCD



### AVAILABLE CONFIGURATIONS

SAP #	Pump	PSI	Reservoir Capacity	Country Approved	Dies Included	Die Sizes (mm)	Quick Disconnect Included	Drawer/Stand Included
20821205	*None	N/A	N/A	Any	8	16, 19, 23, 27, 31, 34, 43, 50	✓	✓
20821206	*None	N/A	N/A	Any	5	16, 19, 23, 31, 41	✓	✓
20821204	*None	N/A	N/A	Any	None		✓	

\*Do not forget to buy your pump that best fits your portable crimping requirements. See the chart below.

### PUMP OPTIONS

SAP #	Pump	PSI	Reservoir Capacity	Country Approved	Pump Model
20244931	Hand	10,000	43 in. <sup>3</sup> (705 cc)	Any	
20244932	Pneumatic	10,000	100 in. <sup>3</sup> (1,639 cc)	Any	
20244916	110V 3/4 HP	10,000	1 gallon	USA	

For additional accessories and replacement parts, please reference the Crimper Operator's Manual.

EQUIPMENT & ACCESSORIES



## PC125-RCD Series Crimper

The PC125-RCD crimper with its open design, removable pusher and easy-to-use, rubber-cage die set, is designed for higher production volume and repetitive use. Crimp diameter is set and controlled with an easy-to-read T420 micrometer. The PC125-RCD is packaged for shop service.

The PC125-RCD standard package includes: T420 micrometer, electronic stop switch, adjustable retraction stop, removable pusher, standard pressure plate, notched pressure plate, adjustable coupling stop, pneumatic start/stop pendant switch, Continental digital caliper, die removal magnet, and CRIMPX die lubricant oil w/ dauber cap.

### FEATURES

#### PC125 STAND/DRAWER

- › The PC125-RCD crimper can be mounted on the PC125 Stand/Drawer
- › PC125RCD dies and crimping tooling can be stored in the drawer



Micrometer style adjustment is fully adjustable for a precise crimp.



Easy lubrication maintenance.



Ideal notched pressure plate when crimping 90° fittings.



Retraction stop limits ram retraction for quick repetitive crimps.



Coupling stop makes repetitive crimps faster.



Electronic stop switch shuts the pump off when the crimp cycle is complete.

## PC125-RCD Series Crimper

### CAPABILITY

- > (-20) B2 Fittings
- > (-16) SG Fittings

### TECHNICAL DATA

**CRIMPING FORCE** 60 ton

**WEIGHT** 154 lbs. (crimper only)

**DIMENSIONS** 22 ½" L x 13" W x 22 ½" H

**DIE SERIES** PC125RCD

**OIL CAPACITY** 1 gallon



### AVAILABLE CONFIGURATIONS

SAP #	Voltage	Phase	Plug	Hertz	Country Approved	Dies Included	Die Sizes (mm)	Stand Drawer Included
20809573	110V	1	NEMA 5-15	60	U.S.A	8	16, 19, 23, 27, 31, 34, 43, 50	✓
20969061	220V	1	NEMA 6-20	60	U.S.A	8	16, 19, 23, 27, 31, 34, 43, 50	✓
20809574	110V	1	NEMA 5-15	60	Canada	8	16, 19, 23, 27, 31, 34, 43, 50	✓
20833029	110V	1	NEMA 5-15	60	U.S.A	5	16, 19, 23, 31, 41	✓
20888688	110V	1	NEMA 5-15	60	Canada	5	16, 19, 23, 31, 41	
20809571	110V	1	NEMA 5-15	60	U.S.A	None		
20809572	110V	1	NEMA 5-15	60	Canada	None		
20913958	12VDC	1	Jumper Cables	N/A	Any	None		

For additional accessories and replacement parts, please reference the Crimper Operator's Manual.

EQUIPMENT & ACCESSORIES



# PC125PS (Positive Stop) Series Crimper

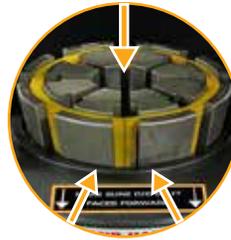
The PC125PS is a Positive Stop crimper capable of crimping 2-wire braid hose and 4-wire spiral hose up to 1" ID. The crimp diameter is controlled through the use of specific die and spacer combinations. The PC125PS is packaged for shop service.

The PC125PS standard package includes: Adjustable retraction stop, removable pusher, standard psw pressure plate, (psw notched pressure plate only for SAP# 20871410), adjustable coupling stop, pneumatic start/stop pendant switch, Continental digital caliper, die removal magnet, and CRIMPX die lubricant oil with dauber cap.

## FEATURES

### PC125PS TOOLING

- › Easy to use crimping tooling
- › Only requires specific die and spacer within specifications to crimp the hose assembly



Crimp diameter is controlled by specific die and spacer combinations.



Easy lubrication maintenance.



Open design allows the operator to accurately position the fitting prior to crimping.



Ideal notched pressure plate when crimping 90° fittings.



Retraction Stop limits ram retraction for quick repetitive crimps.



Crimper can be mounted on the PC125 Stand/Drawer where dies and crimping tools can be stored.

## PC125PS (Positive Stop) Series Crimper

### CAPABILITY

> (-16) SG Fittings

Compatible only with the following hose:  
SR1SN, SR2SN, SR/XR/ARC16SC, SCP3,  
XCP3, FPII, SR/AR12 and HR4

### TECHNICAL DATA

**CRIMPING FORCE** 60 ton

**WEIGHT** 150 lbs. (crimper only)

**DIMENSIONS** 22 ½" L x 13" W x 22 ½" H

**DIE SERIES** PC125RCD

**OIL CAPACITY** 1 gallon



### AVAILABLE CONFIGURATIONS

SAP #	Voltage	Phase	Plug	Hertz	Country Approved	Dies Included	Die Sizes (in.)	Spacers Included	Spacer Sizes (in.)
20871410	110V	1	NEMA 5-15	60	U.S.A	8	0.650, 0.785, 0.930, 1.120, 1.260, 1.410, 1.610, 1.680	11	0.085, 0.110, 0.130, 0.145, 0.160, 0.175, 0.190, 0.220, 0.250, 0.300, 0.400
20888687	220V	1	NEMA 6-20	60	Canada	8	0.650, 0.785, 0.930, 1.120, 1.260, 1.410, 1.610, 1.680	11	0.085, 0.110, 0.130, 0.145, 0.160, 0.175, 0.190, 0.220, 0.250, 0.300, 0.400
20815352	110V	1	NEMA 5-15	60	U.S.A	None		None	

For additional accessories and replacement parts, please reference the Crimper Operator's Manual.

EQUIPMENT & ACCESSORIES



# PC150 Standard Series Crimper

The PC150 is a stationary crimper with more power to manufacture factory-quality hose assemblies quickly and easily. Its open design with removable pusher and “slide in” die configuration allows for good visibility and easy loading of dies and hose assemblies. Crimp diameter is set and controlled with an easy-to-read metric micrometer. Designed to handle higher volumes in a shop environment.

The PC150 standard package includes: Metric micrometer, electronic stop switch, adjustable retraction stop, removable pusher, standard compression ring, adjustable coupling stop, pneumatic start/stop pendant switch, spare set of springs and screws, Continental digital caliper, and CRIMPX die lubricant grease can w/ brush.

## FEATURES

### IDEAL FOR THE WORKSHOP ENVIRONMENT

- › 80 tons of crimping force
- › Two piece “slide-in” die design for easy installation
- › Retraction stop and electronic stop switch combine to speed up repetitive crimps



PC150 Standard Dies



Micrometer style adjustment is fully adjustable for a precise crimp.



Retraction stop limits ram retraction for quick repetitive crimps.



Open design allows the operator to accurately position the fitting prior to crimping.



Coupling stop makes repetitive crimps faster by not having to visually align the fitting before each crimp.



Electronic stop switch shuts the pump off when the crimp cycle is complete.



Easy calibration adjustment to increase or decrease the crimp diameter.

## PC150 Standard Series Crimper

### CAPABILITY

- > (1½") B2 Fittings
- > (1¼") SG Fittings

### TECHNICAL DATA

**CRIMPING FORCE** 80 ton

**WEIGHT** 305 lbs. (crimper only)

**DIMENSIONS** 32" L x 17" W x 29" H

**DIE SERIES** PC150 Standard

**OIL CAPACITY** 1 gallon



### AVAILABLE CONFIGURATIONS

SAP #	Voltage	Phase	Plug	Hertz	Country Approved	Dies Included	Die Sizes (mm)	Stand Drawer Included
20244967	110V	1	NEMA 5-15	60	U.S.A	9	16, 19, 23, 27, 31, 34, 41, 50, 56	✓
20244966	220V	1	NEMA 6-20	60	U.S.A	9	16, 19, 23, 27, 31, 34, 41, 50, 56	✓
20298225	110V	1	NEMA 5-15	60	Canada	9	16, 19, 23, 27, 31, 34, 41, 50, 56	✓
20298226	220V	1	NEMA 5-15	60	Canada	9	16, 19, 23, 27, 31, 34, 41, 50, 56	✓
21082113	12VDC	1	Jumper Cables	N/A	Any	9	16, 19, 23, 27, 31, 34, 41, 50, 56	✓
20244941	110V	1	NEMA 5-15	60	U.S.A	None		
20244942	220V	1	NEMA 6-20	60	U.S.A	None		
20298223	110V	1	NEMA 5-15	60	Canada	None		
20298224	220V	1	NEMA 6-20	60	Canada	None		

For additional accessories and replacement parts, please reference the Crimper Operator's Manual.

EQUIPMENT & ACCESSORIES



# PC150 Double-Angle Series Crimper

The PC150 is a stationary crimper with more power to manufacture factory-quality hose assemblies quickly and easily. Its open design with removable pusher and “two halves double angle” die configuration allows for good visibility and easy loading of dies and hose assemblies. Crimp diameter is set and controlled with an easy-to-read metric micrometer. Designed to handle higher volumes in a shop environment. The PC150 standard package includes: Metric micrometer, electronic stop switch, adjustable retraction stop, removable pusher, double angle top and base, adjustable coupling stop, pneumatic start/stop pendant switch, spare bag of springs and screws, Continental digital caliper, and CRIMPX die lubricant grease can w/ brush.

## FEATURES

- › Easy functions to enable a quick and accurate change from PC150 dies to PC150 Double Angle dies
- › Handles higher volumes in a shop environment
- › Open design allows easy loading of die and hose assemblies
- › PC150 Spacer Kit ideal for crimping extra-long elbow fittings
- › Adds exactly 1" between the pusher and DBL TOP cone to allow extra fitting clearance



Micrometer style adjustment is fully adjustable for a precise crimp.



Retraction stop limits ram retraction for quick repetitive crimps.



Open design allows the operator to accurately position the fitting prior to crimping.



Electronic stop switch shuts the pump off when the crimp cycle is complete.



PC150 spacer kit ideal for crimping extra long elbow fittings.



Easy calibration adjustment to increase or decrease the crimp diameter.

## PC150 Double-Angle Series Crimper

### CAPABILITY

- > ¼" - 2" B2 Fittings
- > 1½" SG Fittings

### TECHNICAL DATA

**CRIMPING FORCE** 80 ton

**WEIGHT** 275 lbs. (crimper only)

**DIMENSIONS** 32" L x 17" W x 29" H

**DIE SERIES** PC150

**OIL CAPACITY** 1 gallon



### AVAILABLE CONFIGURATIONS

SAP #	Voltage	Phase	Plug	Hertz	Country Approved	Dies Included	Die Sizes (mm)	Stand Drawer Included
21095559	110V	1	NEMA 5-15	60	U.S.A	10	16, 19, 23, 27, 31, 34, 41, 50, 56 + (53DA)	✓
21095558	220V	1	NEMA 6-20	60	U.S.A	10	16, 19, 23, 27, 31, 34, 41, 50, 56 + (53DA)	✓
21095950	110V	1	NEMA 5-15	60	Canada	10	16, 19, 23, 27, 31, 34, 41, 50, 56 + (53DA)	✓
21095951	220V	1	NEMA 6-20	60	Canada	10	16, 19, 23, 27, 31, 34, 41, 50, 56 + (53DA)	✓

For additional accessories and replacement parts, please reference the Crimper Operator's Manual.

EQUIPMENT & ACCESSORIES



# PC150HD Series Crimper

The PC150HD crimper is a compact engineered design to handle higher volumes in a shop environment. This crimper features a dial micrometer and with 240 tons of crimping force, has the capability to crimp up to 2" industrial hose. The standard package for the PC150HD includes the dial micrometer, foot switch, 84mm quick-change tool, 9 station die rack, manual back stop, protective master die foam pads, a Continental digital crimper and a mini grease gun with CRIMPX die lubricant grease.

## FEATURES

- › Easy operating control system
- › Visible oil level through the sight glass and two oil drain ports
- › Compact design to fit in workshops and for on-site services
- › Complete range of dies and accessories available



Dial micrometer is fully adjustable providing speed, precision and repeatability.



Easy operating control system using the open/close green push button on the foot switch.



Manual back stop speeds multiple crimps of the same hose and fitting.



Easy grease maintenance through the 8 lubrication fittings.



Quick change tool makes die changes a quick and simple process.



Foot switch permits dies to be "jogged" into position and keeps both hands free.

# PC150HD Series Crimper

## TECHNICAL DATA

**CRIMPING FORCE** 240 ton

**WEIGHT** 400 lbs. (crimper only)

**DIMENSIONS** 17 1/2" L x 25" W x 25" H

**DIE SERIES** PC150

**OIL CAPACITY** 6 gallon

## CAPABILITY

- › 1/4" - 2" ID, B2's (braided hose) and up to 1 1/4" SG (6-spiral hose) with all coupling end styles and most bent tubes.

## CALIPERS

All crimpers include a Continental caliper.



Standard  
SAP 20926932  
*Ships with crimper*



Notched  
SAP 20926931

## AVAILABLE CONFIGURATIONS

SAP #	Voltage	Phase	Plug	Hertz	Country Approved	Dies Included	Die Sizes (mm)	9-Station Die Rack Included
21053598	110V	1	NEMA 5-15	60	U.S.A	12	16, 19, 23, 27, 31, 34, 41, 45, 50, 53, 56, 69	✓
21053599	220V	1	NEMA 6-20	60	U.S.A	12	16, 19, 23, 27, 31, 34, 41, 45, 50, 53, 56, 69	✓



Sight glass to monitor oil level  
Oil drain ports

For additional accessories and replacement parts, please reference the Crimper Operator's Manual.

# PC200M Series Crimper

The PC200M crimper is a compact engineered design to handle higher volumes in a shop environment. With the dial micrometer and 340 tons of crimping force, it has the capability to crimp up to 3" industrial hose.

The PC200M standard package includes: Dial micrometer, foot switch, 99mm QCT, PC200 Rack, manual back stop, protective master die foam pads, 1 adapter die set, adapter die removal tool, spare set of die studs and QCT pins, Continental digital caliper, and mini grease gun w/ CRIMPX die lubricant grease tube.

## FEATURES

### PC200 RACK

- › The PC200M crimper comes with a 5 die storage pockets panel installed
- › The PC200M crimper can be mounted on top of the PC200 Rack
- › The PC200 Rack is a machine stand with 16 PC200 die storage pockets to keep frequently used die sets readily available



Dial micrometer is fully adjustable, provides speed, precision and repeatability.



Quick change tool makes die changes a quick and simple process.



Manual back stop speeds multiple crimps of the same hose and fitting.



Easy grease maintenance through the 8 lubrication fittings.



5 die storage pockets panel installed to keep frequently used die sets readily available.



The Foot switch permits dies to be "jogged" into position and keeps both hands free.

## PC200M Series Crimper

### CAPABILITY

- › 1/4" - 2" ID, 2-braid hose and 2" 6-spiral hose with all coupling end styles and most bent tubes

### TECHNICAL DATA

**CRIMPING FORCE** 340 ton

**WEIGHT** 635 lbs. (crimper only)

**DIMENSIONS** 20" L x 29" W x 32" H

**HYDRAULIC DIE SERIES** PC200

**ADAPTER DIE SERIES** 130MM - 99MM

**OIL CAPACITY** 8 gallon



### AVAILABLE CONFIGURATIONS

SAP #	Voltage	Phase	Plug	Hertz	Country Approved	Dies Included	Die Sizes (mm)	PC200 Rack Included
20442513	230V	1	NEMA L6-30P	60	U.S.A	14	16, 19, 23, 27, 31, 34, 41, 45, 50, 53, 59, 62, 74, 78	✓
21095952	230V	3	NEMA L15-20P	60	U.S.A	14	16, 19, 23, 27, 31, 34, 41, 45, 50, 53, 59, 62, 74, 78	✓
21095953	440-480V	3	NEMA L1620P	60	U.S.A	14	16, 19, 23, 27, 31, 34, 41, 45, 50, 53, 59, 62, 74, 78	✓
21007698	24VDC	1	Jumper Cables	N/A	Any	14	16, 19, 23, 27, 31, 34, 41, 45, 50, 53, 59, 62, 74, 78	✓

For additional accessories and replacement parts, please reference the Crimper Operator's Manual.

EQUIPMENT & ACCESSORIES



# PC200i Series with CrimpIQ™ Controller

The PC200i is a high-volume, high-capacity stationary crimper featuring the Continental CrimpIQ™ Controller powered by Continental Fluid Solutions technology. This technology provides direct access to all crimping specifications and information. It supports a user-friendly interface to guide new and advanced users through the crimping process quickly and easily. Crimp settings, dwell time, pre-start positions and auto/manual operations are all easily set with electronic controls.

The PC200i standard package includes: 10-inch color capacitive touch screen, foot switch, 99mm QCT, manual back stop, PC200 Rack, protective master die foam pads, 1 adapter die set, adapter die removal tool, spare set of die studs and QCT pins, Continental bluetooth digital caliper, and mini grease gun w/ CRIMPX die lubricant grease tube.

## FEATURES

### PC200 RACK

- › The PC200i crimper can be mounted on the PC200 Rack
- › The PC200 Rack is a machine stand with 16 PC200 die storage pockets to keep frequently used die sets readily available



Continental CrimpIQ™ controller, the future of crimping at your fingertips.



10-inch color capacitive touch screen and user friendly navigation.



Intuitive screens lead the operator through the setup and crimping process.



CrimpIQ™ controller supports bluetooth calipers to input crimp diameter measurements.



Easy grease maintenance through the 8 lubrication fittings.



Quick change tool makes die changes a quick and simple process.

## PC200i Series with CrimpIQ™ Controller

### CAPABILITY

- › 1/4" – 2" ID, 2-braid hose and 2" 6-spiral hose with all coupling end styles and most bent tubes

### TECHNICAL DATA

**CRIMPING FORCE** 340 ton

**WEIGHT** 635 lbs. (crimper only)

**DIMENSIONS** 20" L x 29" W x 32" H

**HYDRAULIC DIE SERIES** PC200

**ADAPTER DIE SERIES** 130MM – 99MM

**OIL CAPACITY** 8 gallon



### AVAILABLE CONFIGURATIONS

SAP #	Voltage	Phase	Plug	Hertz	Country Approved	Dies Included	Die Sizes (mm)	PC200 Rack Included
21006081	230V	1	NEMA L6-30P	60	U.S.A	14	16, 19, 23, 27, 31, 34, 41, 45, 50, 53, 59, 62, 74, 78	✓
21006080	230V	3	NEMA L15-20P	60	U.S.A	14	16, 19, 23, 27, 31, 34, 41, 45, 50, 53, 59, 62, 74, 78	✓
21006011	440-480V	3	NEMA L16-20P	60	U.S.A	14	16, 19, 23, 27, 31, 34, 41, 45, 50, 53, 59, 62, 74, 78	✓
21006082	230V	1	NEMA L6-30P	60	Canada	14	16, 19, 23, 27, 31, 34, 41, 45, 50, 53, 59, 62, 74, 78	✓
21006083	230V	3	NEMA L1530-P	60	Canada	14	16, 19, 23, 27, 31, 34, 41, 45, 50, 53, 59, 62, 74, 78	✓
21006013	575V	3	Not Supplied	60	Canada	14	16, 19, 23, 27, 31, 34, 41, 45, 50, 53, 59, 62, 74, 78	✓
21006005	230V	1	NEMA L6-30P	60	U.S.A	None		✓
21006000	230V	3	NEMA L15-20P	60	U.S.A	None		✓

For additional accessories and replacement parts, please reference the Crimper Operator's Manual.

EQUIPMENT & ACCESSORIES



# PC440i Series with CrimpIQ™ Controller

The PC440i features the Continental CrimpIQ™ Controller powered by Continental Fluid Solutions technology, providing direct access to all crimping specifications and information. It supports a user-friendly interface to guide new and advanced users through the crimping process quickly and easily. The PC440i can track the number of crimps and automatically pause for a quality-check at preset intervals. Its pressure transducer monitors crimping “effort” eliminating trial-and-error crimping.

The PC440i standard package includes: 10-inch color capacitive touch screen, adjustable mirror, foot switch, 99mm QCT, manual back stop, (1) adapter die set, adapter die removal T-handle hex, spare of die studs and QCT pins, Continental bluetooth digital caliper, and mini grease gun w/ CRIMPX die lubricant grease tube.

## FEATURES

### BUILT-IN DIE STORAGE

- › The PC440i crimper comes with 12 PC200 die storage pockets to keep frequently used die sets readily available

### MANUAL BACK STOP

- › The manual back stop speeds multiple crimps of the same hose and fitting

### GREASE MAINTENANCE

- › The lubrications fittings on the crimper makes grease maintenance easier to keep the crimper lubricated for a good performance



Continental CrimpIQ™ controller, the future of crimping at your fingertips.



10-inch color capacitive touch screen and user friendly navigation.



Intuitive screens lead the operator through the setup and crimping process.



CrimpIQ™ controller supports bluetooth calipers to input crimp diameter measurements.



Quick change tool makes die changes a quick and simple process.



Fixed 6 o'clock die position allows the operator to place the fitting on bottom die and crimp.

## PC440i Series with CrimpIQ™ Controller

### CAPABILITY

- › 1/4" - 2" ID, 2-braid hose and 2" 6-spiral hose and 4" industrial hose with all coupling end styles and most bent tubes
- › 1/2" - 4" ID industrial hose

### TECHNICAL DATA

**CRIMPING FORCE** 265 ton

**WEIGHT** 1,840 lbs. (crimper only)

**DIMENSIONS** 46 1/2" L x 52" W x 67" H

**HYDRAULIC DIE SERIES** PC200

**ADAPTER DIE SERIES** 160MM - 99MM

**INDUSTRIAL DIE SERIES** 160S

**OIL CAPACITY** 8 gallon



### AVAILABLE CONFIGURATIONS

SAP #	Voltage	Phase	Plug	Hertz	Country Approved	Dies Included	Die Sizes (mm)	Die Shelf Included
21006084	230V	1	NEMA L6-30P	60	U.S.A	14	16, 19, 23, 27, 31, 34, 41, 45, 50, 53, 59, 62, 74, 78	✓
21006085	230V	3	NEMA L15-20P	60	U.S.A	14	16, 19, 23, 27, 31, 34, 41, 45, 50, 53, 59, 62, 74, 78	✓
21095954	480V	3	NEMA L16-20P	60	U.S.A	14	16, 19, 23, 27, 31, 34, 41, 45, 50, 53, 59, 62, 74, 78	✓
21006007	230V	1	NEMA L6-30P	60	U.S.A	None		✓
21006002	230V	3	NEMA L15-20P	60	U.S.A	None		✓

For additional accessories and replacement parts, please reference the Crimper Operator's Manual.

EQUIPMENT & ACCESSORIES



# PC600i Series with CrimpIQ™ Controller

The PC600i is a high-volume, high-capacity stationary crimper featuring the Continental CrimpIQ™ Controller powered by Continental Fluid Solutions technology. This technology provides direct access to all crimping specifications and information. It supports a user-friendly interface to guide new and advanced users through the crimping process quickly and easily. The PC600i can produce 2,200 crimps per hour with 350 tons of crimping force to allow for both hydraulic and industrial hose assemblies.

The PC600i standard package includes: 10-inch color capacitive touch screen, adjustable mirror, foot switch, 99mm QCT, manual back stop, 1 adapter die set, adapter die removal T-handle hex, spare set of die studs and QCT pins, Continental bluetooth digital caliper, and mini grease gun w/ CRIMPX die lubricant grease tube.

## FEATURES

### BUILT-IN DIE STORAGE

- › The PC600i crimper comes with 16 PC200 die storage pockets and 6 industrial die storage shelves to keep frequently used die sets readily available

### MANUAL BACK STOP

- › The manual back stop speeds multiple crimps of the same hose and fitting

### GREASE MAINTENANCE

- › The lubrications fittings on the crimper makes grease maintenance easier to keep the crimper lubricated for a good performance



Continental CrimpIQ™ controller, the future of crimping at your fingertips.



10-inch color capacitive touch screen and user friendly navigation.



Intuitive screens lead the operator through the setup and crimping process.



CrimpIQ™ controller supports bluetooth calipers to input crimp diameter measurements.



Quick change tool makes die changes a quick and simple process.



Use the foot pedal to close the crimper head when crimping in semi and full automatic mode.



## PC600i Series with CrimpIQ™ Controller

### CAPABILITY

- › 1/4" - 2½" ID, 2-braid and 6-spiral hydraulic hose
- › 3/16" - 6" ID industrial hose

### TECHNICAL DATA

**CRIMPING FORCE** 350 ton

**WEIGHT** 4,000 lbs. (crimper only)

**DIMENSIONS** 49" L x 54" W x 69" H

**HYDRAULIC DIE SERIES** PC200

**ADAPTER DIE SERIES** 160MM - 99MM

**INDUSTRIAL DIE SERIES** 160 OB

**OIL CAPACITY** 24 gallon



### AVAILABLE CONFIGURATIONS

SAP #	Voltage	Phase	Plug	Hertz	Country Approved	Dies Included	Die Sizes (mm)	Die Shelf Included
21006089	230V	1	NEMA L6-30P	60	U.S.A	22	16, 19, 23, 27, 31, 34, 41, 45, 50, 53, 59, 62, 74, 78, 84, 92, 100, 108, 116, 126, 166, 178	✓
21006088	230V	3	NEMA L15-20P	60	U.S.A	22	16, 19, 23, 27, 31, 34, 41, 45, 50, 53, 59, 62, 74, 78, 84, 92, 100, 108, 116, 126, 166, 178	✓
21006090	440-480V	3	NEMA L16-20P	60	U.S.A	22	16, 19, 23, 27, 31, 34, 41, 45, 50, 53, 59, 62, 74, 78, 84, 92, 100, 108, 116, 126, 166, 178	✓
21006087	230V	1	NEMA L6-30P	60	U.S.A	14	16, 19, 23, 27, 31, 34, 41, 45, 50, 53, 59, 62, 74, 78	✓
21006086	230V	3	NEMA L15-20P	60	U.S.A	14	16, 19, 23, 27, 31, 34, 41, 45, 50, 53, 59, 62, 74, 78	✓
21006021	440-480V	3	NEMA L16-20P	60	U.S.A	14	16, 19, 23, 27, 31, 34, 41, 45, 50, 53, 59, 62, 74, 78	✓
21006008	230V	1	NEMA L6-30P	60	U.S.A	None		✓
21006003	230V	3	NEMA L15-20P	60	U.S.A	None		✓

For additional accessories and replacement parts, please reference the Crimper Operator's Manual.

EQUIPMENT & ACCESSORIES



# PC1000i Series with CrimpIQ™ Controller

The PC1000i is a high-volume, high-capacity stationary crimper featuring the Continental CrimpIQ™ Controller powered by Continental Fluid Solutions technology. This technology provides direct access to all crimping specifications and information. It supports a user-friendly interface to guide new and advanced users through the crimping process quickly and easily. The PC1000i can produce 1,415 crimps per hour with 485 tons of crimping force to allow for both hydraulic and industrial hose assemblies and is ideal for production assembly applications.

The PC1000i standard package includes: 10-inch color capacitive touch screen, adjustable mirror, foot switch, 99mm QCT, manual back stop, 2 adapter die sets, adapter die removal T-handle hex, spare set of die studs and QCT pins, Continental bluetooth digital caliper, and mini grease gun w/ CRIMPX die lubricant grease tube.

## FEATURES

### BUILT-IN DIE STORAGE

- › The PC1000i crimper comes with 15 PC200 die storage pockets and 10 industrial die storage shelves to keep frequently used die sets readily available

### MANUAL BACK STOP

- › The manual back stop speeds multiple crimps of the same hose and fitting

### GREASE MAINTENANCE

- › The lubrications fittings on the crimper makes grease maintenance easier to keep the crimper lubricated for a good performance



Continental CrimpIQ™ controller, the future of crimping at your fingertips.



10-inch color capacitive touch screen and user friendly navigation.



Intuitive screens lead the operator through the setup and crimping process.



CrimpIQ™ controller supports bluetooth calipers to input crimp diameter measurements.



Quick change tool makes die changes a quick and simple process.



Use the foot pedal to close the crimper head when crimping in semi and full automatic mode.

## PC1000i Series with CrimpIQ™ Controller

### CAPABILITY

- › Up to 2½" ID, 2-braided, 4-spiral and 6-spiral hydraulic hose
- › 3/16" - 10" ID industrial hose

### TECHNICAL DATA

**CRIMPING FORCE** 485 ton

**WEIGHT** 6,185 lbs. (crimper only)

**CRIMPER DIMENSIONS** 54" L x 62" W x 86" H

**POWER UNIT DIMENSIONS** 28" L x 33½" W x 45" H

**HYDRAULIC DIE SERIES** PC200

**ADAPTER DIE SERIES** 230MM - 145MM  
145MM - 99MM

**INDUSTRIAL DIE SERIES** 230 OB

**OIL CAPACITY** 45 gallon



### AVAILABLE CONFIGURATIONS

SAP #	Voltage	Phase	Plug	Hertz	Country Approved	Dies Included	Die Sizes (mm)	Die Shelf Included
21071067	230V	1	NEMA L6-30P	60	U.S.A	24	16, 19, 23, 27, 31, 34, 41, 45, 50, 53, 59, 62, 74, 78, 84, 92, 100, 108, 116, 126, 166, 178, 215, 245	✓
21006091	230V	3	NEMA L15-20P	60	U.S.A	24	16, 19, 23, 27, 31, 34, 41, 45, 50, 53, 59, 62, 74, 78, 84, 92, 100, 108, 116, 126, 166, 178, 215, 245	✓
21006009	230V	1	NEMA L6-30P	60	U.S.A	None		✓
21006004	230V	3	NEMA L15-20P	60	U.S.A	None		✓

For additional accessories and replacement parts, please reference the Crimper Operator's Manual.

EQUIPMENT & ACCESSORIES



# PC1200i Series with CrimpIQ™ Controller

The PC1200i is a high-volume, high-capacity stationary crimper featuring the Continental CrimpIQ™ Controller powered by Continental Fluid Solutions technology. This technology provides direct access to all crimping specifications and information. It supports a user-friendly interface to guide new and advanced users through the crimping process quickly and easily. The PC1200i can produce 830 tons of crimping force to allow for both hydraulic and industrial hose assemblies and is ideal for production assembly applications.

The PC1200i standard package includes: 10-inch color capacitive touch screen, foot switch, 99mm QCT, 3 adapter die sets, adapter die removal T-handle hex, spare set of die studs and QCT pins, Continental bluetooth digital caliper, and large grease gun w/ CRIMPX die lubricant grease tube.

## FEATURES

### BUILT-IN DIE STORAGE CABINETS

- › The PC1200i crimper comes with front and back die storage cabinets
- › 15 PC200 die storage pockets and 16 industrial die storage shelves to keep frequently used die sets readily available or any crimping accessories

### GREASE MAINTENANCE

- › The lubrications fittings on the crimper makes grease maintenance easier to keep the crimper lubricated for a good performance



Continental CrimpIQ™ controller, the future of crimping at your fingertips.



10-inch color capacitive touch screen and user friendly navigation.



Intuitive screens lead the operator through the setup and crimping process.



CrimpIQ™ controller supports bluetooth calipers to input crimp diameter measurements.



Quick change tool makes die changes a quick and simple process.



Use the foot pedal to close the crimper head when crimping in semi and full automatic mode.

## PC1200i Series with CrimpIQ™ Controller

### CAPABILITY

- > Up to 2½" ID, 2-braided, 4-spiral and 6-spiral hydraulic hose
- > 3/16" - 12" ID industrial hose

### TECHNICAL DATA

**CRIMPING FORCE** 830 ton

**WEIGHT** 10,000 lbs. (crimper only)

**CRIMPER DIMENSIONS** 60" L x 56" W x 78" H

**POWER UNIT DIMENSIONS** 36" L x 48" W x 60" H

**HYDRAULIC DIE SERIES** PC200

**ADAPTER DIE SERIES** 330MM - 230MM  
230MM - 160MM  
160MM - 99MM

**INDUSTRIAL DIE SERIES** 160S/230XL/330S/330-OB

**OIL CAPACITY** 80 gallon



### AVAILABLE CONFIGURATIONS

SAP #	Voltage	Phase	Plug	Hertz	Country Approved	Dies Included	Die Sizes (mm)	Die Shelf Included
21023980	440-480V	3	NEMA L16-20P	60	U.S.A.	25	41, 45, 50, 53, 56, 62, 69, 75, 74, 78, 84, 92, 100, 108, 116, 126, 166, 178, 190, 215, 245, 281, 311, 333, 349	✓

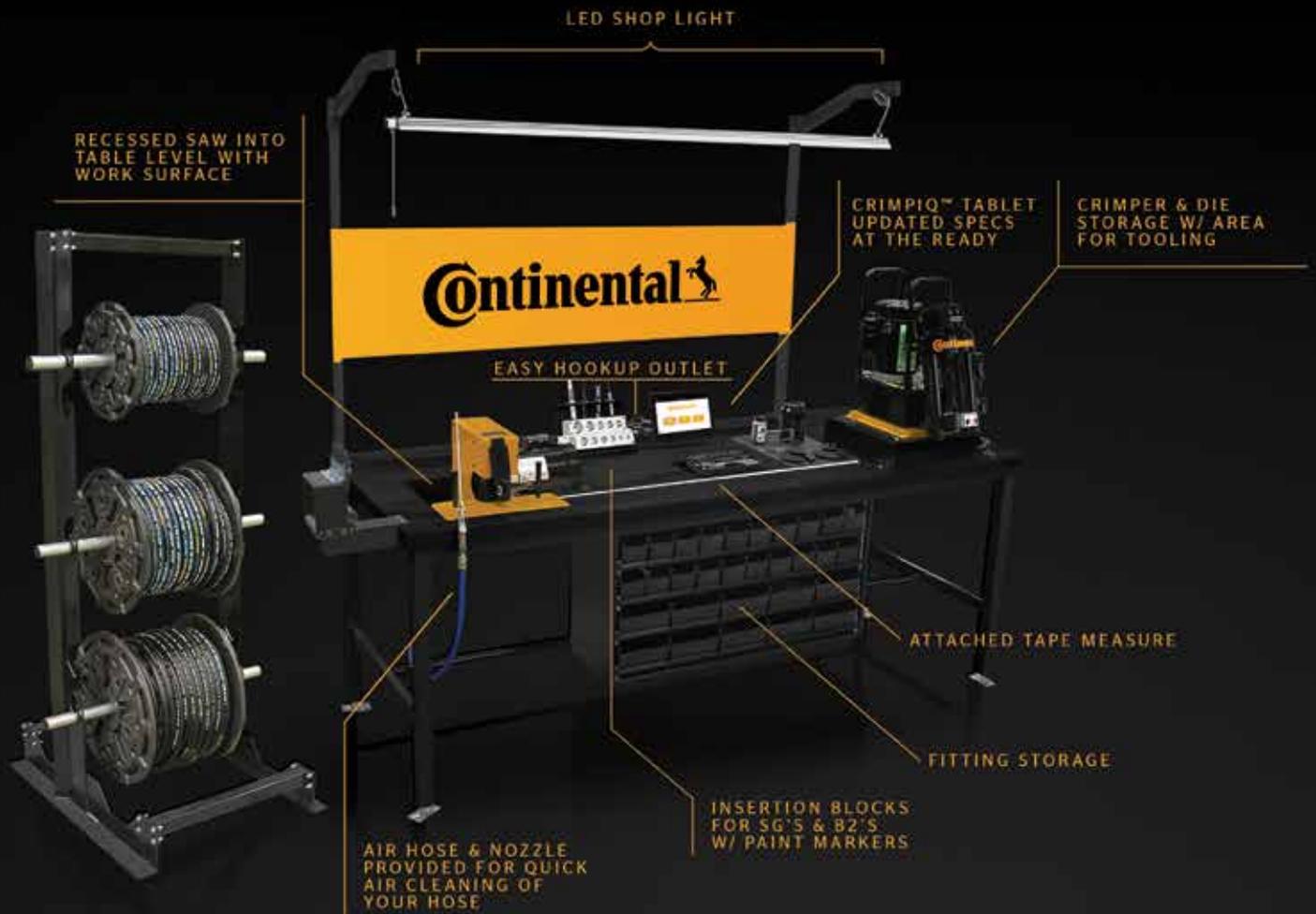
For additional accessories and replacement parts, please reference the Crimper Operator's Manual.

EQUIPMENT & ACCESSORIES





# SHOP IN A BOX SOLUTIONS MADE EASY



## GENERATE MORE REVENUE WITH CONTINENTAL'S SHOP IN A BOX

Now you can create a hydraulic and industrial hose crimp shop right inside your current location with Continental's Shop In A Box. This turnkey set up contains a crimper and all the accessories you need to produce premium Continental assemblies.



## SHOP IN A BOX CONFIGURATIONS

PC125-RCD



PC150



PC150HD



PC200i



# PC125-RCD SHOP IN A BOX

Now you can create a hydraulic hose crimp shop right inside your current location with PC125-RCD Shop in a Box. This turnkey setup is a new assembly solution containing a hose saw, crimper and all the accessories you need to produce premium Continental assemblies.

## FEATURES

### FULL TURNKEY SOLUTION

- › Everything you need right inside your current location
- › To produce premium Continental hydraulic hose assemblies

## CAPABILITY

- › The PC125-RCD is designed to crimp (-20) B2 Fittings and (-16) SG Fittings
- › The HS-150 is designed to cut 1- and 2-braid hydraulic hose up to 1 ½" ID and up to 1 ¼" 4-spiral hose



# PC125-RCD SHOP IN A BOX



PC125-RCD Shop in a Box Standard Package Includes:	
1 24 in. Hose Reel Rack (Hose spools not included)	8 CrimpIQ™ Tablet and Mounting Arm
2 6'LED Light Kit	9 Tape Measure
3 6' Continental Sign	10 PC125-RCD Tooling Box, and Tooling Mat
4 Hose Helper	11 PC125-RCD Crimper (Dies, Drawer, and Tooling Box)
5 10' Continental Air Hose with Nozzle	12 5' 110V Power Strip
6 HS-150 Hose Saw (Handle, Vacuum Port, and Alignment Pins)	13 4 Drawer Cabinet with Small and Large Bins
7 Insertion Block Assembly (B2 and SG blocks, 5 Paint Markers)	14 Adjustable Feet

SAP #	HS-150							
	Voltage	Phase	Plug	Hertz	Country Approved	Hose Helper Included	Serrated Blade, Hose Bending Pins & 1/4" Vacuum Adapter Included	24" Hose Reel Rack Included
21091383	110V	1	NEMA 5-15	60	U.S.A	✓	✓	✓
	PC125-RCD							
	Voltage	Phase	Plug	Hertz	Country Approved	Dies Included	Die Sizes (mm)	24" Hose Reel Rack Included
	110V	1	NEMA 5-15	60	U.S.A	8	16, 19, 23, 27, 31, 34, 43, 50	✓

For additional accessories and replacement parts, please reference the Crimper Operator's Manual.

EQUIPMENT & ACCESSORIES



# PC150 SHOP IN A BOX

Now you can create a hydraulic hose crimp shop right inside your current location with PC150 Shop in a Box. This turnkey setup is a new assembly solution containing a hose saw, crimper and all the accessories you need to produce premium Continental assemblies.

## FEATURES

### FULL TURNKEY SOLUTION

- › Everything you need right inside your current location
- › To produce premium Continental hydraulic hose assemblies

## CAPABILITY

- › The PC150 is designed to crimp 1½" B2 Fittings and 1¼" SG Fittings
- › The HS-501 is designed to cut 1- and 2-braid hydraulic hose up to 2" ID and up to 2" 4- or 6-spiral hose



# PC150 SHOP IN A BOX



PC150 Shop in a Box Standard Package Includes:	
1 36" Hose Reel Rack (Hose spools not included)	9 Tape Measure
2 6' LED Light Kit	10 PC150-2 Tooling Box, and Tooling Mat
3 6' Continental Sign	11 PC150-2 Crimper (Dies, Shelf and Tooling Box)
4 Hose Helper	12 5' 110V Power Strip
5 10' Continental Air Hose with Nozzle	13 4 Drawer Cabinet with Small and Large Bins
6 HS-501 Hose Saw (Handle, Vacuum Port, and Alignment Pins)	14 Die Shelf
7 Insertion Block Assembly (B2 and SG blocks, 5 Paint Markers)	15 Adjustable Feet
8 CrimpIQ™ Tablet and Mounting Arm	

SAP #	HS-501							
	Voltage	Phase	Plug	Hertz	Country Approved	Hose Helper Included	Serrated Blade, Hose Bending Pins & 1/4" Vacuum Adapter Included	36" Hose Reel Rack Included
21091384	230V	1	NEMA L6-30P	60	U.S.A	✓	✓	✓
	PC150							
	Voltage	Phase	Plug	Hertz	Country Approved	Dies Included	Die Sizes (mm)	36" Hose Reel Rack Included
	220V	1	NEMA 6-20	60	U.S.A	9	16, 19, 23, 27, 31, 34, 41, 50, 56	✓

For additional accessories and replacement parts, please reference the Crimper Operator's Manual.

# PC150HD SHOP IN A BOX

Now you can create a hydraulic hose crimp shop right inside your current location with PC150HD Shop in a Box. This turnkey setup is a new assembly solution containing a hose saw, crimper and all the accessories you need to produce premium Continental assemblies.

## FEATURES

### FULL TURNKEY SOLUTION

- › Everything you need right inside your current location
- › To produce premium Continental hydraulic hose assemblies

## CAPABILITY

- › PC150HD is designed to crimp 1/4" - 2" ID, 2-braid hose and 1 1/4" 6-spiral hose with all coupling end styles and most bent tubes.
- › The HS-501 is designed to cut 1- and 2-braid hydraulic hose up to 2" ID and up to 2" 4- or 6-spiral hose



# PC150HD SHOP IN A BOX



PC150HD Shop in a Box Standard Package Includes:	
1 36" Hose Reel Rack (Hose spools not included)	9 Tape Measure
2 6' LED Light Kit	10 PC150HD Tooling Box, and Tooling Mat
3 6' Continental Sign	11 PC150HD Crimper (Dies, Rack, and Tooling Box)
4 Hose Helper	12 Die Rack
5 10' Continental Air Hose with Nozzle	13 4 Drawer Cabinet with Small and Large Bins
6 HS-501 Hose Saw (Handle, Vacuum Port, and Alignment Pins)	14 Foot Pedal
7 Insertion Block Assembly (B2 and SG blocks, 5 Paint Markers)	15 Adjustable Feet
8 CrimpIQ™ Tablet and Mounting Arm	16 5' 110V Power Strip

SAP #	HS-501							
	Voltage	Phase	Plug	Hertz	Country Approved	Hose Helper Included	Serrated Blade, Hose Bending Pins & 1/4" Vacuum Adapter Included	36" Hose Reel Rack Included
21100773	230V	1	NEMA L6-30P	60	U.S.A	✓	✓	✓
	PC150HD							
	Voltage	Phase	Plug	Hertz	Country Approved	Dies Included	Die Sizes (mm)	36" Hose Reel Rack Included
	220V	1	NEMA 6-20	60	U.S.A	12	16, 19, 23, 27, 31, 34, 41, 45, 50, 53, 56, 69	✓

For additional accessories and replacement parts, please reference the Crimper Operator's Manual.

EQUIPMENT & ACCESSORIES



# PC200i SHOP IN A BOX

Now you can create a hydraulic hose crimp shop right inside your current location with PC200i Shop in a Box. This turnkey setup is a new assembly solution containing a hose saw, crimper and all the accessories you need to produce premium Continental assemblies.

## FEATURES

### FULL TURNKEY SOLUTION

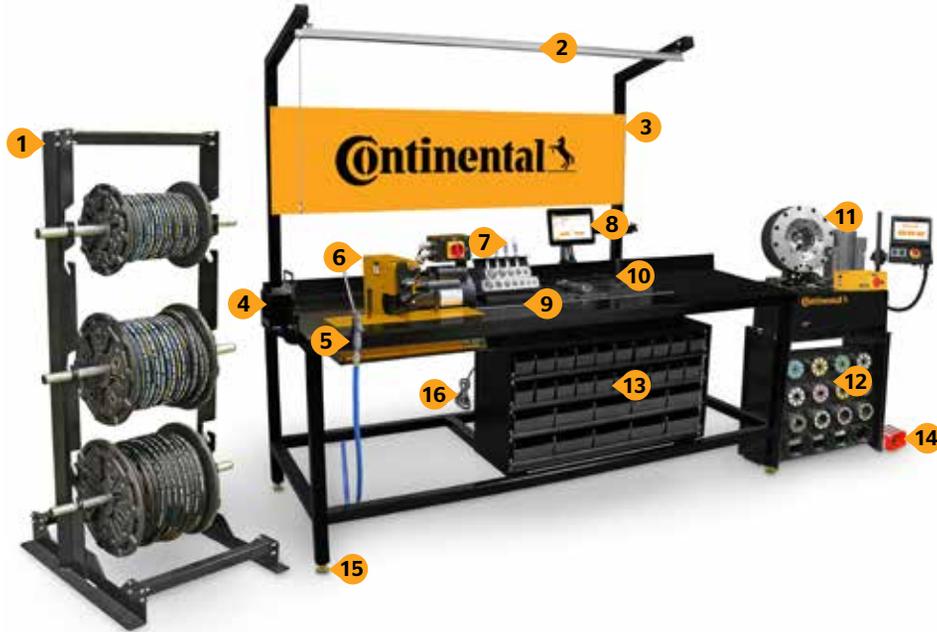
- › Everything you need right inside your current location
- › To produce premium Continental hydraulic hose assemblies

## CAPABILITY

- › PC200i is designed to crimp 1/4" - 2" ID, 2-braid hose and 2" 6 spiral hose with all coupling end styles and most bent tubes.
- › The HS-501 is designed to cut 1- and 2-braid hydraulic hose up to 2" ID and up to 2" 4- or 6-spiral hose



# PC200i SHOP IN A BOX



PC200i Shop in a Box Standard Package Includes:	
1 36" Hose Reel Rack (Hose spools not included)	9 Tape Measure
2 6' LED Light Kit	10 PC200i Tooling Box, and Tooling Mat
3 6' Continental Sign	11 PC200i Crimper (Dies, PC200 Rack, and Tooling Box)
4 Hose Helper	12 PC200-Rack
5 10' Continental Air Hose with Nozzle	13 4 Drawer Cabinet with Small and Large Bins
6 HS-501 Hose Saw (Handle, Vacuum Port, and Alignment Pins)	14 Foot Pedal
7 Insertion Block Assembly (B2 and SG blocks, 5 Paint Markers)	15 Adjustable Feet
8 CrimplQ™ Tablet and Mounting Arm	16 5' 110V Power Strip

SAP #	Voltage	Phase	Plug	Hertz	Country Approved	Dies Included	Die Sizes (mm)	36" Hose Reel Rack Included
21100775	230V	1	NEMA L6-30P	60	U.S.A	14	16, 19, 23, 27, 31, 34, 41, 45, 50, 53, 59, 62, 74, 78	✓
21100777	230V	3	NEMA L15-20P	60	U.S.A	14	16, 19, 23, 27, 31, 34, 41, 45, 50, 53, 59, 62, 74, 78	✓
21100518	440-480V	3	NEMA L16-20P	60	U.S.A	14	16, 19, 23, 27, 31, 34, 41, 45, 50, 53, 59, 62, 74, 78	✓

\*Please contact customer service for the hose saw voltage availability.

For additional accessories and replacement parts, please reference the Crimper Operator's Manual.

EQUIPMENT & ACCESSORIES



## PCTB “PLC” Test Benches

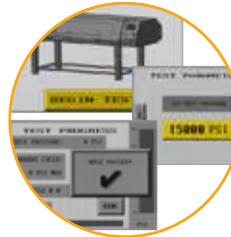
Whether you are producing a single assembly or a production run, Continental has the test equipment to give both you and your customer the assurance that the product has been assembled correctly. A programmable PLC Controller gives the operator the ability to pre-program and repeat a test sequence and print the results on the attached tape (optional save to USB).

### CUSTOMIZED AND SPECIAL DESIGN BENCHES

In addition to the standard Electronic “PLC” series test benches, special purpose test benches can be designed by our engineering department, as well as an extension trough can be designed to meet specific requirements.

### FEATURES

- › 6" touch screen and user friendly navigation
- › Full opening allows for hose assemblies to be loaded on a skid
- › Built-in work light to see the hose being tested
- › Storage drawer to keep frequently used tools and test bench accessories readily available



Intuitive screens lead the operator through the setup and test execution process.



Multi-port manifold outlet allows multiple hose assemblies to be tested at the same time.



Safety Switch activates and drops pressure as soon as the lid is opened.



Results of each test are recorded and can be printed on the included printer or saved via USB port.



Removable side panel permits the testing of longer hose assemblies with the attachment of an optional trough.



Available extension trough in 10 foot sections.

## PCTB “PLC” Test Benches

### CAPABILITY

#### Standard Test Benches

- › PCTB-1500 - Test pressure range to 21,500 psi (1,500 bar)
- › PCTB-2500 - Test pressure range to 37,500 psi (2,500 bar)

#### Industrial Test Benches

- › PCTB-350 - Test pressure range to 5,000 psi (350 bar)
- › PCTB-350/1500 - Test pressure range to 21,500 psi (1,500 bar)
- › PCTB-350/2500 - Test pressure range to 40,000 psi (2,500 bar)

### TECHNICAL DATA

**WEIGHT** 955 lbs.

#### INSIDE CABINET DIMENSIONS

67" L x 33" W x 17" H

#### OVERALL CABINET DIMENSIONS

##### Standard Test Bench

85" L x 39" W x 78" H (closed 52"H)

##### Industrial Test Bench

98" L x 50" W x 84" H (closed 65"H)



### AVAILABLE CONFIGURATIONS

SAP #	Voltage	Phase	Plug	Hertz	Standard PLC Bench	Industrial PLC Bench	Maximum Pressure	Low Pressure	Country Approved	Flowjet Booster Pump Included
20439764	110V	1	NEMA 5-15	50/60	✓		21,500 psi	5,000 psi	U.S.A	
20554089	110V	1	NEMA 5-15	50/60	✓		37,500 psi	5,000 psi	U.S.A	
20802395	110V	1	NEMA 5-15	50/60		✓	5,000 psi		U.S.A	✓
20907994	110V	1	NEMA 5-15	50/60		✓	21,500 psi	5,000 psi	U.S.A	✓
20783994	110V	1	NEMA 5-15	50/60		✓	40,000 psi	5,000 psi	U.S.A	✓

## PCTB “Manual” Test Benches

The Continental PCTB “Manual” Series Test Benches provide a safe and efficient method to test hose assemblies for burst or proof testing.

### CUSTOMIZED AND SPECIAL DESIGN BENCHES

In addition to the standard PCTB “Manual” series test benches, special purpose test benches can be designed by our engineering department, as well as an extension trough to meet specific requirements.

### FEATURES

- › User friendly control panel
- › Full opening allows for hose assemblies to be loaded on a skid
- › Built-in work light to see the hose being tested
- › Storage drawer to keep frequently used tools and test bench accessories readily available



Control panel with large dials and easy to use controls.



Multi-port manifold outlet allows multiple hose assemblies to be tested at the same time.



Safety Switch activates and drops pressure as soon as the lid is opened.



The air lubricator helps to assure the proper operation of the pump.



Removable side panel permits the testing of longer hose assemblies with the attachment of an optional trough.



Available extension trough in 10 foot sections.

## PCTB “Manual” Test Benches

### CAPABILITY

#### Standard Test Benches

- > PCTB-1500 - Test pressure range to 21,500 psi (1500 bar)
- > PCTB-2500 - Test pressure range to 37,500 psi (2500 bar)

### TECHNICAL DATA

**WEIGHT** 955 lbs.

#### INSIDE CABINET DIMENSIONS

67" L x 33" W x 17" H

#### OVERALL CABINET DIMENSIONS

85" L x 39" W x 78" H (closed 52"H)



### AVAILABLE CONFIGURATIONS

SAP #	Voltage	Phase	Plug	Hertz	Standard Manual Bench	Maximum Pressure	Low Pressure	Country Approved
20439763	110V	1	NEMA 5-15	50/60	✓	21,500 psi	5,000 psi	U.S.A
20554088	110V	1	NEMA 5-15	50/60	✓	37,500 psi	5,000 psi	U.S.A

## HS-150 Series Hose Saw

The HS-150 hose saw is a rugged, compact, and lightweight engineered design ideal for small workshops with a low maintenance cost.

The HS-150 standard package includes: Serrated blade, hose bending pins, and 1 ¼" vacuum adapter.

### FEATURES

- › Ideal for on-site service where electricity is not available
- › 3 types of blades are available for HS150 and HS-500 series: Serrated blade, Scalloped blade and Double Bevel w/ SS Slots blade



Vacuum port allows attachment of vacuum system to keep saw and work space clean.



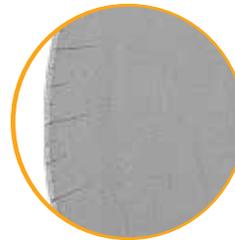
Hose Bending Pins prevent the blade from binding during a cut.



Serrated blade is for general purpose and is recommended to cut multi-spiral hose.



Scalloped blade is for general purpose and is recommended to cut multi-spiral hose.



Double bevel w/SS slots blade is recommended for braided hose with minimum debris during the cut.

## HS-150 Series Hose Saw

### CAPABILITY

- › The HS-150 is designed to cut 1- and 2-braid hydraulic hose up to 1 ½" ID and up to 1 ¼" 4-spiral hose

### TECHNICAL DATA

**WEIGHT** 70 lbs. (hose saw only)

**DIMENSIONS** 28 ¾" L x 21" W x 12 ¼" H



### AVAILABLE CONFIGURATIONS

SAP #	Voltage	Phase	Plug	Hertz	Country Approved	Serrated Blade Included	Hose Bending Pins Included	1¼" Vacuum Adapter Included
20614553	110V	1	NEMA 5-15	50/60	U.S.A.	✓	✓	✓
20829262	12VDC	1	Jumper Cables	50/60	U.S.A.	✓	✓	✓

## HS-500 Series Hose Saw

The HS-500 hose saw is a rugged engineered design, and the accessories included make it the best value of any hose saw in its class with a low maintenance cost.

The HS-500 standard package includes: Serrated blade, hose helper, hose bending pins, and 1 ¼" vacuum adapter.

### FEATURES

- › The HS-500 can be mounted on the HS-Mobile cart for easy moving around the shop
- › The Hose Channel System both measures and supports the hoses up to 2 inch diameter as they are being cut
- › 3 types of blades are available for HS150 and HS-500 series: Serrated blade, Scalloped blade and Double Bevel w/ SS Slots blade



The mister sprays a fine mist of air tool oil on the saw blade for longer blade life and cleaner cuts.



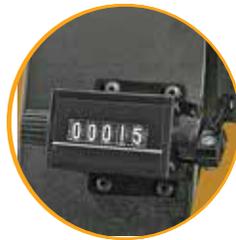
Hose bending pins prevent the blade from binding during a cut.



Hose helper attachment prevents the hose from being drawn back during a cut.



With the hose helper extension attached, can be adjusted up to 22" away from the hose saw base.



A resettable counter makes it easy to keep track of the number of cuts made.



Vacuum port allows attachment of vacuum system to keep saw and work space clean.

## HS-500 Series Hose Saw

### CAPABILITY

- › The HS-500 is designed to cut 1- and 2-braid hydraulic hose up to 2" ID and up to 2" 4- or 6-spiral hose.

### TECHNICAL DATA

**WEIGHT** 120 lbs. (hose saw only)

**DIMENSIONS** 29 ¾" L x 26 ¾" W x 16" H



### AVAILABLE CONFIGURATIONS

SAP #	Voltage	Phase	Plug	Hertz	Country Approved	Serrated Blade Included	Hose Helper Included	Hose Bending Pins Included	1¼" Vacuum Adapter Included
20614557	230V	1	NEMA L6-30	60	U.S.A.	✓	✓	✓	✓
20614556	230V	3	NEMA L15-20P	60	U.S.A.	✓	✓	✓	✓
21095955	480V	3	NEMA L16-20P	60	U.S.A.	✓	✓	✓	✓

# Blade Awareness for Hose Saws

## Blade Conditioning

New blades must be properly conditioned to assure long life and clean cuts. For the first ten cuts, feed the blade slowly through a medium-sized hose. This will properly break-in and condition the blade for long life.

The hose should begin to bend before contacting the blade. This will increase blade life and keep the hose from tearing and deforming.

Once the blade and motor reach full RPM, apply steady downward pressure on the handle in order to force the hose into the blade. Do not apply enough force to stall the blade. Ease up on the pressure before the blade completes the cut. This will keep from separating the wires as the blade exits the hose.

**The edges of the blade may appear to be dull. This does not mean that the blade is not effective.**

**As long as the blade is giving clean cuts, do not replace the blade.**

**CAUTION:** Cracks can cause extreme damage to the blade. Periodically examine the blade for cracks and/or broken teeth.



Damaged Blade

## Blade Types



Serrated Blade

Pay close attention to the direction of rotation marked on the serrated blade. It is the opposite of most blades of this type.



Scalloped Blade



Double Bevel  
with SS Slots Blade

## Pneumatic Trapeze Series

The Pneumatic Trapeze is designed to provide a safe and efficient method to lift hoses.

### ADVANTAGES OF THE TRAPEZE

- › Aids in detangling hose
- › Aids in the ergonomics of pulling hose from a box
- › Keeps hose straight prior to cutting
- › Allows multiple boxes/reels to be staged for use



Air Operated System



Controller to Guide Arm Up/Down



Regulated Air Inlet  
(filter/regulator)



Hose Helper



To learn more about this new product, please contact customer service.

## Hose Reel Rack Series

The Hose Reel Rack is designed to keep the hose spools organized and secure, is made of heavy-duty steel and comes in 2 compact designs (24" and 36" wide) to accommodate your needs.



### FEATURES

#### KEEP HOSE SPOOLS ORGANIZED

- › 5 different positions for customizable configurations that fit various sized hose spools
- › 2 reel holders for 2 larger hose spools, or 3 reel holders for 3 smaller hose spools
- › 3 reel holders are included (additional reels are available)
- › Easy installation, hardware included



Compact design for minimum use of space.



You can customize your sized hose spools that best fit your needs.



Hose reel rack keeps the hose spools organized and clean.

## Hose Reel Rack Series

### 2 COMPACT MODELS AVAILABLE

- › 24" W Hose Reel Rack
- › 36" W Hose Reel Rack

### TECHNICAL DATA

#### HOSE CAPACITY

600 lbs. (24" and 36" Hose Reel Racks)

#### DIMENSIONS

**24" Hose Reel Rack**  
29 3/4" L x 26 3/4" W x 16" H

**24" Hose Reel Rack**  
29 3/4" L x 26 3/4" W x 16" H

#### WEIGHT

**24" Hose Reel Rack**  
36" L x 30" W x 72 1/2" H

**24" Hose Reel Rack**  
36" L x 42" W x 72 1/2" H



### AVAILABLE CONFIGURATIONS

SAP #	Hose Reel Rack Model	Powder Coat	3 Reel Holders Included	Hardware Included
21024821	24"W Hose Reel Rack	Black	✓	✓
21024823	36"W Hose Reel Rack	Black	✓	✓

# Fitting Cabinet



## CB101

SAP# 20240780

**DIMENSIONS** 41 1/8" W x 12 1/2" L x 21" H

**MATERIAL** Heavy gauge steel

**WEIGHT** 60 lbs.

**COLOR** Black powder coat

**CAPACITY** 4 sliding drawers, 38" wide; each shelf can hold 10 small plastic bins or 5 large plastic bins

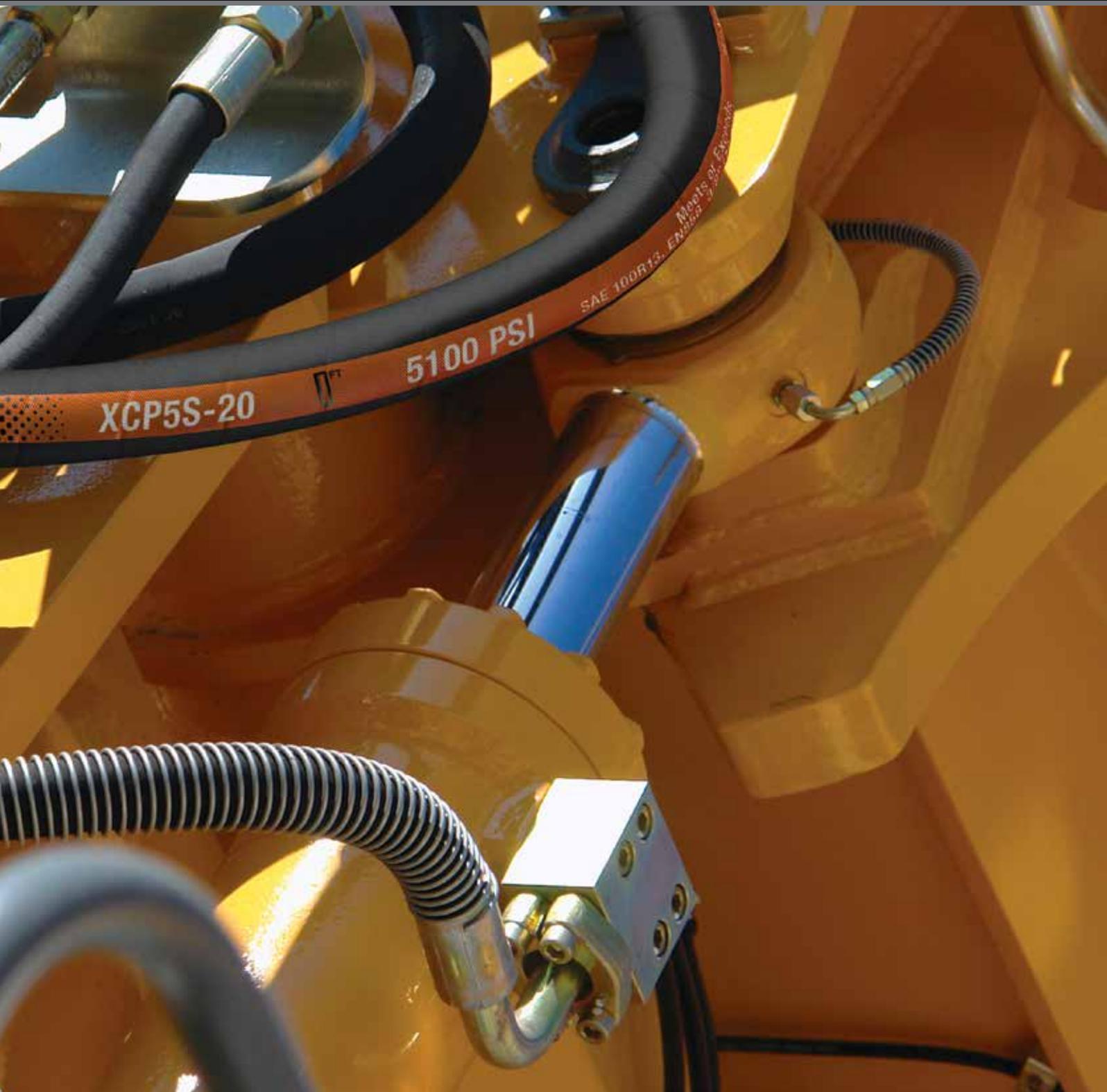
### FEATURES

- › 20 and 22 GA prime cold-rolled steel
- › Spot weld construction
- › Black texture powder coat finish
- › Heavy duty ball bearing slides
- › Four slide-out shelves with removable plastic bins for easy access
- › Cabinet can hold 40 small bins or 20 large bins, or a combination of the two
- › Made in the USA

### OPTIONS

SAP #	Part #	Description
20240781	CB200	Set of 5 large (7 3/4") plastic bins
20240782	CB201	Set of 10 small (3 1/4") plastic bins
20240784	CB301	Set of stationary legs (Bolt-on with pre-drilled holes)

# ASSEMBLIES



## Selecting the Proper Hose Assembly

In order to obtain the best service from any particular hose application, two important conditions must be fulfilled:

1. **Select the right hose for the job**
2. **Make sure that it is fitted correctly and used in the proper manner**

Carefully consider the application requirements. A helpful guide is the S.T.A.M.P.E.D. process. **S.T.A.M.P.E.D.** is an acronym that stands for the seven major information areas required to provide a quality hose assembly.

<b>S</b>	<b>SIZE</b>	ID, OD and length of the assembly
<b>T</b>	<b>TEMPERATURE</b>	Includes temperature of fluid conveyed and the climatic conditions
<b>A</b>	<b>APPLICATION</b>	The conditions of use including abrasion, flexing and routing
<b>M</b>	<b>MATERIAL</b>	Type of material conveyed including composition and concentration
<b>P</b>	<b>PRESSURE</b>	Hose assembly working pressure and surge or back pressure
<b>E</b>	<b>ENDS</b>	Definition of the fitting including thread type, gender, bent tube, swivel and orientation
<b>D</b>	<b>DELIVERY</b>	Time allowed for delivery, including testing, quality assurance and packaging

To assist in obtaining and conveying information regarding the application, a copy of the S.T.A.M.P.E.D. application form is included in this catalog. This inquiry sheet can be sent to any Continental authorized distributor for a hose recommendation.

**Please Note:**

A hose should always be selected based on its **rated working pressure**. Do not use **minimum burst pressure** as a guideline in selecting the hose. Minimum burst pressure decreases over the use and life of the hose. A hose should be selected based on its rated working pressure to provide a normal service life. In addition, always select a hose by giving consideration to its recommended temperature limits. Hose service life is reduced if the temperatures of the fluids being conveyed or ambient temperatures exceed the recommended limits.

# S.T.A.M.P.E.D. Form

## SIZE

ID \_\_\_\_\_

OD \_\_\_\_\_

Hose Length (OAL or uncoupled) \_\_\_\_\_

Tolerances \_\_\_\_\_

## TEMPERATURE

of Material Being Conveyed  
(high, low, ambient) \_\_\_\_\_

Intermittent? \_\_\_\_\_

Constant? \_\_\_\_\_

Sub-Zero Exposure \_\_\_\_\_

## APPLICATION

Indoor and/or Outdoor Use \_\_\_\_\_

Intermittent or Continuous Use \_\_\_\_\_

Flexibility Required (min. bend radius) \_\_\_\_\_

Movement (static, vibrations, flexing) \_\_\_\_\_

External Conditions \_\_\_\_\_

Abrasion \_\_\_\_\_

Oil \_\_\_\_\_

Solvents \_\_\_\_\_

Acid \_\_\_\_\_

Ozone \_\_\_\_\_

Electrical/Static Conductive \_\_\_\_\_

Oil Resistance \_\_\_\_\_

Tube \_\_\_\_\_

Cover \_\_\_\_\_

Flame Resistance \_\_\_\_\_

Non-contaminating Materials \_\_\_\_\_

Hose Currently in Use \_\_\_\_\_

Current Hose Service Life  
(failure description) \_\_\_\_\_

Service Life Desired \_\_\_\_\_

## MATERIAL

Solids (size, description) \_\_\_\_\_

Gaseous (volatility, inert) \_\_\_\_\_

Liquids (flammability, causticity, acid,  
alkaline, solution/concentration) \_\_\_\_\_

Chemical Names (generic) \_\_\_\_\_

## PRESSURE

Working Pressure (including surges) \_\_\_\_\_

Burst Pressure \_\_\_\_\_

Suction or Vacuum Requirements \_\_\_\_\_

Velocity \_\_\_\_\_

Impulse \_\_\_\_\_

## ENDS & FITTINGS

Type of Threads \_\_\_\_\_

Male/Female \_\_\_\_\_

Reusable/Non-reusable \_\_\_\_\_

Material for Fittings \_\_\_\_\_

Swivel or Non-swivel \_\_\_\_\_

Straight or Bent Tube \_\_\_\_\_

Fitting 1 & 2 Orientation \_\_\_\_\_

Other \_\_\_\_\_

Cut to Length \_\_\_\_\_

Crimp Specs or Crimper Used \_\_\_\_\_

## DELIVERY

Lead Time \_\_\_\_\_

Quantity \_\_\_\_\_

Stock/Nonstock \_\_\_\_\_

Special Print \_\_\_\_\_

Special Packaging \_\_\_\_\_

## Other Information

Date: \_\_\_\_\_

Customer: \_\_\_\_\_

Customer Number: \_\_\_\_\_

Ship To: \_\_\_\_\_

Bill To: \_\_\_\_\_

Telephone: \_\_\_\_\_

Fax: \_\_\_\_\_

**S.T.A.M.P.E.D.**

Selecting the Proper Hose Assembly

**ASSEMBLIES**



# Defining Hose & Assembly Length

## Identifying Hose ID

In the case of a hose assembly replacement, the inside diameter (ID) of the hose can be obtained from the existing assembly. The ID may be printed on the layline of the hose or may have to be measured. Before cutting the assembly, measure the overall assembly length and record the orientation of the fittings. See the following sections on how to measure overall assembly length and the offset angle between the two fittings. If the ID of the hose has not been determined, utilize the Hose ID Selection Nomograph in the Appendix. The chart will yield a Hose ID recommendation based on flow capacity and flow velocity.

Hydraulic hose size or inside diameter is sometimes referred to as the "Dash Size." The Dash number is the ID of the hose in sixteenths of an inch. For example, a 1/4" ID hose, is equivalent to 4/16". The "Dash Size" would be "-4." A listing of the Dash sizes is shown below. Note that the Dash number applies to the Hose ID for all hose except SAE 100R5. In the case of SAE 100R5, the Dash number is equal to a relevant tube outside diameter (OD).

Dash #	Hose ID (Except SAE 100R5)		SAE Dash Size* (SAE 100R5)	
	in.	mm	in.	mm
-2	1/8	3.2		
-3	3/16	4.8		
-4	1/4	6.4	3/16	4.8
-5	5/16	7.9	1/4	6.4
-6	3/8	9.5	5/16	7.9
-8	1/2	12.7	13/32	10.3
-10	5/8	15.9	1/2	12.7
-12	3/4	19.1	5/8	15.9
-14	7/8	22.2		
-16	1	25.4	7/8	22.2
-20	1 ¼	31.8	1 ½	28.6
-24	1 ½	38.1	1 ¾	35.0
-32	2	50.8	1 13/16	46.0
-36	2 ¼	57.6		
-40	2 ½	63.5	2 ¾	60.3
-48	3	76.2		
-56	3 ½	88.9		
-64	4	101.6		
-72	4 ½	115.2		

\*SAE Dash Size equals OD of the tubing, which has approximately the same ID as the hose, expressed in 1/16".

## Identifying Overall Assembly Length

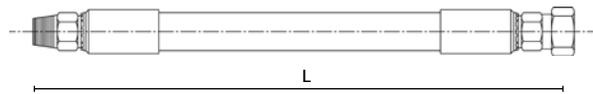
Unless otherwise specified by the customer, the assembly's overall length is measured from the extreme end of one fitting to the extreme end of the other except for the O-ring face seal fittings, which must be measured from the sealing face. Where elbow fittings are used, measurement shall be to the centerline of the sealing surface of the elbow end.

### Assembly Length Measurements

#### Overall Assembly Length

Female Swivel Ends (except O-Ring Face Seal) measure to sealing surface.

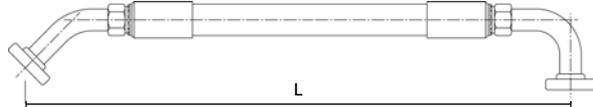
Male Ends



Bent Stem Swivel Female Ends



Flange Ends



Swivel O-Ring Face Seal Ends

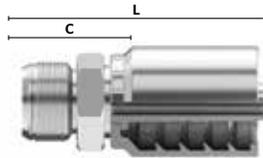


### Determining Hose Cut Length

The hose cut length for a hose assembly is calculated by subtracting the cut-off factor (distance from the bottom of the ferrule or collar to the end of the fitting or an internal sealing surface), denoted as "C" cut-off in the tables, from the actual assembly length required.

The "C" cut-off factor can be obtained from the fitting product tables. An example is shown below:

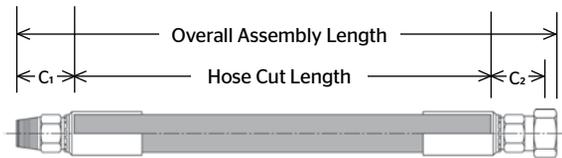
Part	Hose ID		Hose Dash Size	Thread Size	Thread Dash Size	"C" Cut-Off Factor	Stem Hex
	in.	mm					
JIC Solid Male 37	3/8	9.5	-6	9/16 - 18	-6	263	17



Knowing the overall length of the assembly desired, you subtract the "C" cut-off factor for each fitting from the overall length to obtain the hose cut length.

### Cut Hose Length = Assembly Overall Length - (C1+C2)

C1 and C2 are cut-off factors for each end. The "C" dimension may differ for each end, depending on the fitting. In certain situations, the sealing surface of JIC swivels and O-ring face seals should be considered when calculating overall length.



Hose assemblies should be manufactured to the following length tolerances:

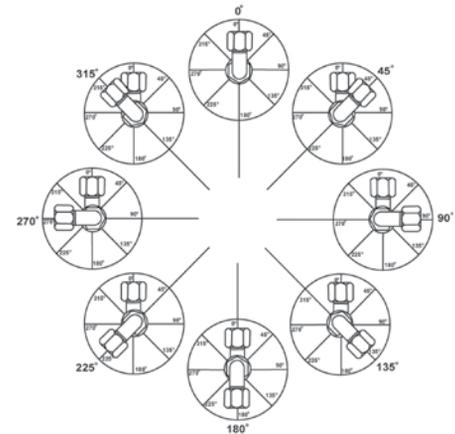
Assembly Length	Tolerance (+/- in.)	Tolerance (+/- in.)	Tolerance (+/- mm)
Up through 12 in. (304.8 mm)	0.13	1/8	3.2
Over 12 through 18 in. (304.8 mm through 457.2 mm)	0.19	3/16	4.8
Over 18 through 36 in. (457.2 mm through 914.4 mm)	0.25	1/4	6.4
Over 36 in. (914.4 mm)	1%	1%	1%

\*SAE Dash Size equals OD of the tubing, which has approximately the same ID as the hose, expressed 1/16".

### Measuring the Offset Angle

The offset angle between two fittings is the number of degrees measured in a clockwise direction between the fitting nearest the viewer and the farthest end fitting. Tolerances on the offset angle are +/- 3 degrees for assemblies up to 24 inches long and +/- 5 degrees for assemblies 24 inches and longer.

The following illustration shows the clockwise angle separation between a "close" fitting and a "far" fitting. The "close" fitting would be defined as the fitting closer when looking at an assembly end to end. The "far" fitting would be defined as the fitting on the far end of the assembly when looking at an assembly end to end. The "far" end is used as the reference point and the "close" end establishes the angular difference.



### Far End Reference Measuring Clockwise



Clockwise Measurement (Degrees)



## Hose Assembly Instructions

### Ultra-Crimp™ 1-Piece Crimped Fittings



*Fitting inserted on hose.*

1. Determine correct hose length from desired hose assembly length and "C" dimension. The "C" dimension, or cut-off factor, can be found in the fitting tables. More information on using the "C" dimension can be found in the previous subtopic, "Defining Hose and Assembly Length."
2. Cut hose to required length using a cut-off saw or a circular abrasive cut-off wheel. The preferred choice would be the steel wheel with a cooling agent. Care should be taken in not overheating the hose. Overheating can cause deformation of the hose and create difficulty when inserting the hose fittings. For textile-reinforced hose, a guillotine-style cutter may be used.



*Cut-Off Saw. Use caution when operating power equipment. Follow the proper safety measures per manufacturer suggestions.*

3. Ensure hose is cut squarely.



*Hose with square cut.*

4. Contaminated hose may reduce the service life of hydraulic systems. Always clean the hose bore after cutting, using air and/or flush with a compatible fluid.
5. In certain situations, skiving may be required. Skiving is the process of removing the portion of hose cover that lies directly under the coupling ferrule. This allows the metal fitting to be coupled directly on the hose reinforcement. Skiving is further discussed in the following section under the subtopic of "Internal and External Skiving."
6. Push and seat hose into the fitting. It is essential that the fitting be mated with a compatible hose style. Check fitting compatibility in hose or fitting product tables. To determine the insertion depth of the hose coupling, first measure the distance from the bottom of the fitting to the end of the ferrule where the hose is to be inserted. Mark a line on the hose cover at the distance from the end of the hose that equals the insertion depth. This becomes the visual check to determine if the hose was fully inserted in the fitting.



*Mark insertion depth.*

It is sometimes difficult to insert a fitting into hydraulic hose. If necessary, it is recommended using a liquid soap or a water/soap solution as a lubricant. Use the lubricant sparingly. When installing elbow fittings, point elbow toward the curvature of the hose, unless specified otherwise. When installing elbow fittings on both ends, see the previous section on "Measuring the Offset Angle." If the insertion mark was correctly applied, you should now be able to determine if the coupling has been completely inserted. The depth mark will be aligned with the end of the ferrule. In the case of a skived assembly, check that no skive shows and that couplings are on straight.

## Hose Assembly Instructions

### Ultra-Crimp™ 1-Piece Crimped Fittings



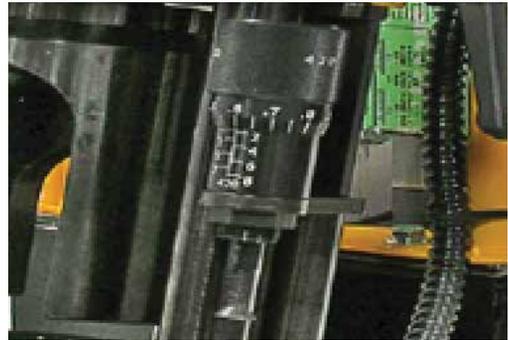
*Fitting inserted on hose.*

7. Before crimping hose fitting, verify the tooling setup and install the proper die set. Read the Crimp Chart, per Continental recommendations, and dial in the correct crimp diameter.

8. Place hose and fitting into the crimp machine. Crimp ferrule to predetermined diameter. Refer to the Continental Crimp Specifications Manual for proper crimp diameters and the crimper operator's manual for further instructions on how to properly and safely operate the crimper.



*Always verify proper die set. Insert die set in crimper.*



*Set crimp diameter.*



*Insert hose assembly into crimper die set.*

## Hose Assembly Instructions

### Ultra-Crimp™ 1-Piece Crimped Fittings

9. Remove assembled end and check crimp diameter with caliper or micrometer. Crimp diameter should be measured at the center of the ferrule. Measure the smooth portion of the ferrule and not the ridges. Visually check for cracked, cocked or damaged fittings.



*Verify crimp diameter with calipers.*

10. Some applications require the addition of a protective outer sleeving or strain reliefs. If this is a requirement, the most appropriate time to assemble is before the second end fitting is applied. Choose the appropriate product for the specific application. When cutting product to length, allow for flexing and bending of the hose.
11. Even if not required, it is a good practice to examine and audit the assembly before delivery or use. Records should be maintained. The level of inspection should be in compliance with the quality plan.
- Inspection - Visual, dimensional and proof pressure testing in accordance with SAE J517 or SAE J343.
  - Clean or flush of the assembly to remove plating dust, rubber chips, etc.
  - Apply caps, if required, to protect fitting threads and keep out contamination.
  - Apply labels or specific markings, if required.
  - Package the assembly properly.

#### Final Inspection Checklist

- › Bulge behind the fitting
- › Cocked fittings
- › Cracked fittings
- › Rusted fittings
- › Exposed reinforcement
- › Freedom of swivels
- › General appearance of the assembly
- › Internal contaminants
- › Restriction of the tube

#### Recommended Inspection Equipment

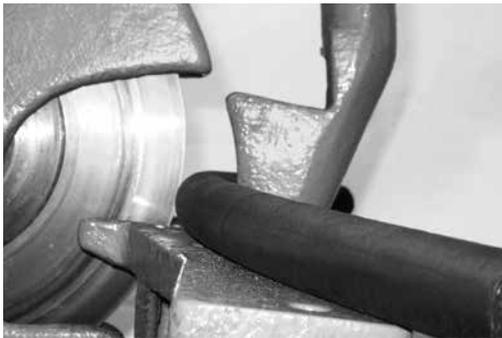
- › Worktable suitable for inspection
- › Tape measure to measure overall length
- › Calipers for measuring crimp diameter
- › Pi tape to measure outside diameter
- › Plug gauges for measuring inside diameter
- › Protractor device for measuring angle orientation of bent tube fittings
- › Magnifying glass and light to view inside of assemblies
- › Burst- and proof-pressure tester

## Hose Assembly Instructions

### Uni-Crimp™ 2-Piece Crimped Fittings

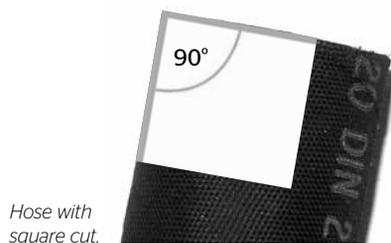


1. Determine correct hose length from desired hose assembly length and "C" dimension. The "C" dimension, or cut-off factor, can be found in the fitting tables. More information on using the "C" dimension can be found in the previous subtopic, "Defining Hose and Assembly Length."
2. Cut hose to required length using a cut-off saw or a circular abrasive cut-off wheel. The preferred choice would be the steel wheel with a cooling agent. Care should be taken in not overheating the hose, which can cause deformation of the hose and create difficulty when inserting the hose fittings. For textile-reinforced hose, a guillotine-style cutter may be used.



*Cut-off saw. Use caution when operating power equipment. Follow the proper safety measures per manufacturer suggestions.*

3. Ensure hose is cut squarely.



*Hose with square cut.*

4. Contaminated hose may reduce the service life of hydraulic systems. Always clean the hose bore after cutting, using air and/or flush with a compatible fluid.
5. In certain situations, skiving may be required. Skiving is the process of removing the portion of hose cover that lies directly under the coupling ferrule. This allows the metal fitting to be coupled directly on the hose reinforcement. Skiving is further discussed in the following section under the subtopic of "Internal and External Skiving."

6. The 2-piece crimped fitting consists of a ferrule and a stem insert. It is essential that the fitting be mated with a compatible hose style. Check fitting compatibility in hose or fitting product tables. Screw and/or push ferrule onto the hose until hose bottoms into the ferrule.



*Push ferrule onto hose.*

7. Push the stem insert into the Hose ID. The shoulder of the stem should make contact with ferrule. It is sometimes difficult to insert the stem into hydraulic hose. If necessary, it is recommended to use a liquid soap or a water/soap solution as a lubricant. Use the lubricant sparingly. When installing elbow fittings, point elbow toward the curvature of the hose, unless specified otherwise. When installing elbow fittings on both ends, see the previous subtopic on "Measuring the Offset Angle."



*Push stem into Hose ID.*

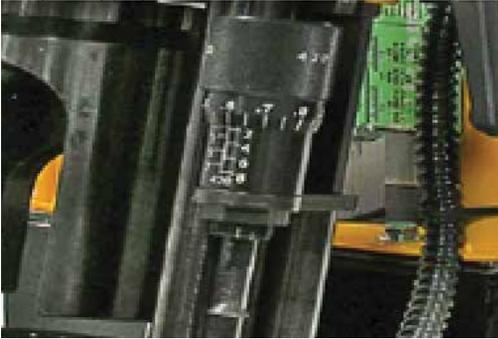
## Hose Assembly Instructions

### Uni-Crimp™ 2-Piece Crimped Fittings

8. Before crimping hose fitting, verify the tooling setup and install the proper die set. Read the Crimp Chart, per Continental recommendations, and dial in the correct crimp diameter.



Always verify proper die set. Insert die set in crimper.

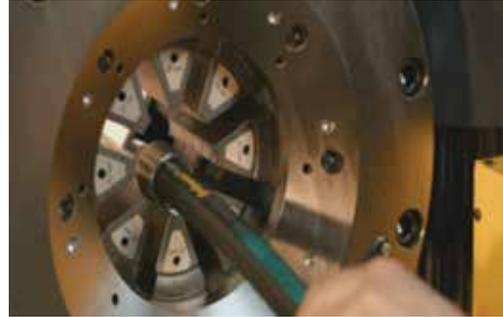


Set crimp diameter.

9. Place hose and fitting into the crimp machine. Refer to the Continental Crimp Specifications Manual for proper crimp diameters and the Crimper Operator's Manual for further instructions on how to properly and safely operate the crimper.



Insert hose assembly into crimper die set.



Crimp the hose/fitting assembly.

10. Remove assembled end and check crimp diameter with caliper or micrometer. Crimp diameter should be measured at the center of the ferrule. Measure the smooth portion of the ferrule and not the ridges. Visually check for cracked, cocked or damaged fittings.



Verify crimp diameter with calipers.

11. Even if not required, it is a good practice to examine and audit the assembly before delivery or use. Records should be maintained. The level of inspection should be in compliance with the quality plan.
- Inspection - Visual, dimensional and proof pressure testing in accordance with SAE J517 or SAE J343.
  - Clean or flush of the assembly to remove plating dust, rubber chips, etc.
  - Apply caps, if required, to protect fitting threads and keep out contamination.
  - Apply labels or specific markings, if required.
  - Package the assembly properly.

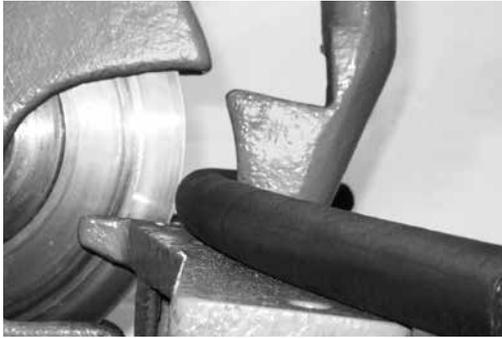
Refer to the Final Inspection Checklist and Recommended Inspection Equipment previously listed in Hose Assembly Instructions for a 1-Piece Crimped Fitting.

## Hose Assembly Instructions

### Field-Grip™ Fittings

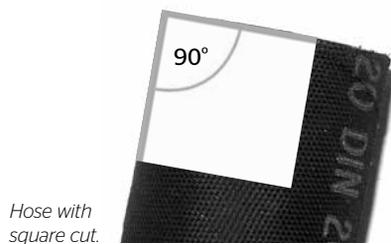
Continental Field-Grip™ reusable hose fittings must be carefully matched with a Continental hose. Use Field-Grip™ fittings only designed specifically for Continental hose. Use the correct socket with a given hose. Specific fittings and their hose application can be found in the fitting tables.

1. Determine correct hose length from desired hose assembly length and "C" dimension. The "C" dimension, or cut-off factor, can be found in the fitting tables. More information on using the "C" dimension can be found in the previous subtopic, "Defining Hose and Assembly Length."
2. Cut hose to the required length using a cut-off saw or a circular abrasive cut-off wheel. The preferred choice would be a steel wheel with a cooling agent. Care should be taken in not overheating the hose, which can cause deformation of the hose, creating difficulty when inserting the hose fittings.



*Cut-off saw. Use caution when operating power equipment. Follow the proper safety measures per manufacturer suggestions.*

3. Ensure hose is cut squarely.



*Hose with square cut.*

4. Contaminated hose may reduce the service life of hydraulic systems. Always clean the hose bore after cutting, using air and/or flush with a compatible fluid.



*Field-Grip™ fitting stem and a socket.*

5. A Field-Grip™ fitting consists of a socket and stem assembly. It is essential the fitting be mated with a compatible hose style. Check fitting compatibility in hose or fitting product tables. Place the socket in a vice. The socket will fit over the hose cover. To determine the insertion depth for the hose, first measure the distance from the bottom of the socket to the end of the socket where the hose is to be inserted. Transfer this insertion depth to the hose cover by measuring from the end of the hose. Mark a line on the hose cover at the distance from the end of the hose that equals the insertion depth. This becomes the visual check to determine if the hose was fully inserted in the socket.



*Socket positioned in vice.*



*Mark insertion depth.*

## Hose Assembly Instructions

### Field-Grip™ Fittings

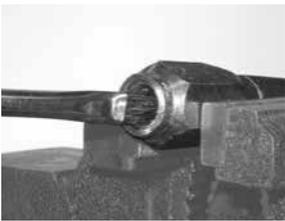
6. Lightly lubricate hose cover with a mild soap solution. Screw end of hose counterclockwise until hose reaches the marked insertion depth and then back off a 1/2 turn. If the insertion mark was correctly applied to the hose, you should now be able to determine if the socket has been correctly applied to the hose by using the insertion depth mark on the hose cover as a reference, along with a visual check inside the socket.
7. Lightly lubricate the inside of the hose and stem threads with a mild soap solution. Using a wrench, screw the stem assembly into the socket until the stem hex shoulders against the socket.
8. If disassembly is necessary, reverse the process.



*Apply lubricant to hose cover.*



*Visually check hose position inside socket.*



*Apply lubricant to stem and hose tube.*



*Screw stem into socket.*

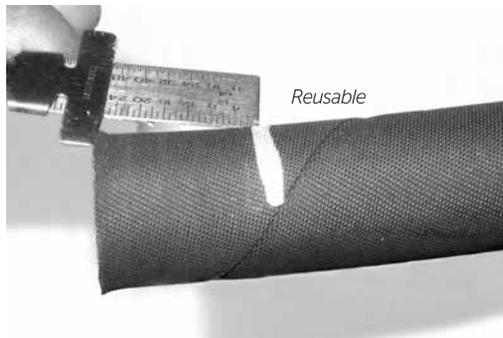


*Stem properly seated against socket.*

## Internal & External Skiving

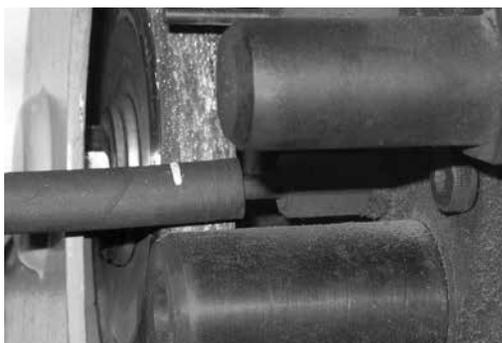
Skiving is the process of stripping and removing the hose cover to allow the proper installation of crimped hose ends and to ensure the best possible hose assembly.

1. At the point of skiving, the hose has been cut to the proper length. See Steps 1 and 2 in the previous hose assembly instructions.
2. Obtain length of skive per Continental specifications. Mark hose with skive length.



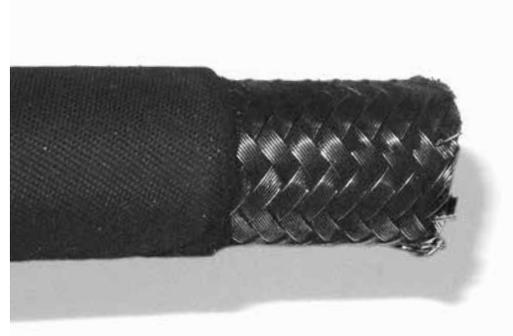
Mark skive on hose cover.

3. Remove the hose cover to the wire, using care not to burn, fray or damage reinforcement wires. The cover of wire-braided hose can be removed with a buffing wheel or a hand skiver. A manual, external skiving tool that uses a knife must be used with spiral hose. Mark the length of the cover to be removed, as noted in the Continental Crimp Specifications Manual, and set skiving depth on the manual skiving tool. Make sure the manual skiver is rotated in the counterclockwise direction for external skiving. Follow specific instructions on external skiving that would accompany the manual skiver.

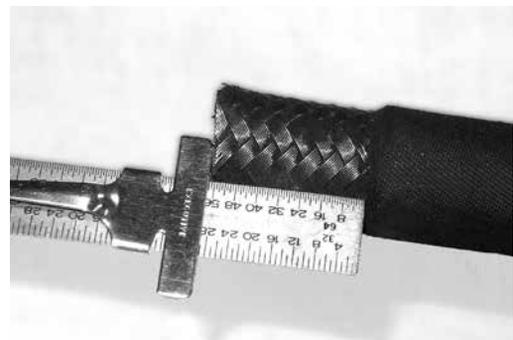


Cutting skive with buffing wheel. Follow manufacturer recommendation for the safe and proper use of the skiver.

4. With the hose cover removed, check that the wire braid or spiral reinforcement has not been displaced, damaged or cut in the skiving process.



Check skived cover.



Measure skive.

5. Check for the proper skive length.
6. Hose should be checked for 100% of cover removal. If necessary, rebuff skived area to clean and remove hose cover.
7. A manual, internal skiving tool that uses a knife is to be used to remove the tube material of the spiral hose for installation of the Dual-Grip fittings. Note the correct length of tube material to be removed from the Continental Crimp Specification Manual. Set the desired skiving depth on the internal skiving tool. Make sure the tool rotates in the clockwise direction for internal skiving. Verify that the correct length of tube material has been removed. Follow specific instructions on internal skiving that would accompany the manual skiver.
8. It is important to clean the Hose ID by brushing, blowing compressed air or flushing to remove any contaminants.

**Warning: Failure to completely remove the cover may result in serious personal injury or property damage due to hose ends blowing off, leakage or other failures.**

## SR14A Hose Assembly Instructions

In order to make a quality assembly with SR14A hose, the following instruction must be followed:

1. Tape hose before cutting.

**This will prevent the wire from flaring once the cut is made. If wire flare is allowed to occur, the ferrule will not slide onto the hose.**



*Tape hose before cutting.*

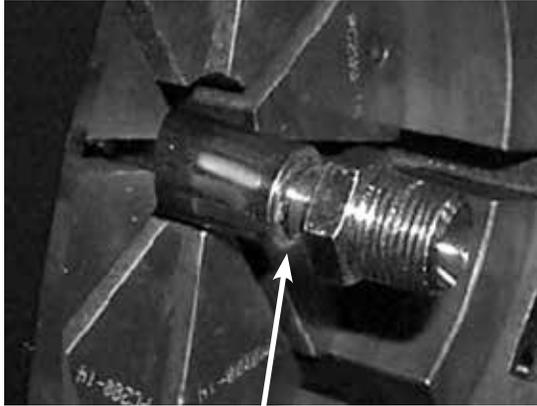
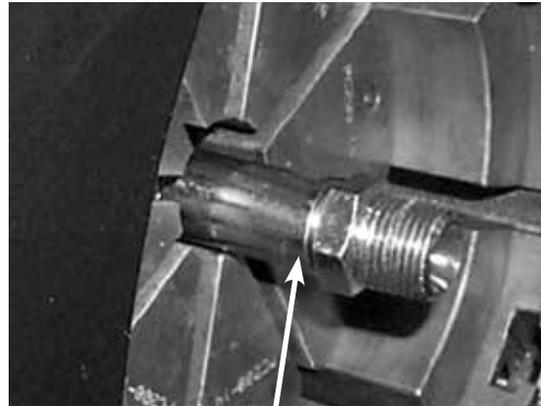
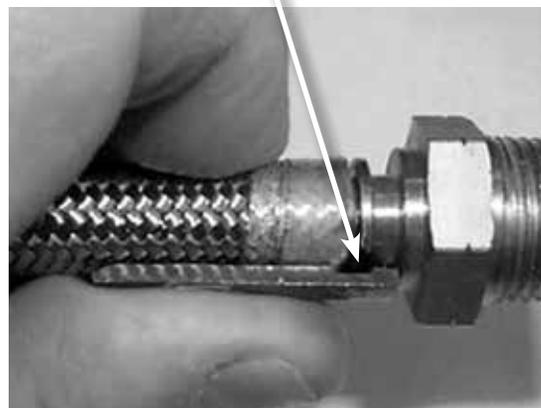
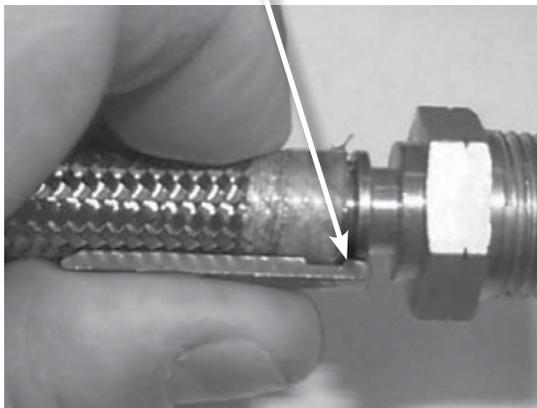
2. Slip ferrules on. Be sure they are in the correct direction (i.e., flange side aims to the outside of the hose).



*Hose with attached ferrules.*

3. Push in on stem on each end.
4. Remove the tape and slide the ferrule onto the stem.

5. Crimp the fitting using proper die selection and setting. Be sure not to allow the ferrule to slip back onto the hose or ride up on the hub of the stem. The groove of the ferrule must line up with flange of the stem.

**WRONG****RIGHT**

6. Check finished crimp diameter.



*Completed assembly.*



# INSTALLATION & MAINTENANCE



## Service Life Factors

Hose and hose assemblies have a finite life. There are a number of factors that will reduce hose life.

Consideration should be given to the following factors.

1. Operating Pressure - The maximum operating pressure within the hose should not exceed the recommended working pressure as specified by Continental as shown in the catalog specifications. Hose selection must be made so that the recommended maximum operating pressure is equal to or greater than the system pressure. Burst pressure, which is four times the working pressure, should not be used as the operating pressure of the hose. Exposing the hose to pressures higher than the working pressure is dangerous and will shorten hose life.
2. Exposing the hose to a surge pressure, above the working pressure of the hose, will shorten hose life. If surges are severe, select a hose with a higher recommended working pressure.
3. Burst Pressure - The burst pressure should never be considered in a hydraulic system design. The burst pressure is for test purposes only. Burst pressure is detrimental to the hose.
4. Operating Temperatures - High heat conditions may have an adverse affect on hose due to the degradation of the rubber and the affect on fitting retention. Continuous use at or above the maximum operating temperature of the hose will cause deterioration of the tube, cover and reinforcement, reducing the hose life. Care should be taken to ensure that fluid and ambient temperatures, both static and transient, do not exceed the limitations of the hose. It is important to operate a hose assembly within the specified temperature range of the specific hose.
5. Bend Radius - Flexing the hose to less than its recommended minimum bend radius will decrease hose life. Optimize routing to minimize inherent problems.
6. Excessive external forces such as flexing, twisting or kinking will reduce hose life. Use the correct fitting or adapter to prevent any unnecessary external force.
7. Chemical Resistance - Consider the chemical resistance of the tube, cover and the fitting, including the O-ring, to maximize hose performance and life. Hose selection must assure compatibility of the hose, tube, cover and fittings with the fluid used.
8. The size of the hose assembly components must be adequate to keep pressure losses to a minimum and avoid damage to the hose due to heat generation or excessive turbulence.
9. Extend hose assembly life by making sure hose and fittings are compatible with the environment or sufficiently protected from the elements, such as ultraviolet light, ozone, salt water or chemicals that can cause degradation of assembly components and shorten hose life.
10. A hose is designed with a certain level of abrasion resistance, but care should be taken to avoid excessive abrasion, which can damage the hose cover, accelerating hose failure.
11. Use the proper end fittings and crimp or install to the proper crimp specification to ensure a safe and proper hose assembly. Make sure that hose fittings are compatible with the hose.

## Safety Considerations

Fabricators, end users and installers should be aware of the safety factors when handling or when in proximity of hydraulic hose assemblies. The following are some potential conditions that can lead to personal injury and property damage.

1. As certain fluids may permeate the hose cover, the hose should always be used in well-ventilated areas.
2. Hydraulic systems generally operate at very high pressures. Any leak of pressurized fluid can penetrate the skin, causing severe tissue damage and burns. Consider the use of guards or shields around the hose assembly to reduce the risk of injury.
3. Whipping Hose - Under high operating pressures, the hose and/or fitting can come loose or blow, causing the end of the hose to whip with great force. Again, the hose assembly should be shielded or guarded, even possibly secured, to avoid injury or damage from this whipping action.
4. Hydraulic fluids are flammable and can explode with a source of ignition. To avoid possible injury or property damage, care should be taken to eliminate ignition sources and to properly route the hose assembly to minimize the chance of combustion.
5. Most all hose are conductive. In some cases a non-conductive hose is required. To avoid electrocution or other serious mishap, the correct hose specification, either conductive or non-conductive, should be used.
6. Should a hydraulic hose assembly fail, loss of hydraulic pressure will impact the operation of equipment. Care should be taken that a sudden power loss of the equipment will not cause personal injury.
7. When air or gaseous materials are being conveyed, the correct hose should be used. A pin-perforated cover may be required. Perforations in the cover will prevent permeated gasses from accumulating and blistering the cover. Check with Continental for the correct hose specification.
8. Extreme care should be used when operating handheld hydraulic tools where the operator is in proximity to the hydraulic hose assembly. The following steps should be taken to avoid injury.
  - a. Use strain relievers on each end of the hose to prevent kinking, excessive bending or stress on the hose at the coupling.
  - b. Never use the hose assembly to pull or carry the tool.
  - c. Exposed hose near the operator should be guarded in case the hose assembly fails, to prevent injury from high-pressure or high-temperature fluid.
  - d. Operators of the tool should be protected with the required safety clothing, considering the job and fluids being used.
  - e. The hose should be protected against any external damage.
9. Hose assemblies should be properly routed to avoid strain and the possibility of the hose bursting. Proper routing will also protect the assembly against flex fatigue, excessive heat or abrasion.
10. When selecting a hose style and assembly, check for hose compliance to all relevant government, industry and safety standards or regulations.

# Proper Installation & Hose Routing

## Proper Hose Installation

**WARNING:** Improper selection, installation or maintenance of a hose assembly may result in premature failures, bodily injury or property damage.

The following practices should be used when replacing a hydraulic hose assembly or installing a new hydraulic assembly:

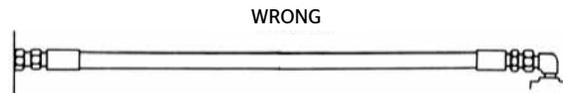
1. A pre-installation inspection should include the following:
  - a. Check to ensure the hose is the correct specification in style, size and length.
  - b. Check that the hose assembly has no visible non-conformity.
  - c. Check the fittings for any damage including nicks or burrs.
  - d. Check that the hose is routed properly using suggested guidelines.
  - e. Check that the hose is not damaged (kinked, crushed or twisted).
2. Handle assembly with care. Avoid bending hose beyond the recommended bend radius.
3. Hose assemblies should not be installed in a torqued or twisted condition.
4. Use necessary restraints and protective devices when necessary to reduce wear and stress points on the assembly.

## Correct Assembly Installation & Routing

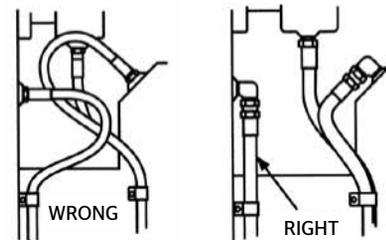
Satisfactory performance and appearance depend upon proper hose installation. Excessive length destroys the trim appearance of an installation and unnecessarily adds to the cost of the equipment. Hose assemblies of insufficient length to permit adequate flexing, expansion or contraction, will cause poor power transmission and shorten the life of the hose.

The diagrams below offer suggestions for proper hose installations to obtain the maximum in performance and economy.

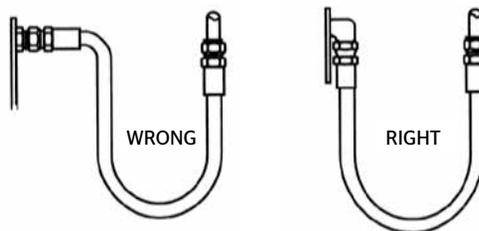
Since hose may change in length from +2% to -4% under the surge of high pressure, provide sufficient slack for expansion and contraction.



Obtain direct routing of the hose through use of 45° and 90° adapters and fittings. Improve appearance by avoiding excessive hose length.

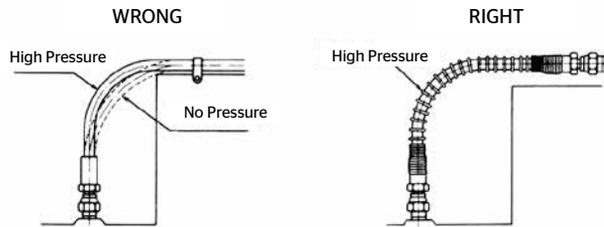


Avoid a sharp twist or bend in the hose by using proper angle adapters compatible with the hose.



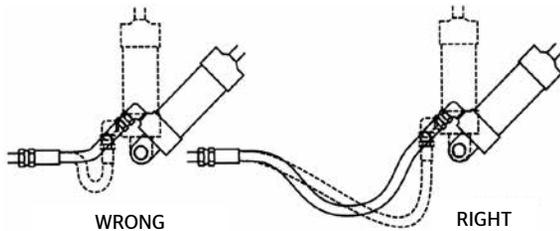
### Correct Assembly Installation & Routing

Due to changes in length when the hose is pressurized, do not clamp at bends so the curves can absorb changes and protect the hose with a spring guard. Do not clamp high- and low-pressure lines together, and protect the hose with a spring guard.

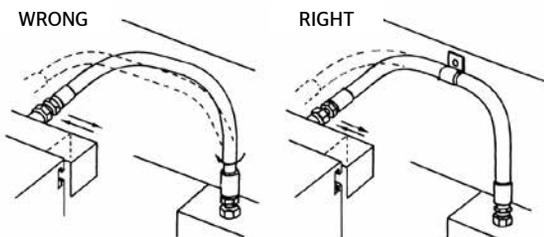


Where the radius falls below the required minimum, an angle adapter should be used as shown on the previous page to avoid sharp bends in the hose.

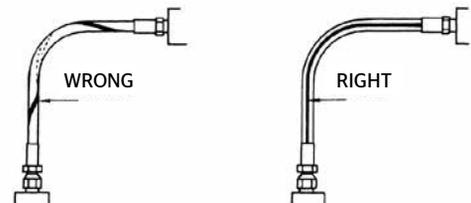
Adequate hose length is very important to distribute movement on flexing applications and to avoid abrasion.



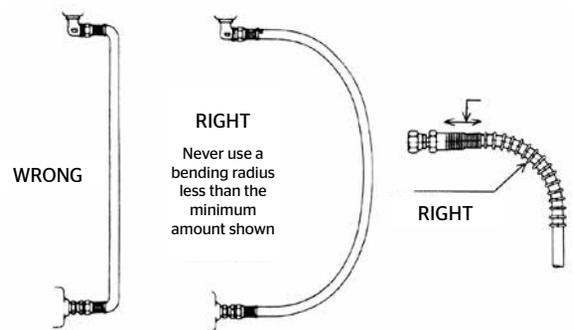
To avoid twisting in hose lines bent in two planes, clamp hose at change of plane, as shown.



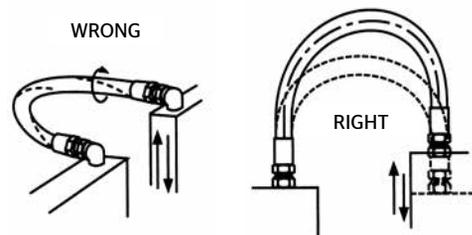
Hose should not be twisted. Hose is weakened when installed in a twisted position. Also, pressure in twisted hose tends to loosen fitting connections. Design is such that the machine motion produces bending rather than twisting.



To prevent twisting and distortion, the hose should be bent in the same plane as the motion of the boss to which the hose is connected.



Never use a bending radius less than the minimum shown in the hose specification tables. To reduce collapsing of line and restriction of flow, avoid a sharp bend in the hose by using the proper spring guard. Exceeding minimum bend radius will greatly reduce hose assembly life.



# Hose Maintenance & Storage

## Hose Maintenance

A hose and fitting maintenance program can reduce equipment downtime and maintain peak operating performance of the hydraulic system. Here are a few maintenance reminders.

1. Hose assemblies should be inspected on a regular basis with frequency based on prior history of the equipment, a set maintenance/inspection program and the severity of the application or risk potential.
2. Always use Safety Considerations (page 419) when inspecting hose assemblies. To avoid personal injury during system checkouts, do not touch the assembly and be aware of the potentially hazardous area surrounding the hose assembly.
3. Inspect hose and fittings for the following:
  - a. Exposed, broken or corroded reinforcement wires.
  - b. Leaks in the hose or at the fitting.
  - c. Cracked, damaged or corroded fittings.
  - d. Other signs of significant deterioration.

If any of the above conditions exist, the hose assembly should be replaced immediately.
4. The hydraulic system should also be inspected for the following:
  - a. Leaking ports.
  - b. Damaged or missing hose clamps, guards or shields.
  - c. Excessive dirt or grease on the assembly.
  - d. Condition of system fluid, fluid temperature, contamination and air entrapment.

If any of the above conditions are found, the appropriate corrective action should be taken.

5. Functional tests should be conducted to determine if systems are leak-free and operating properly. Hose assemblies of insufficient length to permit adequate flexing, expansion or contraction will cause poor power transmission and shorten the life of the hose.
6. If hose assembly can be inspected and detached from the hydraulic system, additional steps can be taken to ensure a properly maintained assembly:
  - a. With hose assembly detached, clean assembly by blowing it out with clean, compressed air or by rinsing it with a compatible cleaning fluid.
  - b. Inspect hose tube for cuts, obstructions and cleanliness.
  - c. Check layline of the hose to make sure the hose is not twisted.
  - d. Check fittings to ensure they are in good condition and properly crimped or attached to the assembly.

If any of the above conditions are found, the hose assembly should be replaced.
7. The hose assembly should be hydrostatically tested, using the approved test stands and procedures as outlined in SAE J517. Test at proof pressure, or twice the working pressure of the hose, for 30 seconds to one minute. When test pressure is reached, visually inspect the hose for any signs of weakness, leaks or any hose movement relative to the fitting that would indicate a loose fitting. If any of these conditions exist, the assembly should be replaced.
8. Specific hose assembly replacement intervals must be considered based on previous service life, government or industry recommendations, or when failures could result in injury risk or property damage.

## Hose Storage

Temperature, humidity, ozone, sunlight, oils, solvents, corrosive liquids, insects, rodents and radioactive materials can adversely impact hose products. Hose should be stored in a dark, dry atmosphere away from heat sources, electrical equipment and the above adverse elements. The ideal storage temperature for rubber hose is 50°F to 70°F (10°C to 21.1°C), with a maximum of 100°F (37.8°C).

# APPENDIX



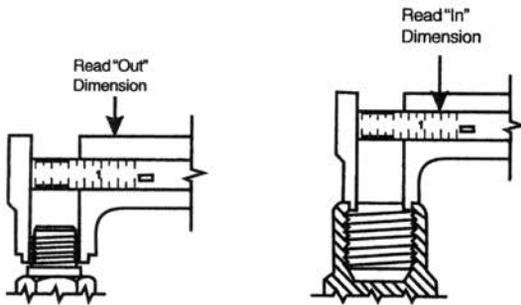
## Fitting Identification

### Measuring Threads and Seat Angles

Tools Required: ID/OD Calipers, Seat Angle Gauge (English and Metric), Thread Pitch Gauge

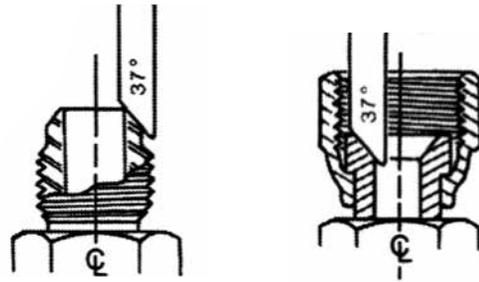
#### Measuring Threads

A caliper is used to measure the OD of male threads and the ID of female threads. Measure at the largest point. In some cases, threads may be worn, and the exact measurement taken may not match exactly to the thread charts. For accuracy, it is recommended the male thread be measured.



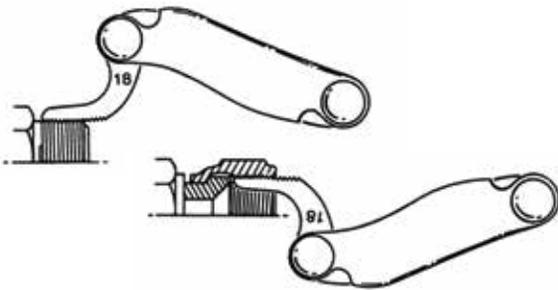
#### Measuring Seat Angle

A Seat Angle Gauge is used to measure the angle of the sealing surface. For either male or female fittings, place the gauge on the sealing surface. An accurate reading is taken when the gauge is parallel to the centerline of the coupling.



#### Measuring Thread Pitch

A Thread Pitch Gauge is used to determine the number of threads per inch or the distance between threads in a metric connection. To ensure an accurate reading, make sure the fit of the thread gauge is snug.



#### Comparing Measurements to the Tables

ID/OD measurements, thread pitch and seat angle will be used to identify the fitting. Measurements taken can be used to compare with the dimensions found on charts in the following pages.

As an example, a fitting will be defined as:  
Continental B2-NPMX-0606 with 3/8"-18" threads.

From the hydraulic catalog, the fitting can be identified as a NPTF / Male / Swivel.

The -6 fitting has 3/8"-18" threads, which can be identified using calipers, thread gauge and the following tables.

# Fitting Identification

## Fitting Standards

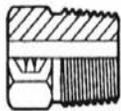
There are five basic fitting standards: North American, British, French, German and Japanese

### North American Thread Types

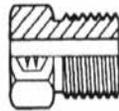
Also known as American Dryseal Pipe Threads, the thread types include NPTF, NPSF and NPSM.

<b>N</b> National	<b>S</b> Straight Thread
<b>F</b> Fuels	<b>P</b> Pipe
<b>T</b> Tapered Thread	<b>M</b> Mechanical Joint

Pipe threads can be either straight or tapered. The first step in identifying this fitting is to determine if the thread is parallel (straight) or tapered.



Tapered Threads



Parallel Threads

A straight thread is not used for sealing fluids. In this type of fitting, a seal is achieved with an O-ring, a metal seal or a seat machined into the end of the fitting. A straight thread can be determined by laying a straightedge against the threads. If all the threads are parallel to the centerline of the fitting, then it is a straight thread.

A tapered thread seals by the interference in the engagement of the male and female threads. These threads deform when they are tightened, causing metal deformation and a pressure-tight joint. Thread sealants are commonly used in this connection. A tapered thread can be determined by laying a straightedge against the threads. If the straightedge is not parallel to the centerline of the fitting and the threads taper toward the centerline of the fitting, then it is a tapered thread.

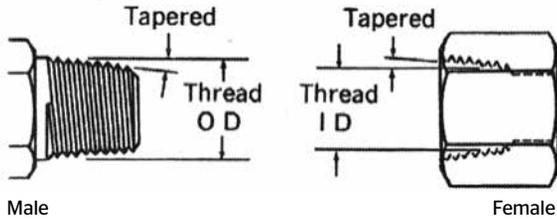
A fitting may also be referred to by its Dash Size number. The Dash Size number is a universal abbreviation for sizing pipe systems. The following charts will show a Dash Size number for each fitting. The Dash Size number comes from the dimension of the port of the fitting. It is the dimension in 1/16 of an inch. A 3/8" port would be 6/16" or a Dash Size of 6 (-6).

Inch	1/16	Dash Size #
1/8	2/16	-2
1/4	4/16	-4
3/8	6/16	-6
1/2	8/16	-8
3/4	12/16	-12
1	16/16	-16
1 ¼	20/16	-20
1 ½	24/16	-24
2	32/16	-32

## Fitting Standards

### North American Thread Types

#### NPTF



##### Identification

National Pipe Tapered Fuels. Tapered thread.

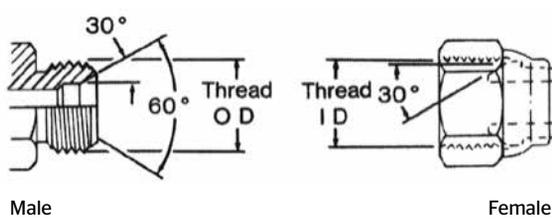
##### Seal

The thread is tapered and sealing takes place with the deformation of the threads. The NPTF male has a 30° seat and will mate with the NPTF female, also with tapered threads, but no seat. A thread sealant is commonly used. An NPTF male with a 30° seat will mate with an NPSM female, which has straight threads and a 30° inverted seat. The sealing takes place on the 30° seat.

##### Application

The NPTF fitting is a dryseal thread, commonly used in fluid power systems but not recommended by the National Fluid Power Association for hydraulic applications.

#### NPSM



##### Identification

National Pipe Straight Mechanical. Straight thread.

##### Seal

Both male and female have a straight thread and a 30° seat and chamfer. The seal takes place by compression of the 30° seat on the chamfer. The threads hold the connection mechanically.

##### Application

Used in fluid power systems.

#### Thread Identification Table

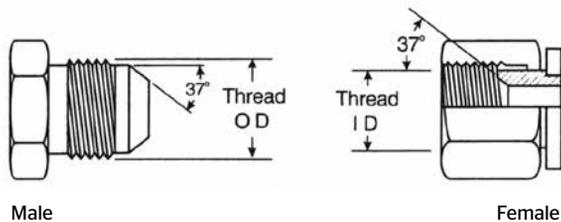
##### NPTF / NPSF / NPSM

Dash Size	Nominal Size	Thread Size	Female Thread ID	Male Thread OD
	in.		in.	in.
-2	1/8	1/8 - 27	23/64	13/32
-4	1/4	1/4 - 18	15/32	35/64
-6	3/8	3/8 - 18	19/32	43/64
-8	1/2	1/2 - 14	3/4	27/32
-12	3/4	3/4 - 14	61/64	1 1/16
-16	1	1 - 11 1/2	1 1/64	1 3/16
-20	1 1/4	1 1/4 - 11 1/2	1 7/32	1 4/16
-24	1 1/2	1 1/2 - 11 1/2	1 25/32	1 29/32
-32	2	2 - 11 1/2	2 1/4	2 3/8

## Fitting Standards

### North American SAE Thread Types

#### JIC 37° Flare (SAE J514)



##### Identification

Straight threads. Both male and female have a 37° seat.

##### Seal

The seal is made on the 37° flare seat. The threads hold the connection mechanically. Only connect male SAE 37 with female SAE 37.

##### Application

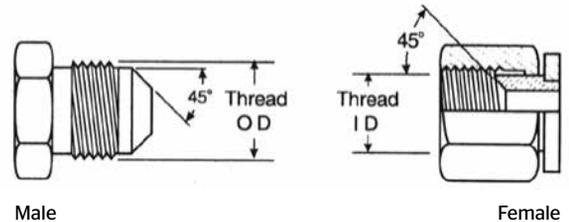
SAE specifies use with high-pressure hydraulic tubing.

#### Thread Identification Table

##### JIC 37° Flare

Dash Size	Nominal Size	Thread Size	Female Thread ID	Male Thread OD
	in.		in.	in.
-2	1/8	5/16-24	17/64	5/16
-3	3/16	3/8-24	21/64	3/8
-4	1/4	7/16-20	25/64	7/16
-5	5/16	1/2-20	29/64	1/2
-6	3/8	9/16-18	1/2	9/16
-8	1/2	3/4-16	11/16	3/4
-10	5/8	7/8-14	13/16	7/8
-12	3/4	1 1/16-12	31/32	1 1/16
-14	7/8	1 3/16-12	1 1/4	1 3/16
-16	1	1 5/16-12	1 5/16	1 5/16
-20	1 1/4	1 5/8-12	1 3/4	1 5/8
-24	1 1/2	1 7/8-12	1 5/4	1 7/8
-32	2	2 1/2-12	2 3/4	2 1/2

#### SAE 45° Flare (SAE J512)



##### Identification

Straight threads. Both male and female have 45° seat.

##### Seal

The seal is made on the 45° flare seat. The threads hold the connection mechanically. Only connect male SAE 45 with female SAE 45.

##### Application

Commonly used in low-pressure, refrigeration and automotive piping systems and are frequently constructed of brass and connected to copper tubing.

##### Comments

Use caution when identifying this fitting as the threads are the same as SAE J512 37° (JIC) in the -2, -3, -4, -5, -8 and -10 sizes. The sealing surface angles are different, however.

#### Thread Identification Table

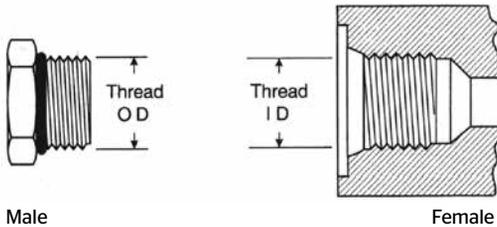
##### SAE 45° Flare

Dash Size	Nominal Size	Thread Size	Female Thread ID	Male Thread OD
	in.		in.	in.
-2	1/8	5/16-24	17/64	5/16
-3	3/16	3/8-24	21/64	3/8
-4	1/4	7/16-20	25/64	7/16
-5	5/16	1/2-20	29/64	1/2
-6	3/8	5/8-18	9/16	5/8
-7	7/16	11/16-16	5/8	11/16
-8	1/2	3/4-16	11/16	3/4
-10	5/8	7/8-14	13/16	7/8
-12	3/4	1 1/16-14	63/64	1 1/16

## Fitting Standards

### North American SAE Thread Types

#### O-Ring Boss Straight Thread (SAE J514)



##### Identification

Male fitting has a straight thread and an O-ring. The female port has a straight thread and a chamfer to accept the O-ring.

##### Seal

The seal takes place by compressing the O-ring into the chamfer. The threads hold the connection mechanically. Only connect O-ring boss male with O-ring boss female.

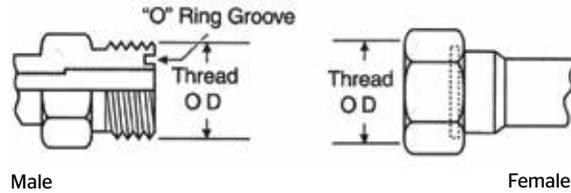
##### Application

Recommended by the National Fluid Power Association for optimal leakage control in medium- and high-pressure hydraulic systems.

#### Thread Identification Table O-Ring Boss Straight Thread

Dash Size	Nominal Size	Thread Size	Female Thread ID	Male Thread OD
	in.		in.	in.
-2	1/8	5/16-24	17/64	5/16
-3	3/16	3/8-24	21/64	3/8
-4	1/4	7/16-20	25/64	7/16
-5	5/16	1/2-20	29/64	1/2
-6	3/8	9/16-18	1/2	9/16
-8	1/2	3/4-16	11/16	3/4
-10	5/8	7/8-14	13/16	7/8
-12	3/4	1 1/16 - 12	31/32	1 1/16
-14	7/8	1 3/16 - 12	1 7/64	1 3/16
-16	1	1 5/16 - 12	1 15/64	1 5/16
-20	1 1/4	1 5/8 - 12	1 35/64	1 5/8
-24	1 1/2	1 7/8 - 12	1 59/64	1 7/8
-32	2	2 1/2 - 12	2 27/64	2 1/2

#### O-Ring Face Seal (SAE J1453 ORS/ORFS)



##### Identification

Male fitting has a straight thread and an O-ring. Female has a straight thread and a machined flat face.

##### Seal

The seal takes place by compressing the O-ring onto the flat face of the female. The threads hold the connection mechanically.

##### Application

Fittings are intended for hydraulic systems where elastomeric seals are preferred to overcome leakage and leak resistance. This connection offers the very best in leakage control.

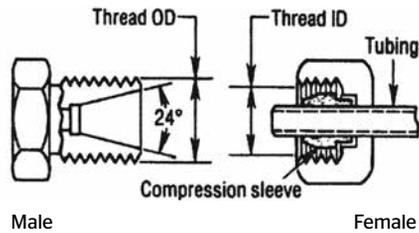
#### Thread Identification Table O-Ring Face Seal (ORFS)

Dash Size	Nominal Size	Thread Size	Female Thread ID	Male Thread OD
	in.		in.	in.
-4	1/4	9/16-18	1/2	9/16
-6	3/8	11/16-16	5/8	11/16
-8	1/2	13/16-16	3/4	13/16
-10	5/8	1-14	15/16	1
-12	3/4	1 3/16 - 12	1 1/8	1 3/16
-16	1	1 7/16 - 12	1 1/2	1 7/16
-20	1 1/4	1 11/16 - 12	1 19/32	1 11/16
-24	1 1/2	2-12	1 29/32	2

## Fitting Standards

### North American SAE Thread Types

#### SAE J514 Flareless Tube Fitting



##### Identification

Male and female have straight threads. Male has 24° seat.

##### Seal

Female includes a compression sleeve for the sealing surface. A seal is formed with the compression sleeve as the female nut is tightened onto the male thread. A seal is formed between the compression sleeve, the male 24° seat and tubing.

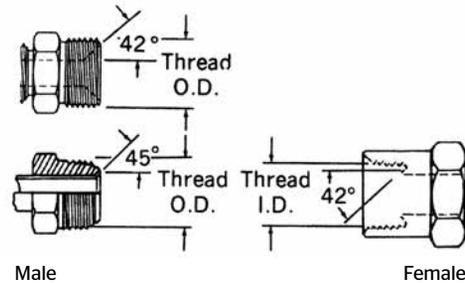
##### Application

Used to adapt steel tubing to a hydraulic hose assembly.

**Thread Identification Table**  
Flareless Tube Fitting

Dash Size	Tube Size in.	Nominal Size in.	Thread Size	Female Thread ID in.	Male Thread OD in.
-2	1/8	5/16	5/16-24	17/64	5/16
-3	3/16	3/8	3/8-24	21/64	3/8
-4	1/4	7/16	7/16-20	25/64	7/16
-5	5/16	1/2	1/2-20	29/64	1/2
-6	3/8	9/16	9/16-18	1/2	9/16
-8	1/2	3/4	3/4-16	11/16	3/4
-10	5/8	7/8	7/8-14	13/16	7/8
-12	3/4	1 1/16	1 1/16-12	31/32	1 1/16
-14	7/8	1 3/16	1 3/16-12	1 7/64	1 3/16
-16	1	1 5/16	1 5/16-12	1 15/64	1 5/16
-20	1 1/4	1 5/8	1 5/8-12	1 35/64	1 5/8
-24	1 1/2	1 7/8	1 7/8-12	1 51/64	1 7/8
-32	2	2 1/2	2 1/2-12	2 27/64	2 1/2

#### SAE 45° Inverted Flare (SAE J512)



##### Identification

Male fitting, with a straight thread, that can either be a 45° flare as a tube fitting or a 42° seat as a machined adapter. The female has a straight thread and a 42° inverted flare.

##### Seal

The seal takes place on the flared surfaces. The threads hold the connection in place mechanically.

##### Application

This fitting is frequently used in automotive systems.

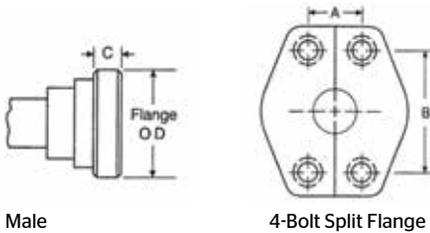
**Thread Identification Table**  
SAE 45° Inverted Flare

Dash Size	Nominal Size in.	Thread Size	Female Thread ID in.	Male Thread OD in.
-2	1/8	5/16-28	9/32	5/16
-3	3/16	3/8-24	21/64	3/8
-4	1/4	7/16-24	25/64	7/16
-5	5/16	1/2-20	29/64	1/2
-6	3/8	5/8-18	37/64	5/8
-7	7/16	11/16-18	5/8	11/16
-8	1/2	3/4-18	45/64	3/4
-10	5/8	7/8-18	13/16	7/8
-12	3/4	1 1/16-16	1	1 1/16

## Fitting Standards

### North American SAE Thread Types

#### Code 61, Code 62, Caterpillar® Flanges (SAE J518)



Male

4-Bolt Split Flange

#### Identification

The female port is an unthreaded hole surrounded with 4 bolt holes in a rectangular pattern. The male consists of a flanged head grooved for an O-ring and a flange with holes to match the port.

#### Seal

The seal takes place on the O-ring, which is compressed between the flanged head and the flat surface surrounding the port. The threaded bolts hold the connection mechanically.

#### Application

Commonly used in fluid power systems, worldwide and usually in connection on pumps and motors. The fitting is available in two pressure ratings. Code 61, Form R, PN 35/350 bar, Type I is referred to as the "standard" series and can withstand an operating pressure of 3,000–5,000 psi depending on size. Code 62, Form S, PN 415 bar Type II is the heavy-duty, 6,000 psi series. While the design is the same, bolt hole spacing and flanged head diameters are larger for the higher pressure Code 62 fitting.

#### Comments

SAE J518, DIN 20066, ISO/DIS 6162 and JIS B 8363 are interchangeable except for the bolt sizes. The -10 is not available as an SAE standard size. Caterpillar® flanges, which have the same flange OD as SAE Code 62, have a thicker flange head. This is the "C" dimension in the table.

#### How to Measure

1. Measure port hole diameter [nominal flange size (in.)] using calipers.
2. Measure the longest bolt hole spacing from center to center, which is Dimension "B."
3. Or see the flange OD for further identification.

#### Thread Identification Tables

##### Code 61

Nominal Flange Size	Flange OD	A	B	C
in.				
1/2	1.188	0.688	1.500	0.265
5/8	1.345			0.265
3/4	1.500	0.875	1.875	0.265
1	1.750	1.031	2.062	0.315
1 ¼	2.000	1.188	2.312	0.315
1 ½	2.375	1.406	2.750	0.315
2	2.812	1.688	3.062	0.375
2 ½	3.312	2.000	3.500	0.375
3	4.000	2.438	4.188	0.375
3 ½	4.500	2.750	4.750	0.422
4	5.000	3.062	5.125	0.442
5	6.000	3.625	6.000	0.442

##### Code 62

Nominal Flange Size	Flange OD	A	B	C
in.				
1/2	1.250	0.718	1.594	0.305
3/4	1.625	0.937	2.000	0.345
1	1.875	1.093	2.250	0.375
1 ¼	2.125	1.250	2.625	0.405
1 ½	2.500	1.437	3.125	0.495
2	3.125	1.750	3.812	0.495

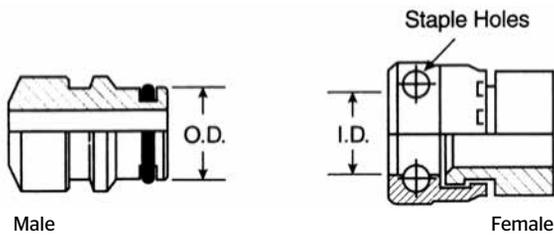
##### Caterpillar® Code 62

Nominal Flange Size	Flange OD	A	B	C
in.				
3/4	1.625	0.938	2.000	0.560
1	1.875	1.094	2.250	0.560
1 ¼	2.125	1.250	2.625	0.560
1 ½	2.500	1.438	3.125	0.560
2	3.125	1.750	3.812	0.560

## Fitting Standards

### North American SAE Thread Types

#### SAE J1467 Clip Fastener



#### Identification

The male has an external O-ring with a groove to accept a clip. The female has a smooth bore with two holes to accept a "U" shaped clip. With the male fitting inserted into the female fitting, a clip is inserted through the two holes, locking the connection together.

#### Seal

The seal is formed between the O-ring on the male fitting and the smooth bore of the female fitting.

#### Application

Commonly used for hydraulic applications in underground mines.

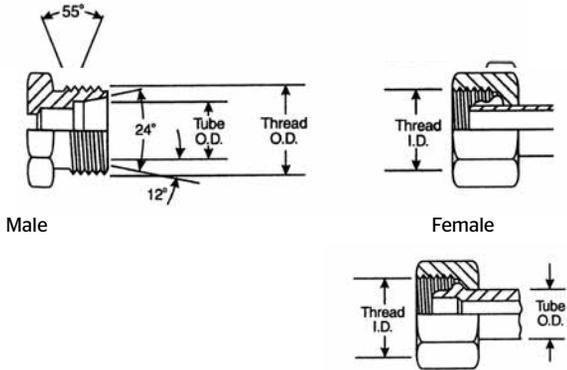
Thread Identification Table  
SAE J1467 Clip Fastener

Dash Size	Nominal Size	Female Thread ID	Male Thread OD
	in.	in.	in.
-4	1/4	19/32	19/32
-6	3/8	5 1/4	25/32
-8	1/2	6 1/4	15/16
-12	3/4	1 1/4	1 1/4
-16	1	1 35/64	1 1/32
-20	1 1/4	1 13/16	1 13/16
-24	1 1/2	2 11/64	2 5/32
-32	2	2 17/32	2 33/64

## Fitting Standards

### British Thread Types

#### BSPT (British Standard Pipe Tapered)



#### Identification

The British Standard Pipe Tapered is very similar to the NPTF fitting—a male fitting has a tapered thread. BSP threads are also known as Whitworth threads.

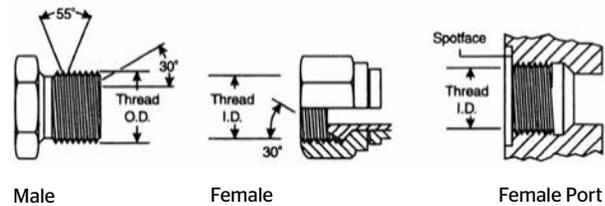
#### Seal

The BSPT male can be connected with a BSPT female or BSPP female. In either case, the seal is made within the threads through thread distortion. A thread sealant is recommended.

#### Comments

The BSPT fitting, although similar to the NPTF fitting, is not interchangeable. The thread pitch is different in most cases and the thread angle is 55° for the BSPT, as opposed to the 60° found on NPTF threads.

#### BSPP (British Standard Pipe Parallel)



#### Identification

The British Standard Pipe Parallel would be similar to the NPSM fitting. BSP threads are also known as Whitworth threads.

#### Seal

The BSPP male will connect with the BSPP female or female port. Both male and female have a straight thread and 30° seat and chamfer. The seal takes place by compression of the 30° seat on the chamfer. The threads hold the connection mechanically.

#### Comments

The BSPP fitting, although similar to the NPSM fitting, is not interchangeable. The thread pitch is different in most cases and the thread angle is 55° for the BSPP, as opposed to the 60° found on NPSM threads.

#### Thread Identification Table

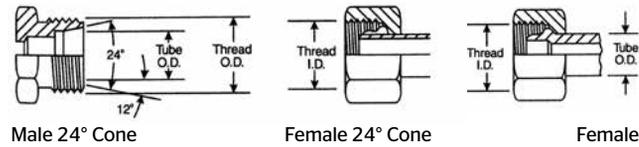
##### BSPT & BSPP

Dash Size	Nominal Size	Thread Size	Female Thread ID	Male Thread OD
	in.		in.	in.
-2	1/8	1/8-28	11/32	3/8
-4	1/4	1/4-19	15/32	17/32
-6	3/8	3/8-19	19/32	21/32
-8	1/2	1/2-14	3/4	13/16
-10	5/8	5/8-14	13/16	29/32
-12	3/4	3/4-14	31/32	1 1/32
-16	1	1-11	1 1/2	1 1/32
-20	1 1/4	1 1/4-11	1 17/32	1 21/32
-24	1 1/2	1 1/2-11	1 25/32	1 7/8
-32	2	2-11	2 7/32	2 1/32

## Fitting Standards

### French Thread Types

#### Millimetrique and GAZ 24°



#### Identification

The French Metric (GAZ) fittings have a 24° seat and straight, metric threads. While similar to DIN fittings, the French use fine threads on all sizes while the DIN fitting may have a coarse thread on the larger sizes.

#### Seal

GAZ male with a 24° seat will mate with the female, 24° cone or the female tube fitting.

#### Comments

The Millimetrique Series is used with whole number metric OD tubing and the GAZ Series is used with fractional number metric OD pipe size tubing.

#### Thread Identification Tables

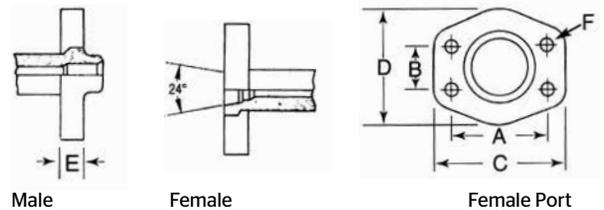
##### French Metric Millimetrique

Metric Thread	Female Thread ID		Male Thread OD		Tube OD	
	mm	in.	mm	in.	mm	in.
M 12 x 1	11.0	0.43	12.0	0.47	6	0.24
M 14 x 1 ½	12.5	0.49	14.0	0.55	8	0.31
M 16 x 1 ½	14.5	0.57	16.0	0.63	10	0.39
M 18 x 1 ½	16.5	0.65	18.0	0.71	12	0.47
M 20 x 1 ½	18.5	0.73	20.0	0.79	14	0.55
M 22 x 1 ½	20.5	0.81	22.0	0.87	15	0.59
M 24 x 1 ½	22.5	0.89	24.0	0.94	16	0.63
M 27 x 1 ½	25.5	1.00	27.0	1.06	18	0.71
M 30 x 1 ½	28.5	1.12	30.0	1.18	22	0.87
M 33 x 1 ½	31.5	1.24	33.0	1.30	25	0.98
M 36 x 1 ½	34.5	1.36	36.0	1.42	28	1.10
M 39 x 1 ½	37.5	1.48	39.0	1.54	30	1.18
M 42 x 1 ½	40.5	1.59	42.0	1.65	32	1.26
M 45 x 1 ½	43.5	1.71	45.0	1.77	35	1.38
M 48 x 1 ½	46.5	1.83	48.0	1.89	38	1.50
M 52 x 1 ½	50.5	1.99	52.0	2.05	40	1.57
M 54 x 2	51.9	2.04	54.0	2.13	45	1.77

##### French Metric GAZ 24° Cone

Dash Size	Metric Thread	Female Thread ID		Male Thread OD		Tube OD	
		mm	in.	mm	in.	mm	in.
-6	M 20 x 1.5	18.5	0.73	20.0	0.78	13.25	0.52
-8	M 24 x 1.5	22.5	0.89	24.0	0.94	16.75	0.66
-10	M 30 x 1.5	28.5	1.12	30.0	1.18	21.25	0.83
-12	M 36 x 1.5	34.5	1.36	36.0	1.41	26.75	1.05
-16	M 45 x 1.5	43.5	1.71	45.0	1.77	33.50	1.32
-20	M 52 x 1.5	50.5	1.99	52.0	2.04	42.25	1.66

#### GAZ Poclairn 24° Flange



#### Identification

Usually found on Poclairn equipment. The Poclairn flange with a 24° seat is different from an SAE flange in that there is a lip that protrudes from the flange face.

#### Seal

The male flange will connect with a female flange or port. The seal is made on the 24° seat.

#### Thread Identification Table

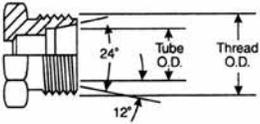
##### GAZ Poclairn 24° Flange

Nominal Size	A	B	C	D	E	F
in.						
1/2	1.57	0.72	2.20	1.89	0.55	0.35
5/8	1.57	0.72	2.20	1.89	0.55	0.35
3/4	2.00	0.94	2.75	2.38	0.71	0.43

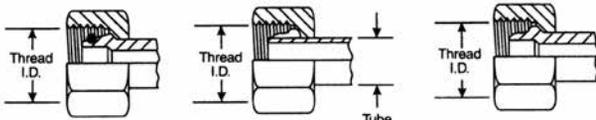
## Fitting Standards

### German Thread Types

#### DIN 2353 24° Cone



Male 24° Cone



Female 24° Cone with O-Ring

Female Metric Tube

Female Universal 24° or 60° Cone

#### Identification

Both male and female have straight metric threads. The male has a 24° seat and a recessed counter bore that matches the tube OD used with it. The female can be any of three styles including a 24° cone with an O-ring, a metric tube fitting, or a universal 24° or 60° cone. Use a 12° gauge to measure seat angle as the dimension is taken from the fitting centerline.

#### Seal

Sealing takes place between the 24° seat in the male end and the respective sealing area in the female end.

#### Comments

There is a light and heavy version of this coupling. Proper identification is made by measuring the thread size and tube OD. The heavy-duty version has a smaller tube OD than the light-duty version, but it has a thicker wall section.

#### Thread Identification Table

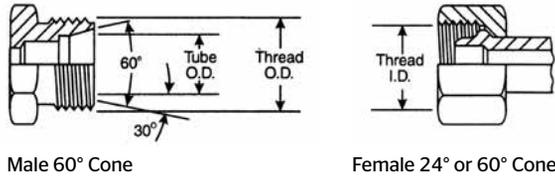
##### DIN 2353 24° Cone

Metric Thread	Female Thread ID		Male Thread OD		Tube OD Light Series		Tube OD Heavy Series	
	mm	in.	mm	in.	mm	in.	mm	in.
M 12 x 1 ½	10.5	0.41	12	0.47	6	0.24		
M 14 x 1 ½	12.5	0.49	14	0.55	8	0.31	6	0.24
M 16 x 1 ½	14.5	0.57	16	0.63	10	0.39	8	0.31
M 18 x 1 ½	16.5	0.65	18	0.71	12	0.47	10	0.39
M 20 x 1 ½	18.5	0.73	20	0.79			12	0.47
M 22 x 1 ½	20.5	0.81	22	0.87	15	0.59	14	0.55
M 24 x 1 ½	22.5	0.89	24	0.94			16	0.63
M 26 x 1 ½	24.5	0.96	26	1.02	18	0.71		
M 30 x 2	28.5	1.12	30	1.18	22	0.87	20	0.79
M 36 x 2	33.9	1.33	36	1.42	28	1.10	25	0.98
M 42 x 2	39.9	1.57	42	1.65			30	1.18
M 45 x 2	42.9	1.69	45	1.77	35	1.38		
M 52 x 2	49.9	1.96	52	2.05	42	1.65	38	1.50

## Fitting Standards

### German Thread Types

#### DIN 3863 60° Cone



#### Identification

Both male and female have straight metric threads. Use a 30° gauge to measure seat angle as this dimension is taken from the fitting centerline.

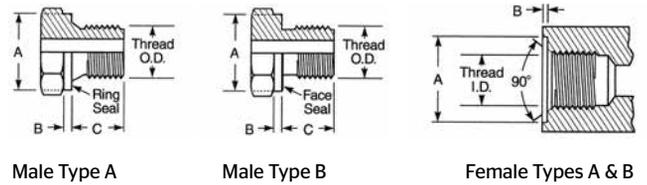
#### Seal

The male has a 60° seat. The female has a 24° or 60° seat. The seal takes place by contact between the 60° seat in the male end and the respective sealing area in the female end.

#### Thread Identification Table DIN 3863 60° Cone

Metric Thread	Female Thread ID		Male Thread OD		Tube OD 60° Cone	
	mm	in.	mm	in.	mm	in.
M 12 x 1 ½	10.5	0.41	12	0.47	6	0.24
M 14 x 1 ½	12.5	0.49	14	0.55	8	0.31
M 16 x 1 ½	14.5	0.57	16	0.63	10	0.39
M 18 x 1 ½	16.5	0.65	18	0.71	12	0.47
M 22 x 1 ½	20.5	0.81	22	0.87	15	0.59
M 26 x 1 ½	24.5	0.96	26	1.02	18	0.71
M 30 x 2	28.5	1.12	30	1.18	22	0.87
M 38 x 2	36.5	1.44	38	1.50	28	1.10
M 45 x 2	43.5	1.71	45	1.77	35	1.38
M 52 x 2	50.5	1.99	52	2.05	42	1.65

#### DIN 3852 Types A & B



#### Identification

Both male and female, Type A (light-duty) and Type B (heavy-duty) have straight threads.

#### Seal

The seal occurs when the ring seal in Type A or the face seal in Type B connects with the face of the female port.

#### Thread Identification Table DIN 3852 Types A & B

##### Male Metric Thread Parallel

	Tube OD	Metric Thread Size	Thread OD	A	B	C
				mm	mm	mm
L Light	6	10 x 1	10	14	1.5	8
	8	12 x 1 ½	12	17	2.0	12
	10	14 x 1 ½	14	19	2.0	12
	12	16 x 1 ½	16	21	2.5	12
	15	18 x 1 ½	18	23	2.5	12
	18	22 x 1 ½	22	27	3.0	14
	22	26 x 1 ½	26	31	3.0	16
	28	33 x 2	33	39	3.0	18
	35	42 x 2	42	49	3.0	20
	42	48 x 2	48	55	3.0	22
S Heavy	6	12 x 1 ½	12	17	2.0	12
	8	14 x 1 ½	14	19	2.0	12
	10	16 x 1 ½	16	21	2.5	12
	12	18 x 1 ½	18	23	2.5	12
	14	20 x 1 ½	20	35	3.0	14
	16	22 x 1 ½	22	27	3.0	14
	20	27 x 2	27	32	3.0	16
	25	33 x 2	33	39	3.0	18
	30	42 x 2	42	49	3.0	20
	38	48 x 2	48	55	3.0	22

DIN 3852 Types A & B continue on the next page.

## Fitting Standards

### German Thread Types

#### DIN 3852 Types A & B

##### Thread Identification Tables Continued

##### Female Metric Thread Parallel

	Tube OD	Metric Thread Size	Thread ID	A	B
	mm	mm	mm	mm	mm
	6	10 x 1	8.5	15	1.0
	8	12 x 1 ½	10.5	18	1.5
	10	14 x 1 ½	12.5	20	1.5
	12	16 x 1 ½	14.5	22	1.5
L Light	15	18 x 1 ½	16.5	24	2.0
	18	22 x 1 ½	20.5	28	2.5
	22	26 x 1 ½	24.5	32	2.5
	28	33 x 2	31.5	40	2.5
	35	42 x 2	40.5	50	2.5
	42	48 x 2	46.5	56	2.5
	6	12 x 1 ½	10.5	18	1.5
	8	14 x 1 ½	12.5	20	1.5
	10	16 x 1 ½	14.5	22	1.5
	12	18 x 1 ½	16.5	24	2.0
S Heavy	14	20 x 1 ½	18.5	26	2.0
	16	22 x 1 ½	20.5	28	2.5
	20	27 x 2	25.5	33	2.5
	25	33 x 2	31.5	40	2.5
	30	42 x 2	40.5	50	2.5
	38	48 x 2	46.5	56	2.5

##### Female Whitworth Thread Parallel (BSPOR)

	Tube OD	Metric Thread Size	Thread ID	A	B
	mm	mm	in.	mm	mm
	6	1/8-28	11/32	15	1.0
	8	1/4-19	15/32	19	1.5
	10	1/4-19	15/32	19	1.5
	12	3/8-19	19/32	23	2.0
L Light	15	1/2-14	3/4	27	2.5
	18	1/2-14	3/4	27	2.5
	22	3/4-14	31/32	33	2.5
	28	1-11	1 ½	40	2.5
	35	1 ¼-11	1 ¾	50	2.5
	42	1 ½-11	1 ⅞	56	2.5
	6	1/4-19	15/32	19	1.5
	8	1/4-19	15/32	19	1.5
	10	3/8-19	19/32	23	2.0
	12	3/8-19	19/32	23	2.0
S Heavy	14	1/2-14	3/4	27	2.5
	16	1/2-14	3/4	27	2.5
	20	3/4-14	31/32	33	2.5
	25	1-11	1 ½	40	2.5
	30	1 ¼-11	1 ¾	50	2.5
	38	1 ½-11	1 ⅞	56	2.5

##### Male Whitworth Thread Parallel (BSPP)

	Tube OD	Metric Thread Size	Thread OD	A	B	C
	mm	mm	in.	mm	mm	mm
	6	1/8-28	3/8	14	1.5	8
	8	1/4-19	1/2	17	2.0	12
	10	1/4-19	1/2	19	2.0	12
	12	3/8-19	21/32	21	2.5	12
L Light	15	1/2-14	13/16	23	2.5	12
	18	1/2-14	13/16	27	3.0	14
	22	3/4-14	1 ½	31	3.0	16
	28	1-11	1 ⅝	39	3.0	18
	35	1 ¼-11	1 ¾	49	3.0	20
	42	1 ½-11	1 ⅞	55	3.0	22

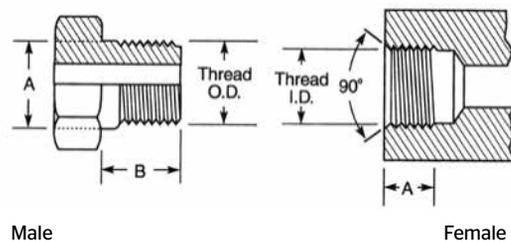
##### Male Whitworth Thread Parallel (BSPP)

	Tube OD	Metric Thread Size	Thread OD	A	B	C
	mm	mm	in.	mm	mm	mm
	6	1/4-19	1/2	17	2.0	12
	8	1/4-19	1/2	19	2.0	12
	10	3/8-19	21/32	21	2.5	12
	12	3/8-19	21/32	23	2.5	12
S Heavy	14	1/2-14	13/16	25	3.0	14
	16	1/2-14	13/16	27	3.0	14
	20	3/4-14	1 ½	32	3.0	16
	25	1-11	1 ⅝	39	3.0	18
	30	1 ¼-11	1 ¾	49	3.0	20
	38	1 ½-11	1 ⅞	55	3.0	22

## Fitting Standards

### German Thread Types

#### DIN 3852 Type C



#### Identification

Both male and female have tapered threads, and both are available in metric and Whitworth threads.

#### Seal

The male will only connect with the female as shown. The seal takes place on the threads.

#### Comments

Type C couplings are available in extra light (LL), light (L) and heavy (S).

#### Thread Identification Tables

##### DIN 3852 Type C

##### Male Metric Tapered Threads

	Tube OD	Metric Thread Size	Thread OD	A	B
	mm	mm	mm	mm	mm
LL Extra Light	4	8 x 1	8	8.40	8
	5	8 x 1	8	8.40	8
	6	10 x 1	10	10.40	8
	8	10 x 1	10	10.40	8
L Light	6	10 x 1	10	10.40	8
	8	12 x 1 ½	12	12.53	12
	10	14 x 1 ½	14	14.53	12
	12	16 x 1 ½	16	16.53	12
	15	18 x 1 ½	18	18.53	12
	18	22 x 1 ½	22	22.65	14
S Heavy	6	12 x 1 ½	12	12.53	12
	8	14 x 1 ½	14	14.53	12
	10	16 x 1 ½	16	16.53	12
	12	18 x 1 ½	18	18.53	12
	14	20 x 1 ½	20	20.65	14
	16	22 x 1 ½	22	22.65	14

##### Female Metric Tapered Threads

	Tube OD	Metric Thread Size	Thread ID	A
	mm	mm	mm	mm
LL Extra Light	4	8 x 1	6.5	5.5
	5	8 x 1	6.5	5.5
	6	10 x 1	8.5	5.5
	8	10 x 1	8.5	5.5
L Light	6	10 x 1	8.5	5.5
	8	12 x 1 ½	10.5	8.5
	10	14 x 1 ½	12.5	8.5
	12	16 x 1 ½	14.5	8.5
	15	18 x 1 ½	16.5	8.5
	18	22 x 1 ½	20.5	10.5
S Heavy	6	12 x 1 ½	10.5	8.5
	8	14 x 1 ½	12.5	8.5
	10	16 x 1 ½	14.5	8.5
	12	18 x 1 ½	16.5	8.5
	14	20 x 1 ½	18.5	10.5
	16	22 x 1 ½	20.5	10.5

DIN 3852 Type C continues on the next page.

## Fitting Standards

### German Thread Types

#### DIN 3852 Type C

##### Thread Identification Tables Continued

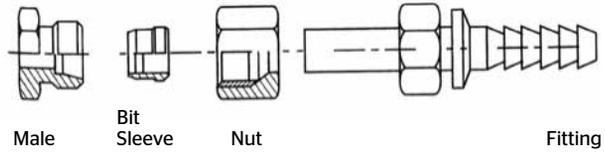
##### Male Whitworth Tapered Threads

	Tube OD	Thread Size	Thread OD	A	B
	mm	in.	mm	in.	mm
LL Extra Light	4	1/8-28	1/8	0.392	8
	5	1/8-28	1/8	0.392	8
	6	1/8-28	1/8	0.392	8
L Light	8	1/8-28	1/8	0.392	8
	6	1/8-28	1/8	0.392	8
	8	1/4-19	1/4	0.532	12
	10	1/4-19	1/4	0.532	12
	12	3/8-19	3/8	0.670	12
S Heavy	15	1/2-14	1/2	0.839	14
	18	1/2-14	1/2	0.839	14
	6	1/4-19	1/4	0.532	12
	8	1/4-19	1/4	0.532	12
	10	3/8-19	3/8	0.670	12
	12	3/8-19	3/8	0.670	12
	14	1/2-14	1/2	0.839	14
	16	1/2-14	1/2	0.839	14

##### Female Whitworth Tapered Threads

	Tube OD	Thread Size	Thread ID	A
	mm	in.	in.	mm
LL Extra Light	4	1/8-28	11/32	5.5
	5	1/8-28	11/32	5.5
	6	1/8-28	11/32	5.5
	8	1/8-28	11/32	5.5
L Light	6	1/8-28	11/32	5.5
	8	1/4-19	15/32	8.5
	10	1/4-19	15/32	8.5
	12	3/8-19	19/32	8.5
	15	1/2-14	3/4	8.5
S Heavy	18	1/2-14	3/4	10.5
	6	1/4-19	15/32	8.5
	8	1/4-19	15/32	8.5
	10	3/8-19	19/32	8.5
	12	3/8-19	19/32	8.5
	14	1/2-14	3/4	10.5
	16	1/2-14	3/4	10.5

### Standpipe Assembly



#### Identification

A metric standpipe is comprised of three components attached to a male fitting. The components are a standpipe, a bit sleeve and a metric nut.

#### Comments

The bit sleeve and standpipe are selected on the basis of tube OD. A DIN light metric nut or heavy metric nut can also be selected.

#### Thread Identification Table Metric Standpipe Assembly

Metric DIN Tube OD	Bit Sleeve DIN Tube OD	Metric Nut Thread	
		Light	Heavy
6	6	M 12 x 1 ½	
8	8	M 14 x 1 ½	M 16 x 1 ½
10	10	M 16 x 1 ½	M 18 x 1 ½
12	12	M 18 x 1 ½	M 20 x 1 ½
15	15	M 22 x 1 ½	
16	16		M 24 x 1 ½
18	18	M 26 x 1 ½	
20	20		M 30 x 2
22	22	M 30 x 2	
25	25		M 36 x 2
28	28	M 36 x 2	
30	30		M 42 x 2
35	35	M 45 x 2	
38	38		M 52 x 2
42	42	M 52 x 2	

## Fitting Standards

### German Thread Types

#### DIN 20066 4-Bolt Flange



Flange Head

4-Bolt Split Flange

#### Identification

The female port is an unthreaded hole surrounded with 4 bolt holes in a rectangular pattern. The male consists of a flanged head, grooved for an O-ring, and a flange with holes to match the port.

#### Seal

The seal takes place on the O-ring, which is compressed between the flanged head and the flat surface surrounding the port. The threaded bolts hold the connection mechanically.

#### Comments

There are two pressure ratings. Form R is similar to SAE Code 61 and is referred to as the “standard” series. Form S is similar to SAE Code 62 and is referred to as the “heavy-duty” series. The design concept is the same, but bolt diameters and flange head diameters are larger for the Form S fitting. Both metric and inch bolts are used. DIN 20066 is interchangeable with both SAE J518 and JIS B 8363.

#### Thread Identification Tables DIN 2066 4-Bolt Flange

##### Form R

Nominal Flange Size	Flange OD	A	B	C
in.				
1/2	1.188	0.688	1.500	0.265
5/8	1.345			0.265
3/4	1.500	0.875	1.875	0.265
1	1.750	1.031	2.062	0.315
1 ¼	2.000	1.188	2.312	0.315
1 ½	2.375	1.406	2.750	0.315
2	2.812	1.688	3.062	0.375
2 ½	3.312	2.000	3.500	0.375
3	4.000	2.438	4.188	0.375
3 ½	4.500	2.750	4.750	0.422
4	5.000	3.062	5.125	0.442
5	6.000	3.625	6.000	0.442

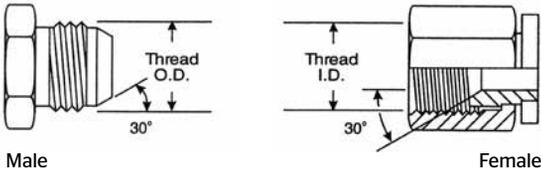
##### Form S

Nominal Flange Size	Flange OD	A	B	C
in.				
1/2	1.250	0.718	1.594	0.305
3/4	1.625	0.937	2.000	0.345
1	1.875	1.093	2.250	0.375
1 ¼	2.125	1.250	2.625	0.405
1 ½	2.500	1.437	3.125	0.495
2	3.125	1.750	3.812	0.495

## Fitting Standards

### Japanese Thread Types

#### JIS 30° (Parallel Pipe Threads)



**Identification**

The male and female have straight threads and a 30° seat.

**Seal**

The JIS 30° male will only connect with the JIS 30° female. The seal is made on the 30° seat. The threads hold the connection in place mechanically.

**Comments**

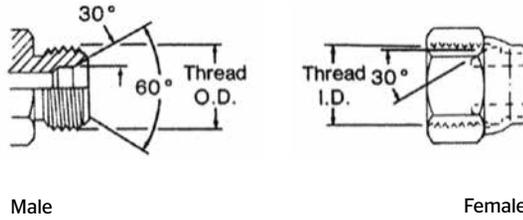
The JIC 37° flare is very similar to the JIS 30° flare. To determine the difference, carefully measure the seat angle. The threads on the JIS 30 conform to the JIS B 0202. While the BSPP fitting has similar threads, and also has a 30° seat, the JIS 30 is not interchangeable with the BSPP fitting as the British seat is inverted.

**Thread Identification Table**

**JIS 30° Flare Parallel**

Dash Size	Nominal Size	Thread Size	Female Thread ID	Male Thread OD
	in.		in.	in.
-2	1/8	1/8-28	11/32	3/8
-4	1/4	1/4-19	7/16	17/32
-6	3/8	3/8-19	19/32	21/32
-8	1/2	1/2-14	3/4	13/16
-10	5/8	5/8-14	13/16	29/32
-12	3/4	3/4-14	15/16	1 1/32
-16	1	1-11	1 3/16	1 1/16
-20	1 1/4	1 1/4-11	1 7/32	1 25/32
-24	1 1/2	1 1/2-11	1 25/32	1 7/8
-32	2	2-11	2 1/32	2 7/32

#### JIS 30° Male Inverted Seat (Parallel Pipe Threads) (JIS B 0202)



**Identification**

The JIS 30 Parallel has straight threads, conforming to JIS B 0202.

**Seal**

Both male and female have a straight thread and 30° seat and chamfer. The seal takes place by compression of the 30° seat on the chamfer. The threads hold the connection mechanically.

**Comments**

The BSPP fitting is fully interchangeable with the JIS 30 male inverted seat.

**Thread Identification Table**

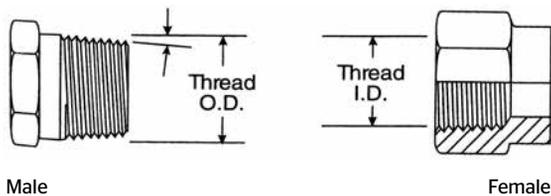
**JIS 30° Male Inverted Seat**

Dash Size	Nominal Size	Thread Size	Female Thread ID	Male Thread OD
	in.		in.	in.
-4	1/4	1/4-19	15/32	8/16
-6	3/8	3/8-19	19/32	21/32
-8	1/2	1/2-14	3/4	13/16
-12	3/4	3/4-14	31/32	1 1/32
-16	1	1-11	1 7/32	1 1/16
-20	1 1/4	1 1/4-11	1 9/16	1 25/32
-24	1 1/2	1 1/2-11	1 25/32	1 7/8
-32	2	2-11	2 1/4	2 11/32

## Fitting Standards

### Japanese Thread Types

#### JIS Tapered Pipe (JIS B 0203)



#### Identification

Both male and female have tapered threads that conform to JIS B 0203.

#### Seal

The seal is made within the threads through thread distortion. A thread sealant is recommended.

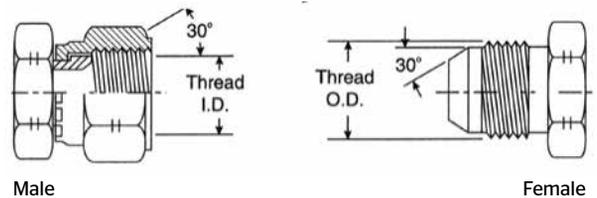
#### Comments

The JIS tapered pipe thread is similar to a BSPT fitting and is fully interchangeable.

#### Thread Identification Table JIS Tapered Pipe

Dash Size	Nominal Size	Thread Size	Female Thread ID	Male Thread OD
	in.			
-2	1/8	1/8-28	11/32	3/8
-4	1/4	1/4-19	7/16	17/32
-6	3/8	3/8-19	19/32	21/32
-8	1/2	1/2-14	3/4	13/16
-12	3/4	3/4-14	15/16	1 1/32
-16	1	1-11	1 3/16	1 3/16
-20	1 1/4	1 1/4-11	1 7/32	1 31/32
-24	1 1/2	1 1/2-11	1 25/32	1 7/8
-32	2	2-11	2 7/32	2 1/32

#### Komatsu® 30° Flare with Metric Threads (JIS B 0207)



#### Identification

Same as JIS B 0202, but conforms to JIS B 0207 with metric threads.

#### Seal

Both male and female have a straight thread and 30° seat and chamfer. The seal takes place by compression of the 30° seat on the chamfer. The threads hold the connection mechanically.

#### Comments

Also known as the Komatsu® style, it is used extensively on Komatsu® equipment.

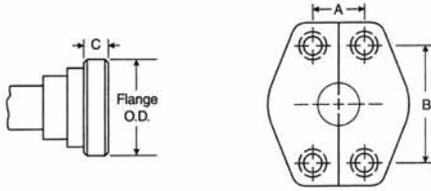
#### Thread Identification Table Komatsu® Style 30° Flare

Dash Size	Nominal Size		Metric Thread Size	Female Thread ID	Male Thread OD
	in.	mm			
-6	3/8	9.5	M 18 x 1 1/2	16.5	18
-8	1/2	13	M 22 x 1 1/2	20.5	22
-10	5/8	16	M 24 x 1 1/2	22.5	24
-12	3/4	19	M 30 x 1 1/2	28.5	30
-16	1	25	M 33 x 1 1/2	31.5	33
-20	1 1/4	32	M 36 x 1 1/2	34.5	36
-24	1 1/2	38	M 42 x 1 1/2	40.5	42

## Fitting Standards

### Japanese Thread Types

#### JIS B 8363 4-Bolt Flange



Male

Female

#### Identification

The female port is an unthreaded hole surrounded with 4 bolt holes in a rectangular pattern. The male consists of a flanged head, grooved for an O-ring, and a flange with holes to match the port.

#### Seal

The seal takes place on the O-ring, which is compressed between the flanged head and the flat surface surrounding the port. The threaded bolts hold the connection mechanically.

#### Comments

There are two pressure ratings. Type I is similar to SAE Code 61 and is referred to as the “standard” series. Type II is similar to SAE Code 62 and is referred to as the “heavy-duty” series. The design concept is the same, but bolt diameters and flange head diameters are larger for the Type II fitting. Both metric and inch bolts are used. JIS B 8363 is interchangeable with both SAE J518 and DIN 20066.

#### Thread Identification Tables

##### JIS B 8363 4-Bolt Flange

##### Type I

Nominal Flange Size	Flange OD	A	B	C
in.				
1/2	1.188	0.688	1.500	0.265
5/8	1.345			0.265
3/4	1.500	0.875	1.875	0.265
1	1.750	1.031	2.062	0.315
1 ¼	2.000	1.188	2.312	0.315
1 ½	2.375	1.406	2.750	0.315
2	2.812	1.688	3.062	0.375
2 ½	3.312	2.000	3.500	0.375
3	4.000	2.438	4.188	0.375
3 ½	4.500	2.750	4.750	0.422
4	5.000	3.062	5.125	0.442
5	6.000	3.625	6.000	0.442

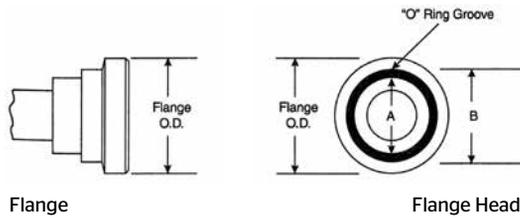
##### Type II

Nominal Flange Size	Flange OD	A	B	C
in.				
1/2	1.250	0.718	1.594	0.305
3/4	1.625	0.937	2.000	0.345
1	1.875	1.093	2.250	0.375
1 ¼	2.125	1.250	2.625	0.405
1 ½	2.500	1.437	3.125	0.495
2	3.125	1.750	3.812	0.495

## Fitting Standards

### Japanese Thread Types

#### Komatsu® Flange Fitting



Flange

Flange Head

#### Identification

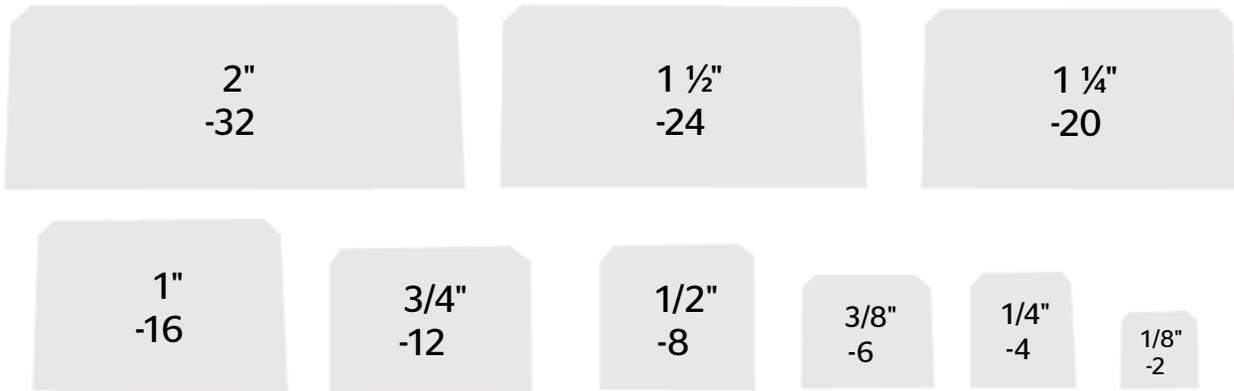
The Komatsu® Flange fitting is nearly identical to the SAE Code 61 flange fitting and fully interchangeable. As O-ring sizes are different, an SAE O-ring must be used when replacing the Komatsu® fitting with an SAE fitting.

Thread Identification Table  
Komatsu® Style Flange

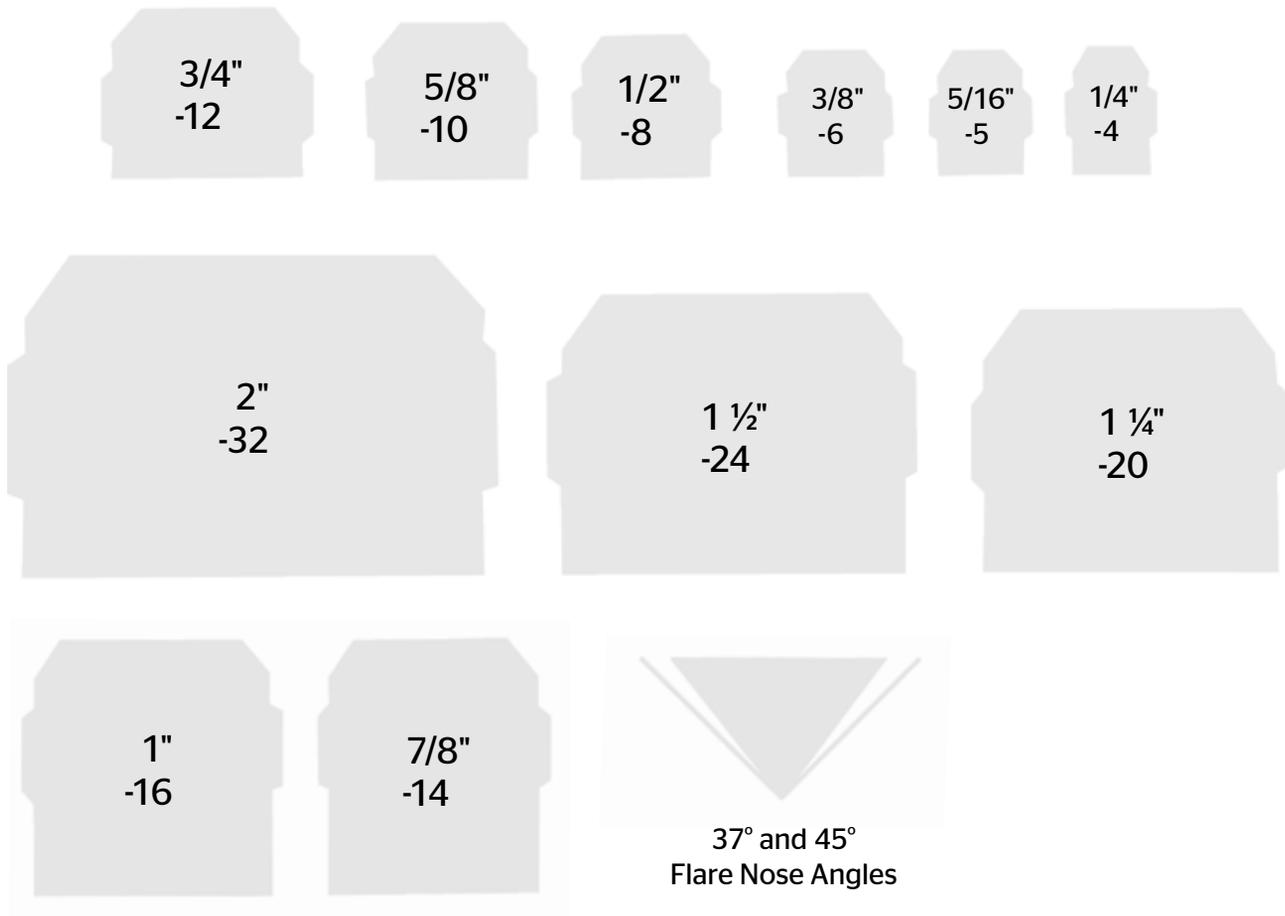
Dash Size	Nominal Size		Flange OD	A	B
	in.	mm			
-8	1/2	12.7	1.188	0.728	0.984
-10	5/8	15.9	1.345	0.728	1.102
-12	3/4	19.1	1.500	0.846	1.220
-16	1	25.4	1.750	1.122	1.496
-20	1 ¼	31.8	2.000	1.358	1.732
-24	1 ½	38.1	2.375	1.750	2.125
-32	2	50.8	2.812	2.225	2.559

# Fitting Identification Templates

## Male Pipe Thread Sizes



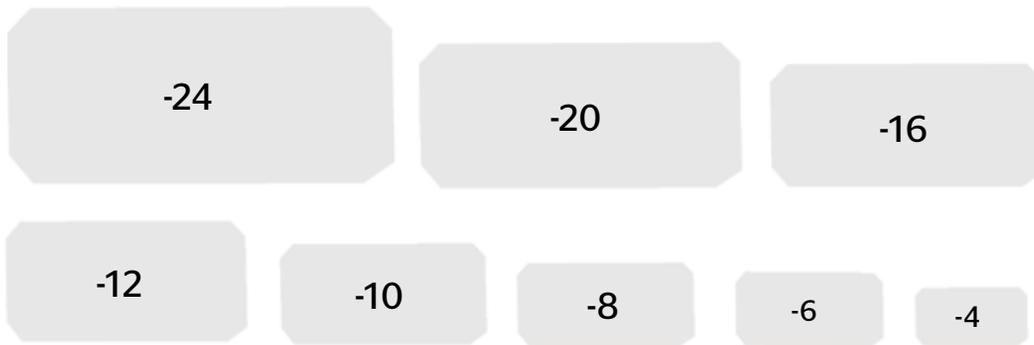
## JIC 37° Flare (SAE J514) Thread Sizes



### SAE 45° Flare (SAE J512) Thread Sizes

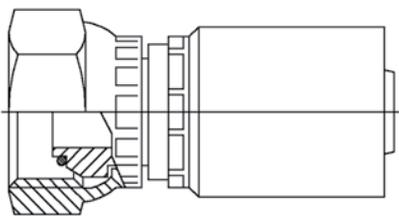


### O-Ring Face Seal (SAE J1453 ORS/ORFS)

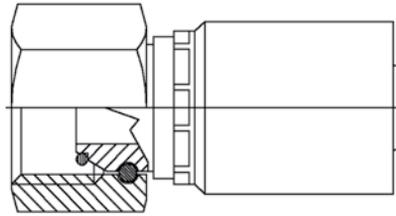


### Fitting Nuts

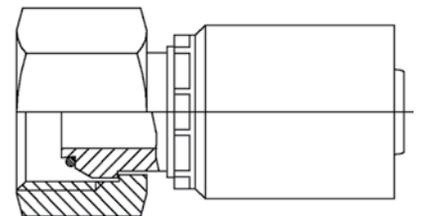
Continental fittings can have three types of nuts: Crimp Nut, Thrust-Wire Nut and Slip-On Nut. Shown below are sample images of the three types of nuts.



Crimp Nut



Thrust-Wire Nut



Slip-On Nut

# Torque Values

## O-Ring Face Seal (SAE J1453)

Dash Size	Thread Size	Swivel Nut Torque	
	in.	ft./lbs.	N/m
-4	9/16 - 18	10-12	14-16
-6	11/16 - 16	18-20	24-27
-8	13/16 - 16	32-35	43-47
-10	1 - 14	46-50	62-68
-12	1 1/8 - 12	65-70	88-95
-16	1 1/8 - 12	92-100	125-136
-20	1 1/8 - 12	125-140	170-190
-24	2 - 12	150-165	204-224

## O-Ring Boss Straight Thread (SAE J514)

Dash Size	Thread Size	Jam Nut or Straight Fitting Torque	
		ft./lbs.	N/m
-3	3/8 - 24	8-9	12-13
-4	7/16 - 20	13-15	18-20
-5	1/2 - 20	14-15	19-21
-6	9/16 - 18	23-24	32-33
-8	3/4 - 16	40-43	55-57
-10	7/8 - 14	43-48	59-64
-12	1 1/8 - 12	68-75	93-101
-14	1 3/8 - 12	83-90	113-122
-16	1 3/8 - 12	112-123	152-166
-20	1 3/8 - 12	146-161	198-218
-24	1 3/8 - 12	154-170	209-230
-32	2 1/2 - 12	218-240	296-325

## JIC 37° Flare (SAE J514)

Dash Size	Thread Size	Swivel Nut Torque	
	in.	ft./lbs.	N/m
-4	7/16 - 20	11-12	15-16
-5	1/2 - 20	15-16	20-22
-6	9/16 - 18	18-20	24-28
-8	3/4 - 16	38-42	52-58
-10	7/8 - 14	57-62	77-85
-12	1 1/8 - 12	79-87	108-119
-14	1 3/8 - 12	94-103	127-140
-16	1 3/8 - 12	108-113	148-154
-20	1 3/8 - 12	127-133	173-182
-24	1 3/8 - 12	158-167	216-227
-32	2 1/2 - 12	245-258	334-352

## Code 61 Flange Bolt (SAE J518)

Dash Size	Port Hole ID		
	in.	ft./lbs.	N/m
-8	1/2	15-19	20-25
-12	3/4	21-29	28-40
-16	1	27-35	37-48
-20	1 1/4	35-46	48-62
-24	1 1/2	46-58	62-79
-32	2	54-66	73-90
-40	2 1/2	79-91	107-124
-48	3	137-149	186-203

## Code 62 Flange Bolt (SAE J518)

Dash Size	Port Hole ID		
	in.	ft./lbs.	N/m
-8	1/2	15-19	20-25
-12	3/4	25-33	34-45
-16	1	42-50	56-68
-20	1 1/4	62-75	85-102
-24	1 1/2	116-133	158-181
-32	2	199-216	271-294

**JIS 30° (BB3632000)** Imperial

Dash Size	Thread Size	Swivel Nut Torque	
	in.	ft./lbs.	N/m
-4	1/4 - 19	19	25
-6	3/8 - 19	25	34
-8	1/2 - 14	49	64
-10	5/8 - 14	100	132
-12	3/4 - 14	100	132
-16	1 - 11	149	196
-20	1 ¼ - 11	171	225
-24	1 ½ - 11	194	255
-32	2 - 11	240	316

**JIS 30° (BB3632000)** Metric

Thread Size	Swivel Nut Torque	
mm	ft./lbs.	N/m
M 10 x 1	13-15	18-20
M 12 x 1.5	15-19	20-25
M 14 x 1.5	19-23	25-30
M 16 x 1.5	33-40	45-55
M 18 x 1.5	37-44	50-60
M 20 x 1.5	52-66	70-90
M 22 x 1.5	55-70	75-95
M 26 x 1.5	81-96	110-130
M 27 x 2	96-111	130-150
M 33 x 2	162-184	220-250
M 42 x 2	170-192	230-260
M 48 x 2	258-347	350-470

**Dry NPTF (Tapered) Pipe Threads**

Dash Size	Maximum Recommended Torque (Dry)	
	ft./lbs.	N/m
-2	20	25
-4	25	35
-6	35	45
-8	45	60
-12	55	75
-16	65	90
-20	80	110
-24	95	130
-32	120	160

**BSPP (British Standard Pipe Parallel)**

Dash Size	Thread Size	With O-Ring		Without O-Ring	
		ft./lbs.	N/m	ft./lbs.	N/m
-2	G 1/8 - 28	N/A	N/A	7	10
-4	G 1/4 - 19	15	20	15	20
-6	G 3/8 - 19	26	35	26	35
-8	G 1/2 - 14	37	50	44	60
-10	G 5/8 - 14	44	60	52	70
-12	G 3/4 - 14	63	85	85	115
-16	G 1 - 11	85	115	103	140
-20	G 1 ¼ - 11	140	190	155	210
-24	G 1 ½ - 11	177	240	214	290
-32	G 2 - 11	221	300	295	400

G= Parallel Threads

**Notes**

1. The torque values obtained from tightening pipe threads can vary considerably depending on thread condition. Adequate sealing can occur at values much lower than the maximum values listed above. Only enough torque to achieve adequate sealing should be used.
2. When using a male tapered pipe thread with a female straight or parallel pipe thread, maximum values are 50% of those listed in the table.
3. If thread sealant is used, maximum values shown should be decreased by 25%.

# Hose ID Selection Nomograph

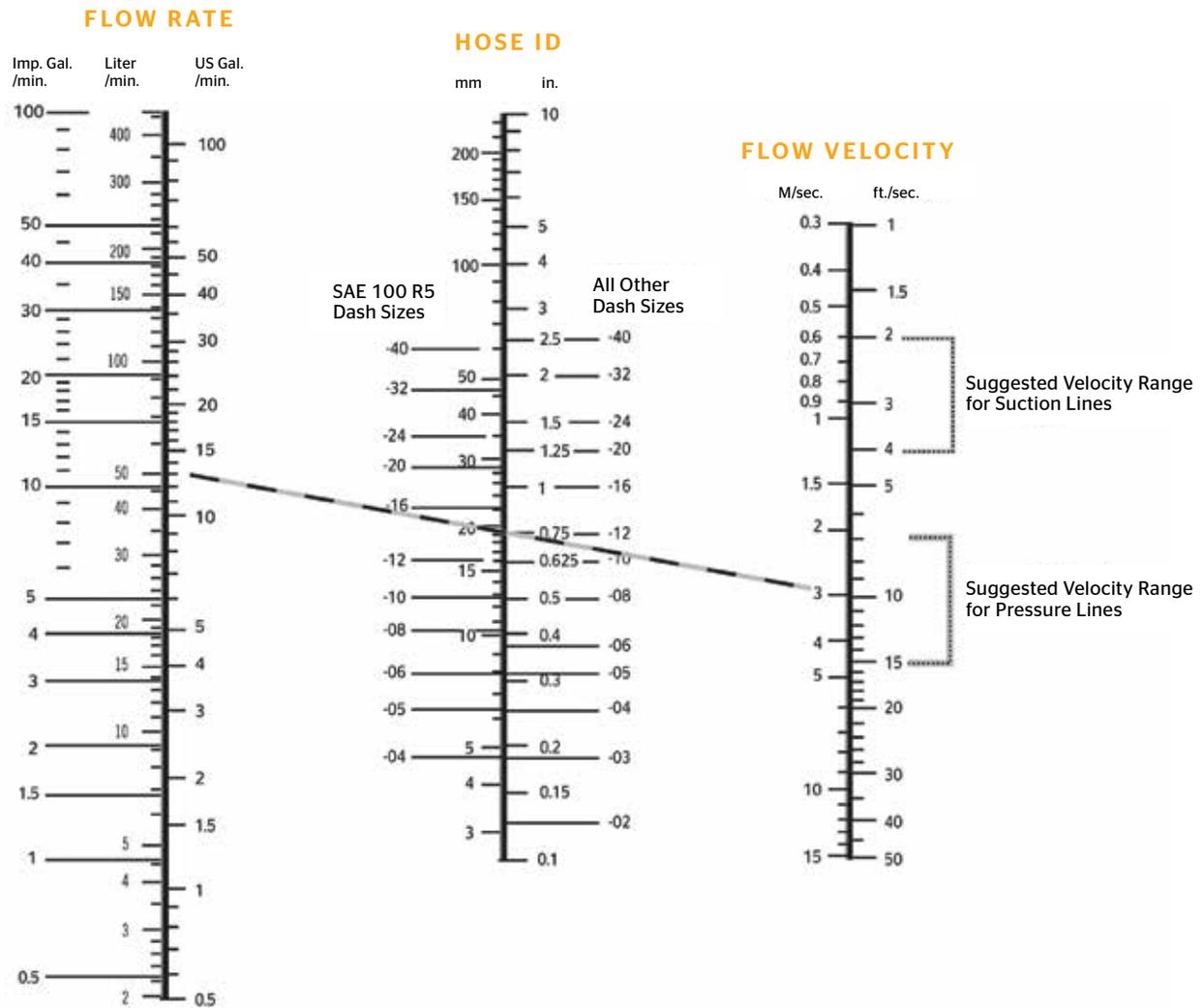
The chart below is intended to aid in the selection of the correct hose size. By choosing a flow rate and a flow velocity, the optimum Hose ID can be determined. Selecting the correct Hose ID is important to prevent an oversized assembly, which can be heavy and costly, or an undersized assembly that causes an excessive pressure drop.

## Selecting the Correct Hose ID

1. Choose flow rate and flow velocity. Locate each value on its grid.
2. Lay a straightedge to connect the two values.
3. The recommended Hose ID is located on the ID scale, at the intersection of the line drawn between flow rate and flow velocity. Should the line intersect between two values, use the next highest ID.

Example: To find the correct Hose ID for a system running at 13 gallons/minute and 10 feet/second, draw a line between the two values on each grid. The intersection of that line on the ID grid is 3/4" ID.

Recommendations are based on a oil viscosity of 315 S.S.U., at 100°F, operating at a temperature of 65°F to 155°F.



The following table represents the maximum flow rate in gallons per minute (GPM) by Hose ID for pressure lines and suction lines. The recommended maximum fluid velocity for pressure systems is 15 feet per second (FPS).

Hose ID	Recommended Maximum Flow (GPM) Pressure Lines	Recommended Maximum Flow (GPM) Suction Lines
	in.	in.
3/16	1.29	0.35
1/4	2.30	0.61
5/16	3.59	0.96
3/8	5.16	1.38
13/32	6.06	16.20
1/2	9.18	2.45
5/8	14.35	3.83
3/4	20.66	5.51
7/8	28.12	7.50
1	36.72	9.79
1 1/8	46.48	12.39
1 1/4	57.38	15.30
1 3/8	69.43	18.51
1 1/2	82.63	22.03
1 5/8	120.64	32.17
2	146.89	39.17

Use the following formulas for Velocity, Gallons per Minute or Hose ID:

$$V = \text{Velocity in Feet per Second (FPS)} = (.408 \times \text{GPM}) / D^2$$

$$\text{GPM} = \text{Flow rate in Gallons per Minute (GPM)} = V \times D^2 / 0.408$$

$$D = \text{Hose ID (in.)} = \sqrt{\frac{0.408 \times \text{GPM}}{V}}$$

The recommended maximum velocity for hydraulic systems is 15 FPS. For higher velocity, contact Continental Technical Support with specific system information.

$$\text{Imperial Gallon} = \text{U.S. Gallon} \times 0.83267$$

$$\text{U.S. Gallon} = \text{Imperial Gallon} \times 1.20095$$

$$\text{Liter} = \text{U.S. Gallon} \times 3.785$$

$$\text{U.S. Gallon} = \text{Liter} \times 0.2642$$

## Hose Pressure Drop

Pressure drop is defined as the difference in input pressure and output pressure of a hose assembly. There are many factors which can contribute to pressure drop including the length of the hose assembly, the type and temperature of the fluid, the flow rate, the inside diameter of the hose and the type of couplings used.

If pressure drop is a concern, this chart can be used for a quick estimate for a hose assembly that is 10 feet long with a fluid specification of .85 specific gravity, a viscosity of 20 centistokes (97 S.S.U.) and a temperature of 100°F (38°C). Differences in fluids, fluid temperature and viscosity can increase or decrease actual pressure drop compared to the values listed.

### Pressure Drop (psi)

Dash Size	-3	-4	-5	-6	-8	-10	-12	-16	-20	-24	-32	-40	-48
Hose ID (in.)	3/16	1/4	5/16	3/8	1/2	5/8	3/4	1	1¼	1½	2	2½	3
U.S.	0.25	10	3.1										
	0.50	19	6	2.7									
GPM	1	40	12	5.5	2.4								
	2	95	24	10	4.8								
	3	185	46	17	7	2.2							
	4		78	29	12	3	1.2						
	5		120	44	18	4.5	1.6	0.7					
	8			95	39	10	3.6	1.4					
	10				59	15	5.7	2	0.6				
	12				80	20	7.2	2.6	0.8				
	15					30	10	4.2	1.2	0.4			
	18					40	15	6.3	1.5	0.6			
	20					49	19	8	2	0.7	0.3		
	25					72	26	11	3	1	0.4		
	30						34	14	3.6	1.3	0.5	0.1	
	35						47	19	5	1.7	0.7	0.2	
	40							25	6.5	2.2	0.9	0.2	
	50							36	9	3.3	1.3	0.4	0.2
	60							50	12	4.4	1.8	0.5	0.2
	70								17	6	2.4	0.7	0.3
80								21	7.1	3	0.8	0.3	0.1
90								27	9	3.8	1	0.5	0.1
100								33	12	4.7	1.3	0.6	0.2
150								60	22	8.5	2.2	1	0.3
200									36	15	3.9	1.7	0.6
250									54	22	5.3	2.5	0.8
300										29	7.5	4	1.1
400										51	14	6.5	2.2
500											20	10	3
800												18	5
1000													10

## Chemical Resistance Tables

The following chemical resistance tables indicate the suitability of various elastomers and metals for use with fluids being conveyed. The ratings given are intended as a guide only and not a guarantee. Ratings are for tube compound only, unless otherwise stated. The final selection of the proper hose and fitting is further dependent on many factors including temperature, concentration and length of exposure.

Hose ratings are for the impact on the polymer only. The degree of resistance of a rubber compound to a specific fluid depends on the variables of temperature, concentration and length of exposure. When in doubt or when conditions vary, contact Continental for assistance before using a specific product.

### Ratings and Definitions

- E** The fluid is expected to have a minor or no effect on the hose and compound. Product may be used in continuous service. Changes in the substance, such as concentration or temperature, may impact hose product performance and cause degradation of the product.
- G** The hose and compound may be used for continuous or intermittent service, however the product properties will be impacted by the exposure to the chemical. Changes in the substance, such as concentration or temperature, may impact hose product performance and cause degradation of the product.
- X** The hose and compound should not be used with this fluid.

**Blank** No data is available.

**WARNING:** Compatibility of hose fittings with the fluid is an essential factor in avoiding chemical reactions that may result in loss of fluid or failure of the hose connection, with the potential of causing personal injury or property damage.

## Chemical Resistance Tables

The following is a representative list of fluids, manufacturers and a general guideline for the use and compatibility of Continental hose and fittings.

### Rating Scale

**E** Excellent Resistance    **X** Not Recommended  
**G** Good Resistance    **-** Testing Recommended    **Blank** No Data

### Hose

### Fittings and Adapters

Chemical Name	PTFE (Teflon®)	CR (Polychloroprene)	NBR (Nitrile)	Nitrile / PVC	CPE	CSM	Urethane	Nylon	Carbon Steel	Stainless Steel 304	Stainless Steel 316	Aluminum	Brass
Absorption Oil		G	E	G	-	G	-	-	-	-	-	-	E
Acetaldehyde	E	X	X	X	-	X	E	G	E	E	E	E	E
Acetamide	E	E	G	-	-	-	X	-	-	-	-	-	-
Acetate Solvent Crude	E												
Acetate Solvent Pure	E												
Acetic Acid, 100%	E	X	X	-	-	-	-	X	X	X	G	G	X
Acetic Acid, 100% (Hot Vapors) (to 200°F)	E	G	G	-	-	-	-	X	X	X	G	G	X
Acetic Acid, 100% Boiling		X	X	-	-	-	X	X	X	X	G	-	X
Acetic Acid, 25%		G	X	G	E	G	-	X	X	G	G	G	X
Acetic Acid, 30%	E	G	X	-	E	-	-	G	X	G	E	G	X
Acetic Acid, 50%		G	X	G	E	-	-	G	X	G	G	G	X
Acetic Acid, 50% Boiling		X	X	-	-	-	-	X	X	X	G	-	-
Acetic Acid, 5-20%		G	X	G	E	G	X	E	X	G	G	G	X
Acetic Acid, 80%		X	X	-	-	-	-	X	X	G	G	G	X
Acetic Acid, 80% Boiling		X	X	-	-	-	-	X	X	X	G	X	X
Acetic Acid, Aerated		-	-	-	-	-	-	-	X	X	X	-	X
Acetic Acid, Air Free		-	-	-	-	-	-	-	X	X	X	-	X
Acetic Acid, Anhydride	E	X	X	X	E	G	-	X	X	G	G	G	X
Acetic Acid, Crude		X	X	-	-	-	-	E	X	G	E	G	X
Acetic Acid, Glacial	E	X	X	X	E	X	X	X	X	G	G	G	-
Acetil Bromide													
Acetil Chloride													
Acetil Chromide													
Acetone (Dimethylketone)	E	X	X	X	E	X	X	E	E	E	E	E	E
Acetonitrile (Methyl Cyanide)		G	X	G	E	G	-	-	-	-	-	-	-
Acetophenone													
Acetylene	E	G	G	E	E	-	-	E	E	E	E	E	G
Acrylic Esters													
Acrylonitrile (Vinyl Cyanide)	E	X	X	X	E	X	-	-	E	E	E	G	E
Adipic Acid													
Aero Lubriplate		E	E	-	-	-	-	-	E	E	E	E	-
Aero Safe 2300		X	X	-	-	-	X	-	E	E	E	E	E
Aeroshell 17A Grease		G	E	-	-	-	X	-	E	E	E	E	-
Aeroshell 750		X	G	-	-	-	X	-	E	E	E	E	-
Aeroshell 7A Grease		G	E	-	-	-	X	-	E	E	E	E	-
Aeroshell Type 1A, 1AC, 4		G	E	-	-	-	E	-	-	-	-	-	-
Air 150°F		E	E	E	E	E	E	E	E	E	E	E	E
Air 180°F		G	G	G	E	G	G	E	E	E	E	E	E
Air 200° F		X	X	X	E	X	G	G	E	E	E	E	E
Air Ambient		E	E	E	E	E	E	E	E	E	E	E	E
Aircraft Hydr Oil AA		-	E	-	-	-	-	-	E	E	E	E	E

Underline is cover compound rating only. Many factors, such as temperature, concentration and length of exposure, are relevant to how chemical exposure impacts the tube and cover or fitting material. The fluid manufacturer's recommended maximum operating temperature should be carefully observed. Exceeding the manufacturer's recommended maximum temperature can result in fluid breakdown and cause harm or shorten the life of tube and cover materials. There may be instances where the hose cover could be adversely impacted by fluids which would not chemically impact the hose tube. Conversely, some fluids with an adverse affect on the tube of the hose may not have a deteriorating impact on the hose cover. It is recommended that the user test the hose/fluid compatibility to their own standards. Since no industry standards exist for chemical resistance, the Compass Chemical Resistance Guide for Elastomers is used whenever possible. Teflon® is a registered trademark of Dupont.

## Chemical Resistance Tables

The following is a representative list of fluids, manufacturers and a general guideline for the use and compatibility of Continental hose and fittings.

### Rating Scale

**E** Excellent Resistance      **X** Not Recommended  
**G** Good Resistance      **-** Testing Recommended      **Blank** No Data

Chemical Name	Hose								Fittings and Adapters				
	PTFE (Teflon®)	CR (Polychloroprene)	NBR (Nitrile)	Nitrile / PVC	CPE	CSM	Urethane	Nylon	Carbon Steel	Stainless Steel 304	Stainless Steel 316	Aluminum	Brass
Alcohol	E	E	E	-	-	-	-	-	E	E	E	E	E
Alcohol, Amyl		G	G	-	-	-	-	E	-	G	E	G	-
Alcohol, Benzyl		X	X	-	E	G	G	-	E	E	E	-	-
Alcohol, Butyl		G	X	G	-	G	E	E	E	E	E	E	E
Alcohol, Denatured		E	E	-	-	E	-	E	E	E	E	E	E
Alcohol, Diacetone		-	X	-	-	G	-	-	E	E	E	E	E
Alcohol, Ethyl (Ethanol)		E	E	E	E	E	G	E	E	E	E	E	G
Alcohol, Furfural		G	X	X	E	G	-	-	G	E	E	E	E
Alcohol, Hexyl (Hexanol)		G	E	-	-	X	-	-	E	E	E	E	G
Alcohol, Isobutyl		G	G	-	-	E	-	E	E	E	E	E	G
Alcohol, Isopropyl (Isopropanol)		G	G	G	-	G	G	E	E	E	E	E	G
Alcohol, Methyl (100%) (Methanol)		E	E	E	E	E	-	E	E	E	E	E	G
Alcohol, Methyl (6%)		E	E	E	-	E	-	E	E	E	E	E	G
Alcohol, Octyl		G	G	-	-	-	-	E	E	E	E	E	-
Alcohol, Propyl		E	E	-	-	-	-	X	G	E	E	E	E
Aliphatic (to 70°F)	E												
Alkazene		X	X	X	-	X	X	-	E	E	-	-	-
Alkyd Resins													
Aluminum Chloride	E	E	E	E	E	E	G	X	X	G	G	X	X
Aluminum Fluoride, 20%+A21	E	E	E	E	E	E	G	X	X	G	G	G	X
Aluminum Hydroxide	E	E	E	E	E	E	-	E	-	E	E	-	E
Aluminum Hydroxide, Saturated		E	E	-	-	-	-	E	-	E	E	-	-
Aluminum Nitrate	E	E	E	E	E	E	G	-	X	E	E	G	-
Aluminum Sulfate	E	E	E	E	E	E	X	E	X	X	G	X	X
Alums (Ammonium or Potassium)	E	E	E	E	E	E	-	-	X	G	G	X	X
Ammonia Gas Cold, Dry (to 175°F)													
Ammonia Gas Cold, Wet (to 480°F)													
Ammonia Liquid (Anhydrous)													
Ammonia, Aqueous	E	E	G	E	-	E	-	E	-	E	E	-	X
Ammonium Acetate	E												
Ammonium Carbonate													
Ammonium Chloride, 1%	E	X	G	E	E	E	E	E	X	G	G	X	X
Ammonium Chloride, 10% Boiling	E	X	X	-	-	-	-	X	X	G	G	X	X
Ammonium Chloride, 28% Boiling	E	X	X	-	-	-	-	X	X	G	G	X	X
Ammonium Chloride, 50% Boiling	E	X	X	-	-	-	-	X	G	E	E	-	X

Underline is cover compound rating only. Many factors, such as temperature, concentration and length of exposure, are relevant to how chemical exposure impacts the tube and cover or fitting material. The fluid manufacturer's recommended maximum operating temperature should be carefully observed. Exceeding the manufacturer's recommended maximum temperature can result in fluid breakdown and cause harm or shorten the life of tube and cover materials. There may be instances where the hose cover could be adversely impacted by fluids which would not chemically impact the hose tube. Conversely, some fluids with an adverse affect on the tube of the hose may not have a deteriorating impact on the hose cover. It is recommended that the user test the hose/fluid compatibility to their own standards. Since no industry standards exist for chemical resistance, the Compass Chemical Resistance Guide for Elastomers is used whenever possible. Teflon® is a registered trademark of Dupont.

## Chemical Resistance Tables

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### Rating Scale

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Chemical Name	Hose								Fittings and Adapters				
	PTFE (Teflon®)	CR (Polychloroprene)	NBR (Nitrile)	Nitrile / PVC	CPE	CSM	Urethane	Nylon	Carbon Steel	Stainless Steel 304	Stainless Steel 316	Aluminum	Brass
Ammonium Hydroxide	E	G	G	G	E	E	X	E	G	E	E	-	X
Ammonium Hydroxide, 3 Molar		E	X	-	-	-	G	-	X	G	G	X	X
Ammonium Hydroxide Concentrated		E	X	-	E	-	X	E	X	G	G	X	X
Ammonium Metaphosphate	E	G	G	G	-	G	-	-	E	E	E	X	-
Ammonium Nitrate, Fertilizer	E	E	G	E	E	E	E	X	E	E	E	G	X
Ammonium Nitrite		-	-	-	-	-	-	E	G	E	E	X	-
Ammonium Persulfate		X	X	X	E	-	X	X	X	G	G	X	X
Ammonium Persulfate 10%		E	X	-	-	-	X	X	X	G	G	X	X
Ammonium Persulfate 5%		E	X	-	-	-	-	X		G	G	X	X
Ammonium Phosphate (Mono, Di, Tri, Basic)	E	E	E	E	E	E	E	G	X	G	G	X	-
Ammonium Sulfate	E	E	G	E	E	E	E	X	X	X	G	X	X
Ammonium Sulfide	E	E	E	E	-	E	-	E	E	E	E	E	G
Ammonium Thiocyanate	E	E	E	-	E	E	-	-	E	E	E	-	-
Amyl Chloride	E	X	-	X	G	X	-	G	-	E	E	-	-
Amyl Chloronaphthalene	E	X	X	X	-	X	-	-	-	E	E	-	-
Amyl Naphthalene	E	X	X	X	-	X	-	-	-	E	E	-	-
Amyl Phenol		-	-	-	-	-	-	-	-	E	E	-	-
Amyl Acetate	E	X	X	X	G	X	G	E	X	E	E	X	G
Amyl Alcohol	E	E	E	E	E	E	G	X	X	G	G	G	X
Amyl Borate		G	G	G	-	-	-	-	-	-	-	-	-
AN-0-3 Grade M		E	E	-	-	-	-	-	-	-	-	-	-
AN-0-366		E	E	-	-	-	-	-	-	-	-	-	-
AN-0-6		E	E	-	-	-	-	-	-	-	-	-	-
Anderol, L-774 (Diester)		X	G	-	-	-	-	X	-	-	-	-	-
Anderol, L-826 (Diester)		X	G	-	-	-	-	X	-	-	-	-	-
Anderol, L-829 (Diester)		X	G	-	-	-	-	X	-	-	-	-	-
ANG-25 (Diester Base,TG749)		X	G	-	-	-	-	X	E	E	E	E	-
ANG-25 (Glycerol Ester)		G	G	-	-	-	-	G	-	-	-	-	-
Aniline	E	X	X	X	G	X	X	G	G	E	E	X	X
Aniline Dyes	E												
Animal Fat	E												
Animal Gelatin		E	E	-	E	-	-	-	-	E	E	-	-
Animal Oil (Lard Oil)	E	G	E	-	E	-	-	-	E	E	E	E	-
Antifreeze, Alcohol Base		G	G	G	G	G	-	-	E	E	E	E	-
Antifreeze, Glycol Base	E	G	E	E	E	E	-	E	E	E	E	E	E
Antimony Chloride, 50% (to 70°F)	E	-	E	-	-	-	-	X	X	X	X	-	-
AN-VV-0-366B Hydraulic Fluid		E	-	-	-	-	-	G	-	-	-	-	-
Aqua Regia (Concentrated)	E	X	X	X	G	X	X	X	X	X	X	X	-
Arco A.T.F. Dexron		-	E	-	-	-	-	-	-	-	-	-	-

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Chemical Name	Hose								Fittings and Adapters				
	PTFE (Teflon®)	CR (Polychloroprene)	NBR (Nitrile)	Nitrile / PVC	CPE	CSM	Urethane	Nylon	Carbon Steel	Stainless Steel 304	Stainless Steel 316	Aluminum	Brass
Arco C2, 100		-	E	-	-	-	-	-	-	-	-	-	-
Argon Gas	E												
Aromatic Fuel 30%, Mil		-	-	-	-	-	-	-	-	-	-	-	-
Aromatic Fuel 50%		X	G	-	-	-	-	-	-	-	-	-	-
Aromatic Hydrocarbons	E	X	X	-	-	X	G	-	G	E	G	G	G
Arsenic Salt (to 70°F)	E												
Askarel, Transformer Oil	-	X	X	X	-	X	-	-	E	E	E	-	E
Asphalt, Cut Back (Including Emulsions)	E	X	G	G	-	X	E	E	E	E	E	G	G
Asphalt, Topping (Including Emulsions)	E	E	X	-	-	-	-	-	E	E	E	-	-
Asphalt, Under 180°F (Including Emulsions)	E	G	G	G	X	X	E	-	E	E	E	-	G
ASTM Oil N° 1	E	E	E	E	E	G	E	E	E	E	E	E	E
ASTM Oil N° 2	E	G	E	-	G	-	E	E	E	E	E	E	E
ASTM Oil N° 3	E	X	E	X	X	X	-	E	E	E	E	E	E
ASTM Oil N° 4	E	X	G	-	-	-	-	-	E	E	E	E	-
ASTM Reference Fuel A (to 300°F)	E	G	E	E	E	E	-	E	E	E	E	E	E
ASTM Reference Fuel B (to 300°F)	E	G	E	G	G	X	-	-	E	E	E	E	E
ASTM Reference Fuel C (to 300°F)	E	X	G	X	G	X	-	-	E	E	E	-	E
ATL-857		X	G	-	-	-	-	-	-	-	-	-	-
Atlantic Dominion F		G	E	-	-	-	-	-	-	-	-	-	-
Aurex 903R (Mobil)		G	E	-	-	-	-	-	-	-	-	-	-
Automatic Brake Fluid		G	X	-	-	-	-	-	E	E	E	E	-
Automatic Transmission Fluid		G	E	-	E	-	-	-	E	E	E	E	-
Aviation Gasoline, Mil		-	G	-	-	-	-	-	E	E	E	E	-
Baltic Types 100, 150, 200, 300, 500		-	E	-	-	-	-	-	-	-	-	-	-
Banvel Concentrated (Ag Spray)		-	-	-	-	-	-	E	-	-	E	-	-
Bardol B		X	X	X	-	X	-	-	E	E	E	-	-
Barium Chloride	E	X	E	E	E	E	E	E	X	G	G	X	E
Barium Chloride, 5%	E	X	E	-	-	-	-	X	G	E	E	X	G
Barium Chloride, Aqueous Solution (Hot)		X	E	-	-	-	-	X	G	G	G	X	-
Barium Concentrate		E	E	E	E	E	-	E	G	E	E	X	-
Barium Hydroxide	E	E	E	E	E	E	X	E	X	E	E	X	X
Barium Sulfate	E	E	E	-	E	G	-	E	G	E	E	G	G
Barium Sulfate, Aqueous Solution (Hot)	E	X	-	-	-	-	-	X	G	E	E	G	X
Barium Sulfide	E	G	E	E	E	E	-	G	X	E	E	X	-
Baygon													-

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### Hose

### Fittings and Adapters

Chemical Name	Hose								Fittings and Adapters				
	PTFE (Teflon®)	CR (Polychloroprene)	NBR (Nitrile)	Nitrile / PVC	CPE	CSM	Urethane	Nylon	Carbon Steel	Stainless Steel 304	Stainless Steel 316	Aluminum	Brass
Bayol 35		-	E	-	-	-	-	-	-	-	-	-	-
Bayol D		-	E	-	-	-	-	-	-	-	-	-	X
Beer	E												-
Beet Sugar Liquors	E	X	E	E	E	E	X	-	G	G	G	G	E
Bellows 80-20 Hydraulic Oil		-	E	-	-	-	G	-	-	-	-	-	E
Benzaldehyde	E	X	X	X	G	X	E	E	E	E	E	E	E
Benzene, Benzo	E	X	X	X	X	X	G	E	E	E	E	E	-
Benzine, Petroleum Ether		X	G	X	E	-	G	-	E	E	E	E	X
Benzine, Petroleum Naphtha	E												E
Benzoic Acid													G
Benzyl Alcohol	E												X
Black Point 77		-	E	-	-	-	-	-	-	-	-	-	X
Black Sulfate Liquor	E	G	G	G	G	G	-	E	G	E	E	X	-
Blast Furnace Gas	E	X	X	X	-	X	X	-	E	E	E	G	E
Borax, Sodium Borate	E	X	G	G	E	E	E	X	G	E	E	X	E
Bordeaux Mixture	E	G	G	G	-	-	E	E	X	-	E	E	-
Boric Acid	E	E	E	E	-	E	E	X	X	G	G	E	-
Boron Fuels, HEF		X	X	-	-	-	-	-	-	-	-	-	-
Brake Fluid, Petroleum Base (to 300°F)	E	G	E	G	E	X	-	-	E	E	E	-	-
Brake Fluid, Synthetic Base		X	X	X	E	X	-	-	E	E	E	E	-
Bray GG-130		X	G	-	-	-	-	-	-	-	-	-	-
Brayco 719-R (VV-H-910)		G	X	-	-	-	-	-	-	-	-	-	E
Brayco 885 (MIL-L-6085A)		X	G	-	-	-	-	-	-	-	-	-	-
Brayco 910		G	G	-	-	-	-	-	-	-	-	-	E
Brine	E												E
Brom-113		X	G	-	-	-	-	-	-	-	-	-	-
Brom-114		G	G	-	-	-	-	-	-	-	-	-	X
Bromine (Permeable)	E												X
Bunker Oil	E	X	G	G	-	X	G	-	E	E	E	E	X
Butane	E	X	X	X	-	X	X	X	X	-	-	-	E
Butanone, MEK													-
Butyl Acetate	E	X	X	X	G	X	-	-	G	E	E	E	X
Butyl Acetate	E												G
Butyl Alcohol, Butanol	E												X
Butyl Cellosolve	E												X
Butyl Stearate	E												X
Butylene (Permeable)	E												X
Butyraldehyde	E												X
Cadmium Salts (to 70°F)	E												
Calcium Acetate	E	X	X	X	E	X	-	-	G	G	G	X	E
Calcium Arsenate		-	-	-	-	-	E	E	-	-	-	-	E
Calcium Bisulfate	E	E	E	G	E	E	-	-	-	G	E	-	E

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## Chemical Resistance Tables

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### Rating Scale

**E** Excellent Resistance      **X** Not Recommended  
**G** Good Resistance      **-** Testing Recommended      **Blank** No Data

Chemical Name	Hose								Fittings and Adapters				
	PTFE (Teflon®)	CR (Polychloroprene)	NBR (Nitrile)	Nitrile / PVC	CPE	CSM	Urethane	Nylon	Carbon Steel	Stainless Steel 304	Stainless Steel 316	Aluminum	Brass
Calcium Bisulfide	E	E	E	G	E	E	E	-	-	G	G	X	-
Calcium Bisulfite	E	E	E	E	E	E	-	E	X	E	E	E	G
Calcium Carbonate	E	E	E	E	E	E	E	E	G	E	E	X	X
Calcium Chlorate	E	E	E	E	-	E	-	-	G	G	E	E	E
Calcium Chloride	E	E	E	E	E	E	E	E	X	G	G	X	E
Calcium Hydroxide	E	E	G	G	E	E	X	-	X	X	E	-	X
Calcium Hydroxide, 10% Boiling		-	G	-	-	-	-	X	G	E	E	X	E
Calcium Hydroxide, 20% Boiling		-	-	-	-	-	-	X	-	E	E	X	-
Calcium Hydroxide, 50% Boiling		-	-	-	-	-	-	X	-	X	G	X	G
Calcium Hypochlorite, 15% (Under 100°F)	E	X	-	X	E	G	-	X	-	X	G	X	X
Calcium Hypochlorite, 5% (Under 100°F)	E	X	G	X	E	G	-	X	X	X	G	X	E
Calcium Nitrate	E	E	E	E	E	E	-	E	X	G	G	X	X
Calcium Salts (to 70°F)	E												
Calcium Silicate	E	-	G	-	E	G	-	-	E	E	E	E	X
Calcium Sulfate	E	E	E	E	E	E	-	-	G	E	E	G	-
Calcium Sulfide	E	E	G	-	E	-	-	G	G	E	E	G	X
Caliche Liquors E	E												
Cane Sugar Liquors	E	E	E	G	E	E	E	-	E	E	E	E	G
Carbitol													
Carbolic Acid, Phenol	E	X	X	X	E	X	X	X	X	E	E	G	X
Carbon Bisulfide	E												
Carbon Dioxide, Dry	E	G	E	E	E	E	E	-	E	E	E	E	E
Carbon Dioxide, Wet	E	G	E	E	E	E	-	-	E	E	E	E	E
Carbon Disulfide	-	X	X	-	-	X	G	E	G	E	E	G	-
Carbon Monoxide, (Under 150°F) (Hot)	E	G	G	G	E	E	-	G	E	E	E	E	-
Carbon Tetrachloride, 5-10%	E	-	-	-	-	-	-	-	-	X	-	-	X
Carbon Tetrachloride, Pure	E	X	X	X	G	X	X	X	X	X	G	G	-
Carbonic Acid	E	E	E	E	E	E	X	-	X	E	E	G	-
Castor Oil	E	G	G	G	E	G	G	E	G	E	E	E	G
Caustic Soda, 20%	E	G	X	X	E	E	X	G	G	E	E	X	E
Caustic Soda, 50%	E	G	X	X	E	E	X	G	G	E	E	X	E
Cellosolve Acetate, Under 100°F	E	X	X	X	G	X	-	-	G	G	G	E	E
Cellosolve Butyl, Under 100°F	E	X	X	X	-	X	-	-	G	G	G	G	E
Cellosolve Union Carbide, Under 100°F	E	X	X	-	-	-	-	-	G	G	G	G	-
Cellugard, Cellugard 200		E	E	-	-	-	-	-	-	X	X	-	X

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## Chemical Resistance Tables

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### Rating Scale

**E** Excellent Resistance    **X** Not Recommended  
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Chemical Name	Hose								Fittings and Adapters				
	PTFE (Teflon®)	CR (Polychloroprene)	NBR (Nitrile)	Nitrile / PVC	CPE	CSM	Urethane	Nylon	Carbon Steel	Stainless Steel 304	Stainless Steel 316	Aluminum	Brass
Cellulube 1000, 220A, ST220, A60 (to 70°F)	E	X	X	X	-	X	-	-	E	E	E	E	X
Cellulube 90, 150, 220, 300, 551 (to 70°F)	E	X	X	X	-	X	-	-	E	E	E	E	X
Cellultherm 2505A	-	X	G	-	-	-	-	-	-	-	-	-	X
Chevron FR-10,13, 20, 8													
China Wood Oil (Tung)	E												
Chlor Acetone													
Chlordane (to 70°F)	E	X	X	X	-	X	-	E	-	-	-	X	X
Chlorinated Paraffin													
Chlorinated Solvents - Dry (to 212°F)	E												
Chlorinated Solvents - Wet (to 70°F)	E												
Chlorine Gas, (Under 212°F)		-	X	-	-	-	-	-	-	X	X	-	-
Chlorine Trifluoride (to 70°F)	E	X	X	-	-	-	-	-	E	E	E	E	-
Chlorine Water, 25% Chlorine		X	X	X	-	G	G	X	-	X	X	-	E
Chloroacetic Acid (Under 100°F)	E	X	X	X	-	G	-	X	X	X	X	X	E
Chlorobenzene	E	X	X	X	X	X	-	X	G	G	G	X	E
Chlorobromo Methane	E	X	X	X	-	X	-	-	G	G	G	X	G
Chloroform	E	X	X	X	X	X	-	X	G	E	E	X	X
Chlorosulphonic Acid	E												
Chlorotoluene	E	X	X	X	X	X	X	-	G	G	G	X	X
Chlorox, Bleach		G	G	-	E	G	-	E	X	G	E	X	X
Chromic Acid, 10%	E	X	X	X	E	G	X	X	X	X	G	X	X
Chromic Acid, 100%	E	-	-	-	-	-	X	-	X	X	X	X	X
Chromic Acid, 25%	E	X	X	X	E	G	X	X	X	X	G	X	X
Chromic Acid, 5%	E	X	X	-	-	-	-	X	X	G	E	X	X
Chromic Acid, 50%	E	X	X	X	E	G	X	X	X	X	X	X	X
Chromium Potassium Sulfate													
Cider													
Circo Light Process Oil		E	E	-	-	-	-	-	E	E	E	E	-
Citgo FR Fluids		-	X	-	-	-	G	-	-	-	-	-	-
Citgo FR15, 20,25													
Citgo Glycol FR-20XD		-	E	-	-	-	G	-	E	E	E	E	E
Citgo Pacemaker FR													
Citgo Pacemaker Glycol													
Citgo Sentry, (Under 100°F)		G	G	E	-	X	G	-	E	E	E	-	E
Citgo Tractor Hydraulic Fluid		-	E	-	-	-	G	-	E	E	E	-	E
Citric Acid, 15%		E	G	-	-	-	-	E	X	E	E	-	X

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Chemical Name	Hose								Fittings and Adapters				
	PTFE (Teflon®)	CR (Polychloroprene)	NBR (Nitrile)	Nitrile / PVC	CPE	CSM	Urethane	Nylon	Carbon Steel	Stainless Steel 304	Stainless Steel 316	Aluminum	Brass
Citric Acid, 15% Boiling		E	G	-	-	-	-	X	X	G	E	X	X
Citric Acid, 5%		-	G	-	-	-	-	E	X	E	E	E	X
Citric Acid, 5% @150°F		-	G	-	-	-	-	X	X	E	E	G	X
Citric Acid, Concentrated Boiling		E	X	E	-	E	G	X	X	X	G	X	X
Coal Gas		E	X	-	E	-	E	-	-	-	-	-	-
Coal Tars		X	G	X	G	G	-	-	E	E	E	E	E
Codor 1000, 1002, 1004, 1006, 1008		-	G	-	-	-	-	-	-	-	-	-	-
Coke Oven Gas (Under 100°F)	E	X	G	X	-	G	-	-	E	E	E	G	-
Conor 1008, 1010, 1012, 1014, 1016		-	G	-	-	-	-	-	-	-	-	-	-
Convelex 10		X	X	-	-	-	-	-	-	-	-	-	-
Copper Arsenate, Cupric Arsenate		-	-	-	-	G	-	-	E	E	E	-	-
Copper Chloride, 1%		E	E	-	-	-	-	X	-	G	G	-	-
Copper Chloride, 5%	E	E	E	-	-	-	-	X	-	X	G	-	-
Copper Chloride, Cupric Chloride	E	G	G	G	G	G	E	G	X	X	E	-	X
Copper Cyanide, Cupric Cyanide	E	G	G	G	-	G	-	X	E	E	E	-	X
Copper Nitrate, 1% & 5%	E	E	E	-	-	-	-	E	X	E	E	X	X
Copper Nitrate, Cupric Nitrate		E	E	E	E	E	-	-	X	E	E	-	X
Copper Sulfate, 10%	E	E	E	-	-	-	-	-	X	G	G	X	-
Copper Sulfate, 50%	E	E	E	-	-	-	-	-	-	G	G	-	-
Copper Sulfate, Cupric Sulfate		E	E	E	E	E	E	E	X	E	E	X	X
Corn Oil	E	X	G	G	G	X	X	-	E	E	E	E	E
Cosmolubric													
Cottonseed Oil	E	G	G	E	G	G	X	G	E	E	E	E	E
Creosol	E												
Creosote, Wood or Coal Tar (Under 100°F)	E	X	G	X	-	X	X	X	G	E	E	E	X
Cresol, Cresylic Acid (Under 100°F)	E	X	X	X	E	X	-	X	G	E	E	G	-
Crude Petroleum Oil	E	X	X	G	G	G	G	-	E	E	E	E	E
Cutting Oil	E	G	E	G	E	X	-	-	E	E	E	-	E
Cutting Oil, Sulfur Base	E	X	E	-	-	-	-	-	E	E	E	E	-
Cutting Oil, Water Soluble	E	X	E	-	-	-	-	-	E	E	E	E	-
Cyclohexane	E	X	G	-	E	X	E	E	G	G	G	G	-
Cyclohexanol	E												
Cyclohexanone	E	X	X	X	G	X	E	E	G	G	G	G	-
Cymene	E	X	X	X	G	X	-	-	E	E	E	E	E
Dasco FR 300													

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Chemical Name	Hose								Fittings and Adapters				
	PTFE (Teflon®)	CR (Polychloroprene)	NBR (Nitrile)	Nitrile / PVC	CPE	CSM	Urethane	Nylon	Carbon Steel	Stainless Steel 304	Stainless Steel 316	Aluminum	Brass
Dasco FR150, FR200, FR200B, FR310		-	E	-	-	-	-	E	-	-	-	-	-
Dasco IFR		-	E	-	-	-	-	E	E	-	-	E	E
DDT Preparation (to 70°F) (in Kerosene)	E												
Decalin	E	X	G	-	G	X	-	E	-	-	-	-	E
Dectol R&O Oil		X	E	-	-	-	G	-	-	-	-	-	-
Deionized Water													
Detergent/Water Solution	E												
Developing Fluids, Photo	E	G	-	-	E	G	-	-	-	E	E	-	-
Developing Solutions, Hypos	E	G	-	-	E	G	-	-	-	E	E	-	-
Dextron AFT													
Diacetone	E	X	X	X	E	X	-	E	E	E	E	E	E
Diammonium Phosphate (to 70°F)	E												
Dibenzyl Ether	E												
Dibutyl Ether	E												
Dibutyl Phthalate (Under 120°F)	E	X	X	X	G	X	G	-	E	E	E	E	E
Dichlorobenzene	E	X	X	X	X	X	X	-	E	E	E	X	E
Dichloroethylene	E												
Dieldrin													
Diesel Oil, Fuel ASTM #2	E	G	E	G	G	X	E	E	E	E	E	E	E
Diester Lubricant MIL-I-7809		X	G	-	-	-	-	-	E	E	E	E	-
Diester Synthetic Lubricants		X	G	-	-	-	-	-	E	E	E	E	-
Diethanolamine, 20%	E												
Diethyl Ether (Permeable)	E												
Diethyl Sebacate	E												
Diethylamine (Under 120°F)	E	G	G	-	G	X	-	E	E	E	E	E	E
Diethylene Glycol	E	E	E	E	E	E	E	E	E	E	E	E	E
Diisobutyl Ketone	E	X	X	X	G	X	-	E	E	E	E	E	E
Diisobutylene	E	X	G	-	E	X	-	-	G	E	E	G	E
Diisopropyl Ketone		X	X	X	G	X	-	E	E	E	E	E	E
Dimethyk Benzol													
Dimethyl Aniline	E	X	X	X	G	X	-	-	-	-	-	-	E
Dimethyl Formamide (Under 120°F)	-	X	X	X	-	-	-	-	E	E	E	E	-
Dimethyl Phthalate	E	X	X	X	E	X	-	-	-	-	G	-	E
Diocetyl Phthalate (DOP)	E	X	X	X	G	X	-	-	E	E	E	E	E
Diocetyl Sebacate		X	X	X	X	X	-	-	E	E	E	E	-
Diocetylphosphate													
Dipentene	E	X	X	-	G	-	-	-	E	E	E	E	E

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Dirco Oils		-	E	-	-	-	-	E	E	E	E	E	E
Dispersing Oil #10		X	X	-	-	-	-	-	E	E	E	E	-
Dow Corning, C200, DC510, DC550, DC560		-	E	-	-	-	-	E	-	E	E	E	E
Dow HD 50-4													
Dowtherm 209													
Dowtherm A	E	X	X	X	G	X	X	-	E	E	E	E	E
Dowtherm E		X	X	-	G	-	-	-	E	E	E	E	E
DP47, 200 Flow-DOW		-	E	-	-	-	-	E	E	E	E	E	E
Duro AW-16, 31													
Duro FR-HD		-	E	-	-	-	X	E	-	-	-	-	-
Duro Oils		-	E	-	-	-	-	E	E	E	E	E	E
Elco 28-EP, Lubricant		X	E	-	-	-	-	-	E	E	E	E	-
Enamels	- E	-	-	-	-	-	E	-	-	-	-	E	-
Energol HL 68		-	E	-	-	-	-	-	E	E	E	E	E
Energol HLPC 68		-	E	-	-	-	-	-	E	E	E	E	E
EP Hydraulic Oils, Chevron		-	E	-	-	-	-	-	E	E	E	E	E
Epichlorohydrin (Under 120°F)		X	X	-	-	-	-	-	E	G	E	E	-
Esam-6 Fluid		G	-	-	-	-	-	-	-	-	-	-	-
Ethanoic Acid	E												
Ethanol	E	E	E	-	E	-	X	E	-	-	-	-	-
Ethanolamine, Aminoethanol	E	G	G	-	E	X	X	E	E	E	E	E	E
Ethers (Under 120°F)	E	X	G	X	E	G	G	E	E	E	E	E	E
Ethyl Acetate	E	X	X	X	G	X	G	E	E	E	E	G	G
Ethyl Acetoacetate	E	X	X	X	E	X	X	-	E	E	E	E	E
Ethyl Acrylate	E	X	X	X	G	X	X	-	E	E	E	E	-
Ethyl Alcohol	E												
Ethyl Amine, Monoethylamine	E	X	X	X	E	X	X	-	G	E	E	G	E
Ethyl Benzene	E	X	X	X	G	X	E	-	E	E	E	E	E
Ethyl Bromide, Di	E	X	X	X	G	X	-	-	E	E	E	E	E
Ethyl Butyrate	E	X	X	X	-	-	-	-	-	E	E	E	-
Ethyl Cellulose	E	-	-	-	E	-	-	-	E	E	E	-	E
Ethyl Chloride	E	X	X	X	-	X	X	-	G	E	E	E	G
Ethyl Chloride, Dry	E	E	X	-	-	-	X	E	E	E	E	E	-
Ethyl Chloride, Wet	E	G	X	-	-	-	-	E	-	E	E	E	E
Ethyl Mercaptan	E	X	X	X	-	X	X	-	G	G	G	G	-
Ethyl Oxalate		X	X	-	E	-	E	-	-	-	-	-	-
Ethyl Pentachlorobenzene	E	-	X	-	X	-	E	-	-	-	-	-	-
Ethyl Silicate (to 70°F)	E	E	E	E	E	-	E	-	E	E	E	G	E
Ethylene Chlorohydrin, (Under 100°F)	E	X	X	X	-	-	X	X	E	E	G	X	-
Ethylene Diamine (Under 100°F)	E	G	G	G	E	X	X	-	E	E	E	X	E

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Ethylene Dichloride (Permeable)	E	X	X	-	G	-	E	E	-	E	E	X	-
Ethylene Glycol	E	E	E	E	E	E	E	E	G	E	E	E	E
Ethylene Glycol, Ethyl Ether	E												
Ethylene Oxide	E												
Exxon Univolt 60, N61													
Factovis 52		-	E	-	-	-	-	-	E	E	E	E	E
Fatty Acids	E	G	G	G	G	X	E	E	X	G	E	E	-
Ferric Chloride	E	-	-	-	E	G	-	-	X	X	X	X	X
Ferric Chloride, 1%		E	E	-	-	-	-	E	X	G	G	X	X
Ferric Chloride, 1% Boiling		-	G	-	-	-	-	E	X	X	X	X	X
Ferric Chloride, 10%		G	E	-	-	-	-	E	X	X	X	X	X
Ferric Chloride, 5% Agitated or Aerated		G	G	-	-	-	-	E	X	X	X	X	X
Ferric Chloride, 5% Still		G	E	-	-	-	-	E	X	X	X	X	X
Ferric Sulfate	E	G	G	G	E	G	-	E	X	G	G	X	X
Ferrous Sulfate, Saturated	E	E	-	-	-	-	-	E	-	G	G	X	-
Ferrous Chloride	E	E	E	-	E	G	-	E	X	X	G	X	X
Ferrous Nitrate	E	G	G	G	-	G	-	-	-	E	E	-	-
Ferrous Salt Solutions	E												
Ferrous Sulfate, 10%	E	E	E	-	-	-	-	E	X	G	G	X	-
Ferrous Sulfate, Copper Gas	E	G	G	G	E	G	-	-	X	E	E	E	G
Fire Resistant Hydraulic Fluid, Texaco		-	E	-	-	-	-	-	E	E	E	E	E
Fire Safe, 225, 211													
Fire Safe, 1090E, 1150, 1220, 1300E, 155													
Firtec 290, MF		-	-	-	-	-	-	-	-	-	-	-	-
Fixing Solution, Photo		G	-	-	-	G	-	-	-	E	E	-	-
Flactid Acid													
Fluoboric Acid	E	E	E	-	E	-	-	-	E	-	E	X	-
Fluoboric Acid, 65%	E	G	-	-	E	G	X	-	-	E	E	-	-
Fluorine Gas, Dry or Wet	G												
Fluosilic Acid		G	E	-	-	-	-	-	X	X	X	X	E
Fluosilic Acid, 50%		G	X	X	E	G	X	X	-	-	-	E	-
Formaldehyde	E	E	X	-	E	-	-	G	E	E	E	E	X
Formaldehyde, 37%		G	-G	-	E	G	-G	-	-	E	E	E	E
Formaldehyde, Hot		-	-	-	-	-	-	E	X	G	E	G	E
Formic Acid (Under 120°F)	E	E	X	E	E	G	X	G	X	G	E	E	G
Formic Acid, Dilute Hot		E	X	-	-	-	-	X	X	G	E	G	X
Freon 113 (Permeable)													
Freon 114 (Permeable)	G												
Freon 12 (Permeable)	G												
Freon 22 (Permeable)													

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## Chemical Resistance Tables

The following is a representative list of fluids, manufacturers and a general guideline for the use and compatibility of Continental hose and fittings.

### Rating Scale

- E** Excellent resistance
- G** Good Resistance
- X** Not Recommended
- Testing Recommended
- Blank** No Data

Chemical Name	Hose								Fittings and Adapters				
	PTFE (Teflon®)	CR (Polychloroprene)	NBR (Nitrile)	Nitrile /PVC	CPE	CSM	Urethane	Nylon	Carbon Steel	Stainless Steel 304	Stainless Steel 316	Aluminum	Brass
Freon 502 (Permeable)	Use Freon Hose Only								Use Freon Hose Only				
Fuel Oil	E	G	E	E	E	X	G	E	G	G	G	E	G
Fumaric Acid	E	G	X	-	-	-	X	-	E	E	E	-	-
Furan, Furfuran	E	X	X	X	E	-	-	-	E	E	E	E	E
Furfural	E												
Furfural Alcohol, Ant Oil	E	G	X	X	E	G	-	E	G	E	E	E	E
Fusel Oil, Grain Oil		X	X	-	-	-	-	-	-	-	-	-	-
Fyran Resin		X	X	-	-	-	-	-	-	-	E	-	-
Fyre Safe W/O													
Fyreguard 150, 200		-	E	-	-	-	-	-	E	E	E	E	E
Fyrquel 1000, 15R&O, 220R&O, 550R&O		X	X	-	-	-	-	-	E	-	-	E	-
Fyrquel A60, 90, 100, 150, 220, 300, 500		X	X	-	-	-	-	-	E	-	-	E	-
Gallic Acid	E	X	X	X	E	-	X	G	X	E	E	X	-
Gas Oil	E												
Gas, Natural	E	-	-	-	X	-	-	-	E	E	E	-	G
Gasohol (to 200°F)	E	G	X	X	-	X	-	-	G	E	E	E	E
Gasoline Unleaded, Under 50% Aromatics	E	X	X	X	-	X	X	-	G	E	E	E	E
Gasoline, Aviation	E	X	-	G	-	-	-	-	-	E	E	E	E
Gasoline, Meter		X	X	-	-	-	-	X	E	E	E	E	X
Gasoline, Premium	E	G	X	X	-	X	X	-	G	E	E	E	E
Gasoline, Sour	E	X	X	-	-	-	-	-	G	E	E	X	-
Gasoline, Standard	E	E	X	X	G	X	X	-	G	E	E	E	E
Gelatin	E	E	E	-	-	-	-	E	E	E	E	E	X
Glauber's Salt	-	G	X	-	-	-	-	-	E	E	E	-	-
Glucose	E	E	E	E	-	E	E	E	E	E	E	E	E
Glue (Under 120°F)	E	G	G	G	-	E	E	G	G	E	E	G	X
Glycerine, Glycol	E	E	E	E	E	E	E	E	G	E	E	E	G
Glycol FR Fluids	E	-	E	-	-	-	-	-	E	E	E	E	E
Glysantine													
Grease, Ester Base		-	-	-	-	-	-	E	E	E	E	E	E
Grease, Petroleum Base	E	G	E	G	-	G	E	E	E	E	E	E	E
Grease, Silicone Base		-	-	-	-	-	-	E	E	E	E	E	E
Green Sulfate Liquor, (Under 120°F)	E	G	G	E	G	-	-	-	E	E	E	-	-
Gulf FR Fluid G-200 (to 70°F)	E	-	E	-	-	-	X	-	E	E	E	E	E
Gulf FR Fluid P37, P40, P43, P45, P47 (to 70°F)	E	-	X	-	-	-	X	-	-	-	-	-	-
Gycols (Under 120°F)		E	E	E	E	E	E	E	G	E	E	E	E
H-515 (NATO)													
Halon													
Halowax Oil		X	X	X	-	X	-	-	-	-	-	-	-

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## Chemical Resistance Tables

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### Rating Scale

<b>E</b> Excellent resistance	<b>X</b> Not Recommended
<b>G</b> Good Resistance	<b>-</b> Testing Recommended
<b>Blank</b> No Data	

Chemical Name	Hose								Fittings and Adapters				
	PTFE (Teflon®)	CR (Polychloroprene)	NBR (Nitrile)	Nitrile / PVC	CPE	CSM	Urethane	Nylon	Carbon Steel	Stainless Steel 304	Stainless Steel 316	Aluminum	Brass
Helium	E												
Hephtachlor, In Petroleum		-	G	X	-	-	-	-	-	-	-	-	-
Heptane (Under 100°F)	E	G	E	G	E	X	E	E	E	E	E	E	E
Hexane (Under 120°F)	E	G	E	G	G	E	E	E	E	E	E	E	E
Hexene	E	G	G	-	E	-	-	-	E	E	E	-	E
HF 20													
High Viscosity Lubricant, H2		G	E	-	-	-	-	-	-	-	-	-	-
High Viscosity Lubricant, U4		G	E	-	-	-	-	-	-	-	-	-	-
Hilo MS #1		X	X	-	-	-	-	-	-	-	-	-	-
Houghto-Safe 1010, 1055, (Phos, Ester) (to 70°F)	E	X	X	X	E	X	-	-	E	E	E	E	E
Houghto-Safe 1115, 1120, 1130, (Phos, Ester) (to 70°F)	E	X	X	X	E	X	-	-	E	E	E	E	E
Houghto-Safe 271, 416, 520, 616, (Water/Glycol) (to 70°F)	E	G	E	E	-	-	G	-	E	E	E	E	E
Hul-E-Mul													
Hy-Chock Oil		-	G	-	-	-	-	E	E	E	E	-	-
Hydrafluid 760, Texaco & Houghton		-	E	-	-	-	-	E	E	E	E	E	-
Hydrafluid AZR&O, A, B, AA, C		-	E	-	-	-	-	E	E	E	E	-	-
Hydrasol A		-	E	-	-	-	-	E	E	E	E	-	-
Hydraulic Fluid HF-18, HF-20		-	E	-	-	-	G	E	E	E	E	E	E
Hydraulic Fluid HF-31		-	-	-	-	-	-	E	E	E	E	E	E
Hydraulic Fluid, Phosphate Ester Base		X	X	X	E		X	E	E	E	E	-	-
Hydraulic Fluid, Std Petroleum Oils		G	E	G	E	G	G	E	E	E	E	E	E
Hydraulic Fluid, Water Glycol Base		E	E	E	-	-	E	E	E	E	E	E	E
Hydraulic Oils, Petroleum	E	G	E	-	-	-	-	E	E	E	E	E	E
Hydraulic Oils, Synthetic	E	-	X	-	-	-	-	-	E	E	E	E	E
Hydraulic Safety Fluid 200&300 Texaco		-	E	-	-	-	E	-	E	E	E	E	E
Hydrazine	E	X	X	X	-	X	-	-	X	E	E	E	-
Hydrobromic Acid		X	X	-	-	-	-	-	X	X	X	X	X
Hydrobromic Acid, 37%		X	X	X	E	G	X	X	X	X	X	X	X
Hydrochloric Acid (Permeable)	E	G	X	-	-	-	-	X	X	X	X	X	X
Hydrochloric Acid, 15%	E	X	X	X	E	G	X	X	X	X	X	X	X
Hydrochloric Acid, Concentrated		X	X	-	-	-	-	X	X	X	X	X	X
Hydrochloric Acid, 3 Molar		G	X	-	-	-	-	X	-	-	-	-	X
Hydrochloric Acid, 37%	E	X	-	X	E	G	X	X	X	X	X	X	X
Hydrocyanic Acid, 20% (Under 100°F)		X	X	X	-	G	X	E	X	E	E	E	X

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## Chemical Resistance Tables

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### Rating Scale

**E** Excellent resistance      **X** Not Recommended  
**G** Good Resistance      **-** Testing Recommended      **Blank** No Data

Chemical Name	Hose								Fittings and Adapters				
	PTFE (Teflon®)	CR (Polychloroprene)	NBR (Nitrile)	Nitrile / PVC	CPE	CSM	Urethane	Nylon	Carbon Steel	Stainless Steel 304	Stainless Steel 316	Aluminum	Brass
Hydrocyanic Acid, 98%	E	-	-	-	-	-	-	-	-	-	-	-	-
Hydro-Drive Oil		-	E	-	-	-	G	-	-	-	-	-	-
Hydro-Drive Oil Houghton		-	E	-	-	-	G	-	-	-	-	-	-
Hydrofluoric Acid, 10%		X	X	X	E	E	X	X	X	X	X	X	X
Hydrofluoric Acid, 20% (Under 120°F)		X	X	X	E	G	X	X	X	X	X	X	X
Hydrofluoric Acid, 48% (Under 120°F)		X	X	X	E	G	X	X	X	X	X	X	X
Hydrofluoric Acid, 70% (Permeable)	E	-	X	X	-	G	X	X	X	X	X	X	X
Hydrofluoric Acid, Anhydrous		-	X	-	-	-	-	-	-	-	-	-	-
Hydrofluoric Acid, Concentrated	E	X	X	X	E	G	X	X	X	X	X	X	X
Hydrofluorosilic Acid	E												
Hydrogen (Permeable)	E	E	E	-	E	-	-	-	X	X	X	E	-
Hydrogen Chloride Gas (Permeable)	E	-	-	-	E	-	-	-	-	E	E	-	-
Hydrogen Cyanide Gas (Permeable to 300°F)	E	-	-	-	-	-	-	-	-	-	-	E	-
Hydrogen Fluoride (Under 100°F) (Permeable)	E	-	X	-	-	-	-	-	G	G	E	-	-
Hydrogen Peroxide													
Hydrogen Peroxide, 10%	E	X	E	X	E	G	X	X	X	G	E	E	X
Hydrogen Peroxide, 30%	E	X	G	X	E	G	X	X	X	G	E	E	X
Hydrogen Peroxide, 70%	E	X	X	X	E	-	X	X	X	G	E	E	X
Hydrogen Peroxide, 90%		X	X	-	-	-	-	-	X	G	E	-	X
Hydrogen Peroxide, Dilute		E	G	-	-	-	-	E	E	-	E	-	X
Hydrogen Sulfide, Aqueous Solution		G	X	-	-	-	-	-	X	-	-	X	-
Hydrogen Sulfide, Dry, Cold		E	E	-	-	-	-	E	-	-	-	G	X
Hydrogen Sulfide, Dry, Hot		G	X	-	-	-	-	E	E	X	G	G	X
Hydrogen Sulfide, Gas	E	-	-	-	-	-	-	-	-	-	-	-	-
Hydrogen Sulfide, Wet, Cold (Permeable)	E	E	X	-	-	-	-	E	G	G	G	G	X
Hydrogen Sulfide, Wet, Hot	E	G	X	-	-	-	-	E	G	G	E	-	X
Hydrogluosilic Acid													
Hydrolube, Water Glycol	E	G	E	-	-	-	X	-	X	-	E	-	-
Hydrolubric Oil, Houghton		-	G	-	-	-	G	E	-	-	-	-	-
Hydroquinone	E	X	-	-	-	X	-	-	-	E	E	G	-
Hydroxy Quinoline													
Hykil N°6 (33%), Water (67%)	E	-	G	-	-	-	-	-	E	-	-	-	-
Hypochlorous Acid, (Under 120°F)		X	X	X	-	G	-	E	G	G	G	X	-
Hypoid Grease (Parapoid 10-C)		-	E	-	-	-	-	-	-	-	-	-	-

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Chemical Name	Hose								Fittings and Adapters				
	PTFE (Teflon®)	CR (Polychloroprene)	NBR (Nitrile)	Nitrile / PVC	CPE	CSM	Urethane	Nylon	Carbon Steel	Stainless Steel 304	Stainless Steel 316	Aluminum	Brass
Imol, Imol S150, S220, S300, S500		-	E	-	-	-	G	E	E	E	E	E	-
Industron 53		-	E	-	-	-	-	-	-	-	-	-	-
Ink (Printers)	E	E	E	-	-	-	-	E	G	G	E	-	G
Ink Oil	E	-	G	-	-	-	-	-	E	E	E	-	E
Insulating Oil (Transformer)	E	G	E	G	-	X	-	-	E	E	E	-	E
Iodine (Under 100°F) (Gas- Permeable)	E	X	X	-	E	G	X	E	G	G	G	X	-
Iodine Pentafluoride		X	X	-	-	-	-	-	X	G	G	X	-
Iodine, in Alcohol	E	G	-	-	-	-	X	-	-	-	-	X	-
Irus Fluid 902		-	E	-	-	-	E	E	E	E	E	E	E
Irus Fluid 905		-	E	-	-	-	E	E	E	E	E	E	E
Isobutane		X	X	-	-	-	X	X	X	E	E	G	E
Isocyanates (at 70°F)													
Isooctane		E	E	G	G	E	G	-	E	E	E	G	E
Isooctyl Thiogluconate	E	-	-	-	-	-	-	-	-	-	-	-	-
Isopropyl Acetate	E	X	X	X	-	X	G	E	G	G	E	X	E
Isopropyl Alcohol (Isopropanol)	E	G	G	G	E	G	G	E	E	E	E	E	G
Isopropyl Ether	E												
Isopropylamine													
Jet Fuel JP-3 (Under 100°F)	E	G	E	G	-	X	G	E	G	E	E	G	E
Jet Fuel JP-4	E	X	E	G	-	X	-	E	G	E	E	G	E
Jet Fuel JP-5	E	X	E	X	-	X	-	E	G	E	E	G	E
Jet Fuel JP-6	E	X	E	X	-	X	-	E	G	E	E	G	E
Jet Fuel JP-x (at 70°F)	E	G	E	X	-	X	-	E	G	E	E	G	E
Kerosene	E	X	E	G	E	X	-	E	E	E	E	E	E
Ketchup	E	E	E	-	-	-	-	E	-	E	E	-	-
Ketones	E	X	X	X	-	X	X	E	E	E	E	G	E
Keystone #87Hx-Grease+A334		X	E	-	-	-	-	-	E	E	E	E	-
Lacquer Solvents	E	X	X	X	-	X	G	E	X	G	E	E	E
Lacquers	E	X	X	X	-	X	-	E	X	X	E	E	E
Lactic Acid	E	E	X	X	-	E	X	-	X	G	E	X	G
Lactic Acid 10% Boiling	E	X	X	-	-	-	-	-	X	G	E	X	X
Lactic Acid 5%	E	G	E	-	-	-	-	E	X	G	E	E	X
Lactic Acid 5% Boiling	E	X	X	-	-	-	-	-	X	G	E	G	X
Lactol		G	G	G	-	-	-	-	E	E	E	E	E
Lasso (Ag Spray)		-	-	-	-	-	-	E	-	E	E	-	-
Latex	E	E	E	-	-	-	-	E	E	E	E	E	E
Lead Acetate	E	X	X	-	E	X	-	-	G	G	G	X	E
Lead Arsenate (to 70°F)	E	G	G	-	-	G	E	-	E	E	E	-	-
Lead Nitrate (to 300°F)	E	G	G	-	-	-	-	-	E	G	G	-	-
Lead Sulfate (to 300°F)	E	E	E	-	E	E	E	-	E	E	E	-	-

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Chemical Name	Hose								Fittings and Adapters				
	PTFE (Teflon®)	CR (Polychloroprene)	NBR (Nitrile)	Nitrile / PVC	CPE	CSM	Urethane	Nylon	Carbon Steel	Stainless Steel 304	Stainless Steel 316	Aluminum	Brass
Lead Sulphamate (to 125°F)	E	G	G	-	-	G	-	-	-	-	-	-	-
Lead Tetramethyl	E	X	G	X	-	X	E	-	-	-	-	-	-
Lead, Tetraethyl (Under 100°F)	E	X	G	X	-	X	-	-	-	-	-	-	-
Lecithin	E	G	X	-	-	-	-	-	-	E	E	-	-
Ligroin (Petroleum Ether, Under 120°F)	E	X	E	-	-	X	-	-	G	E	E	X	-
Lime (Chlorinated Free Chlorine 20%)		-	E	-	E	-	E	-	-	-	G	-	-
Lime Bleach (Under 100°F)	-	X	G	X	-	X	-	-	X	G	E	-	-
Lime Sulphur		E	X	-	-	-	-	E	G	E	E	X	X
Lime Sulphur (Under 135°F)	E	E	X	X	-	G	-	E	G	E	E	X	X
Lindane (Ag Spray)		-	-	-	-	-	-	E	-	E	E	-	-
Lindol HF (to 200°F)	E												
Lindol, Hydraulic Fluid (to 200°F)	E	X	X	-	-	-	-	-	E	E	E	E	-
Linoleic Acid	E	X	G	X	-	-	-	-	X	G	E	E	-
Linseed Oil	E	X	E	-	-	-	-	E	E	E	E	G	G
Linseed Oil (Boiled)		G	G	E	E	E	E	-	G	E	E	E	G
LPG													
Lubricating Oil (Diester Under 135°F)		X	G	X	-	-	X	E	E	E	E	E	E
Lubricating Oil (Petroleum Base)	E	G	E	G	E	G	G	E	E	E	E	E	E
Lubricating Oil (SAE 10, 20, 30, 40, 50)	E	G	G	-	-	-	-	E	E	E	E	E	-
Machine Oil (Under 135°F)	E	E	E	G	-	G	G	-	E	E	E	E	E
Magnesium Carbonate	E	E	E	E	-	E	E	-	G	G	G	E	-
Magnesium Chloride	E	E	E	E	E	E	E	E	X	G	E	X	G
Magnesium Hydroxide	E	G	G	G	E	E	X	-	E	E	E	X	X
Magnesium Nitrate	E	G	G	G	-	E	-	-	G	G	G	X	E
Magnesium Sulfate	S	G	G	G	E	E	E	E	G	G	G	G	G
Malation (Ag Spray Dilute)		-	G	-	-	-	-	E	E	E	E	-	E
Maleic Acid	E	G	X	-	-	-	-	E	-	E	E	G	G
Manganese Salts (to 70°F)	E	-	E	E	-	E	-	-	-	-	-	-	-
Maximul (Penzoil Hydraulic Fluid)		G	E	G	-	-	-	-	E	-	E	-	-
Mercuric Chloride	E	E	G	G	E	E	G	X	X	G	G	X	X
Mercuric Cyanide	E	E	G	G	-	E	-	-	G	G	G	X	-
Mercurous Nitrate (Under 120°F)	E	E	G	G	-	E	-	-	E	E	E	X	-
Mercury	E	E	G	G	E	E	G	E	E	E	E	X	X
Mesityl Oxide	E	X	X	X	G	X	X	-	E	E	E	E	E
Methane (Gas or Liquid)	E	G	E	-	-	-	-	-	-	E	E	-	-

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## Chemical Resistance Tables

The following is a representative list of fluids, manufacturers and a general guideline for the use and compatibility of Continental hose and fittings.

### Rating Scale

<b>E</b> Excellent resistance	<b>X</b> Not Recommended
<b>G</b> Good Resistance	<b>-</b> Testing Recommended
	<b>Blank</b> No Data

Chemical Name	Hose								Fittings and Adapters				
	PTFE (Teflon®)	CR (Polychloroprene)	NBR (Nitrile)	Nitrile / PVC	CPE	CSM	Urethane	Nylon	Carbon Steel	Stainless Steel 304	Stainless Steel 316	Aluminum	Brass
Methanol													
Methoxychlor (Insecticide)		-	-	-	-	-	-	X	E	E	E	-	-
Methyl Acetate	E	X	X	X	E	X	-	-	E	E	E	E	E
Methyl Acrylate	E	X	X	X	-	X	-	-	E	E	E	E	E
Methyl Alcohol, Methanol	E												
Methyl Amine (25% Aqueous Solution)	E	G	X	-	-	-	-	-	E	E	E	E	-
Methyl Amine (60%)		G	G	-	-	-	-	G	E	E	E	E	G
Methyl Amine (99%)		X	X	-	-	-	-	-	E	E	E	E	X
Methyl Amyl Carbinol	E	-	-	-	E	-	-	-	E	E	E	-	-
Methyl Bromide	E	X	X	X	-	X	X	X	E	E	E	X	E
Methyl Butyl Ketone (MBK)	E	X	X	X	G	X	-	-	E	E	E	E	E
Methyl Cellulosolve (Under 100°F)	E	G	X	-	E	X	-	-	G	G	G	G	E
Methyl Chloride		X	X	X	X	X	-	E	G	E	E	X	E
Methyl Ethyl Ketone (MEK)	E	X	X	X	G	X	X	E	E	E	E	G	E
Methyl Formate	E	G	X	X	-	X	-	-	G	E	E	E	E
Methyl Isobutyl Ketone (MIBK, 100°F)	E	X	X	X	G	X	X	G	G	G	G	G	E
Methyl Isopropyl Ketone	E	X	X	X	G	X	X	-	G	E	E	E	E
Methyl Methacrylate	E	X	X	X	G	G	-	-	G	G	G	-	-
Methyl Ethyl Ketone					-								
Methyl Salicylate	E	G	G	G	-	-	-	-	E	E	E	E	E
Methyl Sulfate (Dinethyl, Under 100°F)	E	X	X	X	-	X	E	-	-	-	-	-	-
Methylene Chloride	E	X	X	X	X	X	-	G	G	G	G	X	E
Methylene Dichloride	E	X	X	X	-	-	-	E	E	E	E	X	E
Methylhalides													
MIL-F-7083													
MIL-H-5606													
MIL-H-83282													
MIL-L-2104 & 2104B													
MIL-L-7808													
MIL-O-6083													
Mine Guard FR													
Mineral Oil (Under 120°F)													
Mineral Spirit			E	G	-	X	-	-	E	E	E	G	E
MLO-8220 Hydro		E	G	-	-	-	-	-	E	E	E	E	-
MLO-7277 Hydro		X	X	-	-	-	-	-	E	E	E	E	-
MLO-7557		E	X	-	-	-	-	-	E	E	E	E	-
MLO-8515		E	G	-	-	-	-	E	E	E	E	E	-
Mobil DTE													
Mobil HFA													
Mobil Rarus 824, 826, 827													

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## Chemical Resistance Tables

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### Rating Scale

**E** Excellent resistance      **X** Not Recommended  
**G** Good Resistance      **-** Testing Recommended      **Blank** No Data

Chemical Name	Hose								Fittings and Adapters				
	PTFE (Teflon®)	CR (Polychloroprene)	NBR (Nitrile)	Nitrile / PVC	CPE	CSM	Urethane	Nylon	Carbon Steel	Stainless Steel 304	Stainless Steel 316	Aluminum	Brass
Mobil SHC 600 Series													
Mobil SHC 800 Series													
Mobil Vectra Oil													
Mobile Hydraulic Oils		-	E	-	-	-	G	-	E	E	E	E	-
Mobile Therm 603		-	E	-	-	-	-	-	E	E	E	E	E
Mobilfluid 423													
Mobilmet S122		-	E	-	-	-	G	-	-	-	-	-	-
Mobilrama 525													
Molasses (Under 120°F)	E	G	G	G	-	E	E	-	G	E	E	G	X
Monochlorobenzene (Permeable)	E	X	X	X	X	X	X	X	E	E	E	X	E
Monoethanolamine	E	X	G	-	E	X	-	-	E	E	E	G	E
Morpholine (Pure Additive)	E												
Motor Oils (Under 135°F)	E	G	E	G	E	G	G	E	E	E	E	E	E
Mould Oil		-	-	-	-	-	-	-	E	E	E	-	-
Muriatic Acid (Permeable)	E	X	X	X	E	G	X	X	X	X	X	X	X
Mustard	E	E	G	E	-	E	-	-	X	E	E	G	-
NaK													
Naphtenic Acid	E												
Naphtha (Low Aromatic Content)	E	X	G	X	E	X	-	E	G	E	E	E	E
Naphthalene	E	X	X	X	-	X	-	-	E	E	E	-	E
Naphthalene (Tar Camphor)	E	X	X	X	E	X	-	E	E	E	E	E	E
Natural Gas	E												
Neon Gas	E												
N-Hexaldehyde	E	G	X	G	-	-	-	-	E	E	E	E	E
Nickel Acetate	E	G	G	-	-	-	-	-	E	G	G	E	E
Nickel Chloride	E	G	G	G	E	G	-	E	X	G	G	X	X
Nickel Nitrate	E	G	G	G	E	G	-	E	G	G	G	X	-
Nickel Plating Solution		-	G	-	-	G	X	-	-	E	E	-	-
Nickel Salts	E	G	-	E	-	-	-	-	-	-	-	-	-
Nickel Sulfate	E												
Nicotine Salts	E	-	-	-	-	-	E	-	E	X	G	-	-
Nitric Acid	E	X	X	-	-	-	-	-	X	E	E	-	X
Nitric Acid & Hydrochloric Acid		-	X	-	-	-	-	-	X	X	X	X	-
Nitric Acid, 20%	E	X	X	X	E	G	X	X	X	G	G	X	X
Nitric Acid, 3M		X	X	-	-	-	-	-	X	E	E	-	X
Nitric Acid, 5% to 10%	E	X	X	X	E	G	X	X	X	G	G	E	X
Nitric Acid, 50% (Boiling)		X	X	X	X	X	X	X	X	G	G	X	X
Nitric Acid, 65% (Boiling)		X	X	X	X	X	X	X	X	G	G	X	X
Nitric Acid, Concentrated (Boiling)		X	X	-	-	-	-	X	X	G	G	X	X

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## Chemical Resistance Tables

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### Rating Scale

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Chemical Name	Hose								Fittings and Adapters				
	PTFE (Teflon®)	CR (Polychloroprene)	NBR (Nitrile)	Nitrile / PVC	CPE	CSM	Urethane	Nylon	Carbon Steel	Stainless Steel 304	Stainless Steel 316	Aluminum	Brass
Nitric Acid, Inhibited RED Fuming (IRFNA)		X	X	-	-	-	-	-	X	E	E	E	X
Nitric Acid, Red Fuming (RNFA)	E	X	X	X	-	X	X	X	X	G	G	G	X
Nitrobenzene (Under 100°F)	E	X	X	X	G	X	X	-	G	G	G	G	E
Nitroethane	E	X	X	X	E	G	-	-	E	E	E	E	E
Nitrogen	E	E	E	G	E	E	E	E	E	E	E	E	E
Nitrogen Fertilizer Solution													
Nitrogen Oxide up to 50% (Under 100°F)		E	E	G	E	E	-	E	E	E	E	-	X
Nitromethane (Permeable)	E	X	X	X	-	-	-	E	E	E	E	E	E
Nitropropane		X	X	X	-	-	-	E	E	E	E	E	E
Nitrous Oxide (Gas)	E												
N-Octane		X	G	-	E	X	-	-	E	E	E	-	E
Nuto H													
Nyvac 20 (WG), 30 (WG)		-	E	-	-	-	-	-	E	E	E	E	E
Nyvac FR Fluid		-	E	-	-	-	-	-	E	E	E	E	E
Nyvac FR200 Fluid		-	E	-	-	-	-	-	E	E	E	E	E
O-148 (NATO)													
Octyl Alcohol	E												
Oil (SAE, Under 100°F)	E	E	E	E	E	G	E	E	E	E	E	E	E
Oil Synthetic Blends													
Oils Crude	E	X	G	-	-	-	-	-	-	E	E	-	-
Oleic Acid (Under 120°F)	E	G	G	G	E	G	E	E	G	G	E	E	G
Oleum 25%													
Oleum Spirits (to 70°F)	E												
Olive Oil	E	X	G	G	G	X	-	-	G	E	E	E	G
Orthodichlorobenzene													
OS 45 Type III (OS45)	E	E	G	-	-	-	-	-	-	-	-	-	-
OS 45 Type IV (OS45-1)	E	E	G	-	-	-	-	-	-	-	-	-	-
OS 70		E	G	-	-	-	-	-	-	-	-	-	-
Oxalic Acid (5%, Hot and Cold)		G	G	-	-	-	-	G	X	G	E	E	X
Oxalic Acid	E	X	X	X	E	G	X	X	X	G	E	G	X
Oxalic Acid (10% Boiling)		X	X	-	-	-	-	-	X	X	X	X	X
Oxalic Acid (10%)		G	G	-	-	-	-	G	X	G	E	E	X
Oxygen (200°-400°F)		X	X	-	-	-	-	-	-	-	-	-	-
Oxygen Cold		E	G	-	E	-	-	E	G	E	E	E	E
Oxygen Gaseous	E	-	-	-	-	-	-	-	-	-	-	E	-
Ozone (Dry)	E	G	X	G	E	G	E	G	E	E	E	E	E
Ozone (Wet)	E	-	X	-	-	-	-	-	X	G	E	G	-
Pacemaker Types 150T, 300T, 500T (Citgo)		-	E	-	-	-	-	-	-	-	-	-	-
Paint	E	X	-	-	-	X	X	G	-	E	E	E	E

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## Chemical Resistance Tables

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### Rating Scale

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Chemical Name	Hose								Fittings and Adapters				
	PTFE (Teflon®)	CR (Polychloroprene)	NBR (Nitrile)	Nitrile / PVC	CPE	CSM	Urethane	Nylon	Carbon Steel	Stainless Steel 304	Stainless Steel 316	Aluminum	Brass
Paint Solvents (Oil Base)		X	X	-	-	X	X	G	-	E	E	E	E
Paint Thinner, Duco	E	G	E	-	-	-	-	E	G	G	E	G	X
Paints (Oil Base)	E	-	E	-	-	E	-	E	-	-	-	-	-
Palm Oil	E	G	E	G	-	G	-	-	E	E	E	E	E
Palmitic Acid	E	G	G	G	E	X	E	E	G	G	E	E	X
Paradichlorobenzene													
Paraffin (Petroleum)		G	E	G	E	X	-	E	G	E	E	E	E
Paraformaldehyde	E	G	G	G	-	G	G	-	E	E	E	E	-
Peanut Oil (Under 100°F)	E	G	E	G	-	-	-	-	E	E	E	E	E
Pentane (Gas or Liquid )	E												
Pentasol		G	G	G	-	G	-	-	E	E	E	E	E
Perchloric Acid	E	X	X	-	-	G	X	X	X	G	E	X	-
Perchloroethylene (Tetrachloroethylene)	E	X	X	X	G	X	-	G	E	E	E	X	X
Petroleum Oil (Above 250°F)	E	X	X	-	-	-	-	-	-	-	-	-	-
Petroleum Oil (Crude)	E	G	E	-	-	-	-	-	-	-	-	-	-
Petroleum Oil (Under 250°F)		G	E	-	-	-	-	-	-	-	-	-	-
Petroleum Oils (Refined)		G	E	G	-	G	G	E	E	E	E	E	E
Petroleum Oils (Sour)	E	G	G	-	-	X	G	-	G	E	E	E	X
Petroleum Oils (Under 100°F)		G	E	G	-	G	G	-	E	E	E	E	E
Phenol (7030 Water)		X	X	-	-	-	-	-	-	E	E	E	-
Phenol (85/15 Water)		X	X	-	-	-	-	-	-	E	E	E	-
Phenol (Carbolic Acid)	E	X	X	X	E	X	X	X	G	E	E	E	X
Phenylamine													
Phorone (Diisopropylidene Acetone)	E	X	X	-	-	X	X	-	E	E	E	-	E
Phosphate Esters (3 Molar)		X	X	-	G	G	X	G	-	-	-	-	-
Phosphate Esters (Concentrated)	E	X	X	-	X	X	X	G	-	-	-	-	-
Phosphate Esters (Dilute)	E	X	X	-	E	E	X	G	-	-	-	-	-
Phosphoric Acid	E	G	G	-	-	-	-	-	-	-	G	-	-
Phosphoric Acid (1%)		G	-	-	-	-	-	-	-	E	E	-	X
Phosphoric Acid (10% Hot)		G	X	-	-	-	-	-	X	-	E	X	X
Phosphoric Acid (10%)		G	X	-	-	-	-	-	X	-	E	X	X
Phosphoric Acid (3 Molar)		X	X	-	-	-	-	-	-	-	-	-	-
Phosphoric Acid (5%)		G	X	-	-	-	-	-	-	E	E	-	X
Phosphoric Acid (50% Hot)		G	X	-	-	-	-	-	X	X	G	X	X
Phosphoric Acid (50%)		G	G	G	E	E	X	X	X	G	E	X	G
Phosphoric Acid (85% Hot)		G	X	-	-	-	-	-	X	X	X	X	X
Phosphoric Acid (85%)		G	X	-	E	E	X	X	X	G	G	X	X
Phosphoric Acid (Aerated)		-	-	-	-	-	-	-	X	-	G	-	-

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## Chemical Resistance Tables

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Chemical Name	Hose								Fittings and Adapters				
	PTFE (Teflon®)	CR (Polychloroprene)	NBR (Nitrile)	Nitrile / PVC	CPE	CSM	Urethane	Nylon	Carbon Steel	Stainless Steel 304	Stainless Steel 316	Aluminum	Brass
Phosphoric Acid (Concentrated)	E	X	X	-	-	-	-	-	-	-	-	-	-
Phosphoric Acid (Air Free)		-	-	-	-	-	-	-	X	-	-	X	-
Phosphorous Trichloride	E												
Photographic, Developers	E	E	E	-	-	-	-	-	X	E	E	-	-
Photographic, Emulsions	E	-	-	-	-	-	-	-	-	-	-	-	-
Photographic, Fixing Solutions	E	G	-	-	-	G	-	-	-	E	E	-	-
Phthalic Acid		-	-	-	-	-	-	-	G	G	E	G	-
Picric Acid (Water Solution 100°F)	E	G	G	G	-	G	G	X	X	E	E	X	X
Picric Acid Molten													
Pine Oil	E	X	G	-	G	X	-	E	E	E	E	E	-
Pinene	E	X	G	-	G	-	-	-	E	E	E	E	E
Piperazine Hydrochloride Solution (34%)		-	G	-	-	-	-	-	-	-	-	-	-
Pitch		G	E	-	-	G	G	E	-	-	-	-	-
Plating Solutions (Chrome)	E	X	X	-	-	-	X	X	-	X	X	-	-
Plating Solutions (Other)	E	-	E	-	-	-	-	-	-	-	-	-	-
Polyester Resin		-	-	-	-	-	-	G	-	-	-	-	-
Polyol Ester													
Polyurethane Foam (Under 125°F)		-	-	-	-	-	-	-	-	-	-	-	-
Potassium Acetate	E	G	G	-	E	G	X	-	G	E	E	X	-
Potassium Bicarbonate	E	E	E	-	-	E	-	E	E	G	G	E	-
Potassium Bisulfite	E	-	E	-	-	-	-	E	-	-	-	-	-
Potassium Bromate	E	-	-	-	-	-	-	-	-	-	-	-	-
Potassium Bromide	E	E	E	-	-	E	G	E	X	X	G	X	-
Potassium Carbonate (Potash)	E	E	E	E	E	E	G	E	G	E	E	X	X
Potassium Chlorate	E	E	E	-	-	-	G	E	G	G	G	G	-
Potassium Chloride (1% to 5%)	E	E	E	-	E	-	G	E	E	G	G	X	X
Potassium Chloride (Boiling)		-	-	-	-	-	-	-	-	G	G	-	X
Potassium Cyanide	E	E	E	-	E	-	-	E	G	G	G	X	X
Potassium Dichromate	E	E	E	-	E	-	-	G	E	G	G	G	-
Potassium Ferrocyanide	E	-	-	-	-	-	-	-	G	E	E	G	-
Potassium Fluoride	E	-	-	-	-	-	-	-	-	-	-	-	-
Potassium Hydroxide	E	G	G	-	-	-	-	-	E	E	E	-	-
Potassium Hydroxide (27% Boiling)		-	-	-	-	-	-	-	G	G	E	X	X
Potassium Hydroxide (5%)		E	E	-	-	-	-	E	G	G	G	X	X
Potassium Hydroxide (50% Boiling)		-	-	-	-	-	-	-	G	G	G	X	X

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Chemical Name	Hose								Fittings and Adapters				
	PTFE (Teflon®)	CR (Polychloroprene)	NBR (Nitrile)	Nitrile / PVC	CPE	CSM	Urethane	Nylon	Carbon Steel	Stainless Steel 304	Stainless Steel 316	Aluminum	Brass
Potassium Hydroxide (70% Hot)		-	-	-	-	-	-	-	X	-	-	X	X
Potassium Hydroxide (70%)		-	E	-	-	-	-	-	-	-	-	X	X
Potassium Hydroxide (30% Caustic Potash)		-	-	-	E	-	-	-	-	-	-	-	-
Potassium Iodide		E	E	-	-	E	-	E	E	G	G	-	-
Potassium Nitrate	E	E	E	-	E	-	E	E	E	E	G	G	G
Potassium Nitrate (1% to 5%)		E	E	-	-	-	-	-	E	E	E	E	G
Potassium Permanganate	E	E	G	-	-	-	-	G	E	G	G	G	-
Potassium Permanganate (5%)		E	E	-	-	-	-	E	E	E	E	E	-
Potassium Persulfate	E	-	-	-	-	-	-	-	-	-	-	-	-
Potassium Phosphate	E	E	-	-	-	E	-	-	X	G	G	X	-
Potassium Sulfate	E	E	E	-	E	-	E	E	E	G	G	E	-
Potassium Sulfate 1% & 5%		E	E	-	-	-	-	E	E	E	E	E	X
Potassium Sulfide		E	E	-	-	-	-	-	G	G	G	-	-
Potassium Sulfite (to 300°F)	E	E	E	-	E	-	-	-	E	E	E	E	-
Potassium Thiosulfate	E	E	-	-	-	E	-	-	-	-	-	-	-
Primatol A, S, P (Ag Spray)		-	-	-	-	-	-	-	-	-	-	-	-
PRL-High Temp Hydraulic Oil		G	E	-	-	-	-	-	E	E	E	E	-
Propane Gas	E	X	X	-	-	-	X	X	X	E	E	E	-
Propionic Acid	E	X	X	-	-	-	-	-	E	-	G	G	-
Propyl Acetate	E	X	X	-	G	-	-	-	E	-	-	-	-
Propylene (Liquid or Gas, Ambient)	E	X	X	-	E	-	-	G	E	E	E	E	-
Propylene Dichloride	E	-	-	-	-	-	-	-	E	G	E	X	-
Propylene Glycol		E	X	-	E	E	E	G	E	G	G	E	-
Propylene Oxide (Permeable)	E	X	X	-	-	-	-	-	G	E	E	G	-
Purina Insecticide		X	X	-	-	-	-	G	E	E	E	E	G
Puropale RX Oils		-	E	-	-	-	G	E	E	E	E	E	E
Pydraulic		X	X	-	-	-	-	-	-	-	-	-	-
Pydraulic 10E,29E-LT,30E,60,65E,115E		X	X	-	G	-	-	-	E	E	E	E	E
Pydraulic 135 (to 70°F)	E	-	X	-	G	-	-	G	E	E	E	-	-
Pydraulic 150		X	X	X	G	X	G	G	E	E	E	E	E
Pydraulic 280 (at 400°F)	G	X	X	X	G	X	G	G	E	E	E	-	-
Pydraulic 312 (to 70°F)	E	X	X	X	G	-	G	E	E	E	E	-	-
Pydraulic 50E		-	-	-	G	-	G	E	E	E	E	-	-
Pydraulic 540 (to 70°F)	E	X	X	X	G	X	X	X	E	E	E	-	-
Pydraulic 625		X	X	X	G	X	G	G	E	E	E	-	-
Pydraulic A-200		X	X	X	G	X	X	G	E	E	E	-	-
Pydraulic F-9		X	X	X	G	X	G	E	E	E	E	-	-
Pyranol, Transformer Oil (to 70°F)	E	G	E	-	-	-	-	-	E	E	E	E	-

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### Rating Scale

**E** Excellent resistance      **X** Not Recommended  
**G** Good Resistance      **-** Testing Recommended      **Blank** No Data

Chemical Name	Hose								Fittings and Adapters					
	PTFE (Teflon®)	CR (Polychloroprene)	NBR (Nitrile)	Nitrile / PVC	CPE	CSM	Urethane	Nylon	Carbon Steel	Stainless Steel 304	Stainless Steel 316	Aluminum	Brass	
Pyridine	E	X	X	-	-	X	E	-	E	E	E	E	E	
Pyrogard 160, 230, 630		-	-	-	-	-	-	-	E	E	E	-	-	
Pyrogard 51, 53, 55		-	X	-	-	-	-	-	E	E	E	-	-	
Pyrogard C, D	E	-	E	-	-	-	G	E	E	E	E	E	E	
Pyrolube		E	X	-	-	-	-	-	-	-	-	-	-	
Quench Oil	E	G	G	-	-	-	-	-	-	E	E	E	-	
Quintolubric 700														
Quintolubric 822		X	E	-	-	-	-	-	E	E	E	E	E	
Quintolubric 957, 958														
Ramrod (Ag Spray)		-	-	-	-	-	-	E	E	E	E	E	E	
Rando Oils		-	E	-	-	-	G	E	E	E	E	E	E	
Rape Seed Oil		G	X	-	-	X	-	G	E	E	E	E	E	
Red Line 100 Oil	E	G	E	-	-	-	-	-	-	-	-	-	-	
Red Oil (Comm. Oleic Acid, MIL-H-5606)	E	G	G	G	E	G	-	E	G	G	E	E	G	
Refined Wax (Petroleum)		G	E	G	-	-	G	E	E	E	E	-	E	
Refrigerant Freon 113 (see Freon)			Use Freon Hose Only							Use Freon Hose Only				
Refrigerant Freon 114 (see Freon)			Use Freon Hose Only							Use Freon Hose Only				
Refrigerant Freon 12 (see Freon)			Use Freon Hose Only							Use Freon Hose Only				
Refrigerant Freon 22 (see Freon)			Use Freon Hose Only							Use Freon Hose Only				
Refrigerant Freon 502 (see Freon)			Use Freon Hose Only							Use Freon Hose Only				
Refrigerant HFC 134A (see Freon)			Use Freon Hose Only							Use Freon Hose Only				
Regal Oils R&O		-	E	-	-	-	G	E	-	-	-	-	-	
Resorcinol														
Richfield Weed Killer		X	G	-	-	X	-	-	-	-	-	-	-	
Round Up		G	G	-	-	-	-	E	G	E	E	E	E	
Rubilene Oils		-	E	-	-	-	G	E	-	-	-	-	-	
SAE N° 10 Oil	E													
Safco-Safe T10, T20														
Safetytex 215		-	X	-	-	-	-	-	-	-	-	-	-	
Salicylic Acid (to 400°F)	E	E	X	-	-	-	-	E	E	E	E	G	-	
Salt Water (see Water)	E	G	G	G	-	G	E	E	G	E	E	X	G	
Santosafe 300		X	X	-	-	-	-	-	E	E	E	E	-	
Santosafe W-G15, W-G20, W-G30		-	E	-	-	-	G	E	E	E	E	E	E	
SCC 7204 (Stauffer)		-	-	-	-	-	-	-	-	-	-	-	-	
Sevin		-	-	-	-	-	-	E	-	-	-	-	-	
Sewage	E	G	G	G	E	G	-	E	X	E	E	G	G	
Shell IRUS 902	E													

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### Rating Scale

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Chemical Name	Hose								Fittings and Adapters				
	PTFE (Teflon®)	CR (Polychloroprene)	NBR (Nitrile)	Nitrile / PVC	CPE	CSM	Urethane	Nylon	Carbon Steel	Stainless Steel 304	Stainless Steel 316	Aluminum	Brass
Shell IRUS 905	E												
Shell Pella-A													
Shell Tellus													
Shellac (to 400°F)		G	E	-	-	-	-	E	E	E	E	E	-
Shellac (Bleached) (to 400°F)	E	G	E	-	-	-	-	E	E	E	E	E	G
Shellac (Orange) (to 400°F)	E	G	E	-	-	-	-	E	E	E	E	E	G
Silicate Ester (to 400°F)	E												
Silicone Greases	E	G	G	G	-	G	-	E	E	E	E	E	E
Silicone Oils	E	G	G	G	-	G	-	E	E	E	E	E	E
Silver Cyanide	E	E	-	-	-	-	-	-	E	E	E	X	-
Silver Nitrate	E	E	E	E	E	E	-	E	G	E	E	E	G
Skelly, Solvent B, C, E		X	E	-	-	-	-	-	-	-	-	-	-
Skydrol 500A & 7000 (to 200°F)	E	X	X	X	G	X	-	E	E	E	E	E	-
Soap oil	E	X	X	-	-	X	-	-	E	E	E	-	-
Soap Solutions	E	G	E	G	E	E	E	E	E	E	E	E	E
Soda Ash (Sodium Carbonate)	E	E	E	E	E	E	E	E	E	E	E	X	G
Soda Water	E	-	-	-	-	-	E	E	-	-	-	-	-
Sodium Dichromate		G	E	-	E	G	E	E	-	-	-	-	-
Sodium Hypochlorite 100% (to 200°F)	E	E	X	-	-	-	-	-	X	X	X	X	-
Sodium Hypochlorite 20% (to 400°F)	E	X	X	X	E	E	X	E	X	X	G	X	X
Sodium Hypochlorite 5%	E	-	X	X	E	E	X	E	X	X	G	X	X
Sodium Hyposulfate	E	X	-	-	-	-	-	-	X	E	E	X	-
Sodium Metaphosphate	E	G	G	G	E	G	-	E	X	E	E	E	X
Sodium Nitrate	E	X	X	-	E	G	E	E	E	G	G	G	G
Sodium Perborate	E	X	X	-	-	X	-	G	X	E	E	E	X
Sodium Peroxide (Sodium Dioxide)	E	E	G	E	G	E	-	X	X	E	E	E	X
Sodium Phosphate	E	X	E	-	E	-	E	E	G	E	E	X	X
Sodium Phosphate (Dibasic)	E	G	E	-	-	-	-	-	-	-	-	-	-
Sodium Phosphate (Mono)	E	E	E	-	-	-	-	-	-	-	-	-	-
Sodium Phosphate (Tribasic)		G	E	-	-	-	-	-	G	G	G	-	-
Sodium Silicate		E	E	-	E	E	G	E	G	G	G	X	X
Sodium Silicate (Hot)	E	E	E	-	-	-	-	-	G	G	G	X	X
Sodium Sulfate	E	E	E	-	E	E	E	E	G	E	E	-	G
Sodium Sulfide	E	E	E	-	E	E	E	E	X	X	G	X	X
Sodium Sulfide Saturated 100%	E	E	E	-	-	-	-	E	G	G	E	X	X
Sodium Sulfite		G	G	G	E	G	E	G	E	E	E	-	X
Sodium Sulfite 10% at 150°F		E	E	-	-	-	-	-	G	G	G	G	-

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Chemical Name	Hose								Fittings and Adapters				
	PTFE (Teflon®)	CR (Polychloroprene)	NBR (Nitrile)	Nitrile / PVC	CPE	CSM	Urethane	Nylon	Carbon Steel	Stainless Steel 304	Stainless Steel 316	Aluminum	Brass
Sodium Sulfite 5%		E	E	-	-	-	-	-	E	E	E	E	-
Sodium Thiosulfate (HPO, Antichlor)	E	E	E	E	E	E	E	E	X	E	E	G	X
Sodium Tripolyphosphate (STPP) (to 70°F)	E	-	-	-	-	-	-	-	-	E	E	X	X
Sodium Acetate	E	X	X	X	E	X	G	E	E	E	E	E	E
Sodium Benzoate	E	-	-	-	-	-	E	-	-	-	-	-	-
Sodium Bicarbonate	E	E	E	E	E	E	E	E	G	E	E	G	G
Sodium Bisulfate (Niter Cake)		E	E	E	E	E	E	E	X	G	E	X	X
Sodium Bisulfite	E	E	E	E	E	E	E	E	G	E	E	G	-
Sodium Borate	E	E	E	E	E	E	E	E	E	E	E	-	-
Sodium Carbonate	E	E	E	E	E	E	E	E	G	G	G	X	G
Sodium Chlorate	E	G	E	-	-	E	E	E	G	G	G	X	-
Sodium Chloride	E	E	E	E	E	E	E	E	G	G	E	X	X
Sodium Chloride - 2%	E	E	E	-	-	-	-	E	G	G	E	X	X
Sodium Chloride - 5%	E	E	E	-	-	-	-	E	-	G	E	X	X
Sodium Chloride - 5% at 150°F	E	E	E	-	-	-	-	E	-	G	E	-	X
Sodium Chloride Saturated	E	E	E	-	-	-	-	E	-	E	E	X	-
Sodium Chloride Saturated (Boiling)	E	-	-	-	-	-	-	-	-	G	E	X	-
Sodium Chloride Slurry		-	-	-	-	-	-	-	-	-	-	-	-
Sodium Cyanide	E	E	E	E	E	E	E	E	G	E	E	X	X
Sodium Ferricyanide	E	-	-	-	-	-	-	-	G	G	G	-	-
Sodium Ferrocyanide	E	-	-	-	-	-	-	-	-	-	-	-	-
Sodium Fluoride	E	-	E	-	-	-	-	-	G	G	G	-	-
Sodium Fluoride (5%)	E	-	E	-	-	-	-	E	G	G	G	-	-
Sodium Fluoride (70%)	E	-	-	-	-	-	-	-	-	-	G	-	-
Sodium Hydrosulfide - 100% (to 70°F)	E	E	X	-	-	-	-	-	-	-	-	-	-
Sodium Hydrosulfide - 45% (to 500°F)	E	E	X	-	-	-	-	-	-	-	-	-	-
Sodium Hydrosulfite	E	-	-	-	-	-	-	-	-	-	-	-	-
Sodium Hydroxide	E	G	G	-	-	-	-	-	G	-	-	-	X
Sodium Hydroxide (10%)	E	-	-	-	E	-	-	-	-	-	-	-	-
Sodium Hydroxide (20% Cold)	E	E	G	-	-	-	-	E	E	E	E	X	X
Sodium Hydroxide (20% Hot)	E	E	X	-	-	-	-	-	G	E	E	X	X
Sodium Hydroxide (3M)		G	G	-	-	-	-	-	-	-	-	-	X
Sodium Hydroxide (40%)	E	E	G	G	E	E	-	G	G	E	E	X	X
Sodium Hydroxide (50% Cold)	E	G	X	X	E	E	-	G	G	G	G	X	X
Sodium Hydroxide (50% Hot)	E	-	-	-	E	G	-	X	X	G	G	X	X
Sodium Hydroxide (60%)	E	G	X	X	E	G	-	X	X	G	G	X	X

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Sodium Hydroxide (70% Cold)	E	E	G	-	-	-	-	-	-	-	G	X	X
Sodium Hydroxide (70% Hot)	E	-	-	-	-	-	-	-	-	-	-	-	-
Sodium Hydroxide (80% Hot)	E	E	X	-	-	-	-	-	X	X	X	X	X
Sole													
Solnus Oils		-	E	-	-	-	G	E	E	E	E	E	E
Solvac 1535 G		-	-	-	G	-	-	E	-	-	-	-	-
Sour Crude Oil		-	-	-	-	-	-	-	-	-	-	-	-
Soybean Oil	E	G	G	G	-	G	-	E	E	E	E	E	-
Spent Acid		-	-	-	-	G	-	-	-	E	E	-	-
SR-10 Fuel		X	G	-	-	-	-	-	-	-	-	-	-
SR-6 Fuel		X	E	-	-	-	-	-	-	-	-	-	-
SRF Fluid B (Shell)		-	X	-	-	-	-	-	-	-	-	-	-
SRF Fluid C (Shell)		-	X	-	-	-	-	-	-	-	-	-	-
Stannic Chloride	E	X	G	G	E	X	-	X	X	X	X	X	X
Stannic Chloride (50%)	E	X	E	-	-	-	-	-	X	X	X	X	-
Stannous Chloride (Under 150°F)	E	E	E	-	E	E	-	X	-	X	G	X	-
Stannous Chloride, 15%	E	E	E	-	-	-	-	-	X	X	-	X	-
Stanoil N° 15, 18, 25, 31, 35, 51		-	E	-	-	-	G	E	E	E	E	E	E
Starch	E	G	G	-	-	E	E	E	X	E	E	E	-
Staysol FR		-	E	-	-	-	G	E	E	E	E	E	E
Steam-Water up to 250°F	E												
Stearic Acid	E	G	G	G	E	G	E	E	X	G	E	X	X
Stearin		-	-	-	-	-	E	G	-	-	-	-	-
Stoddard Solvent	E	G	G	X	E	-	X	E	G	E	E	E	E
Styrene (Monomer)	E	-	X	-	G	-	-	G	G	X	G	X	G
Styrene (Vinyl Benzene)		X	X	-	-	-	-	E	E	E	E	E	E
Sucrose Solutions	E	E	E	E	-	E	-	-	E	E	E	-	-
Sulfamic Acid (10% Under 170°F)	E	-	-	-	E	G	-	-	-	-	-	-	-
Sulfate Black Liquor	E	E	E	-	-	-	-	E	G	G	G	X	-
Sulfate Green Liquor	E	E	E	-	-	-	-	E	G	G	G	X	-
Sulfur	E	-	-	-	-	-	-	-	-	-	-	-	-
Sulfur (Molten)		X	X	-	-	-	-	-	-	-	-	-	-
Sulfur Chloride	E	X	X	X	-	G	-	G	X	X	G	X	X
Sulfur Dioxide (Dry)	E	X	X	X	-	G	-	X	G	E	E	E	E
Sulfur Dioxide (Liquid)	E	G	X	-	-	G	-	-	-	-	-	-	-
Sulfur Dioxide (Moist)	E	G	X	-	-	G	-	E	-	G	E	E	X
Sulfur Hexafluoride (Gas) (to 70°F)	E	E	G	-	-	G	-	X	-	-	-	-	-
Sulfur Trioxide (Dry)	E	X	X	X	X	X	-	E	G	G	G	G	X

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### Hose

### Fittings and Adapters

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Sulfuric Acid (10%)	E	E	G	G	E	E	-	X	-	X	X	G	X
Sulfuric Acid (30%)	E	E	-	-	E	E	-	X	X	X	G	X	X
Sulfuric Acid (50%)	E	G	X	X	E	E	-	X	X	X	G	X	X
Sulfuric Acid (75%)	E	X	X	X	-	G	-	X	X	X	G	X	X
Sulfuric Acid (93%)	E	X	X	X	-	X	-	X	G	X	G	X	X
Sulfuric Acid (98%)	E	X	X	X	X	X	-	X	G	X	G	X	X
Sulfuric Acid, 3 Molar		X	X	-	-	-	-	-	-	-	-	-	-
Sulfuric Acid, 85%	E	X	X	-	-	-	-	-	X	G	E	X	-
Sulfuric Acid, Aerated, No Velocity	E	-	-	-	-	-	-	-	G	G	G	X	-
Sulfuric Acid, Air Free, No Velocity	E	-	-	-	-	-	-	-	X	X	G	X	-
Sulfuric Acid, Concentrated	E	X	X	-	-	-	-	-	-	E	E	-	-
Sulfuric Acid, Fuming, Oleum (Permeable)	E	X	-	-	-	-	-	-	G	E	E	G	-
Sulfurous Acid	E	G	G	-	-	-	-	X	X	X	G	G	-
Sulfurous Acid (10%)	E	-	X	-	E	E	-	-	-	X	G	E	X
Sulfurous Acid (75%)	E	X	X	X	E	E	-	X	X	X	G	X	X
Sulphuric Acid (10%)		-	G	-	-	-	-	X	X	G	E	X	X
Sulphuric Acid (5%)		-	E	-	-	-	-	X	G	G	E	X	X
Sulphuric Acid (5% Boiling)		X	-	-	-	-	-	X	X	X	-	X	X
Sulphuric Acid (50%)		X	X	-	-	-	-	X	X	X	X	X	X
Sulphuric Acid, Concentrated		X	X	-	-	-	-	X	-	E	E	X	X
Sulphuric Acid, Concentrated at 300%		X	X	-	-	-	-	-	X	X	X	X	X
Sulphuric Acid, Concentrated Boiling		X	X	-	-	-	-	-	X	X	X	X	X
Sulphuric Acid, Fuming		X	-	-	-	-	-	-	G	G	G	X	-
Sulphuric Acid (10% Boiling)		X	X	-	-	-	-	X	X	X	-	X	X
Sulphurous Acid, Saturated		X	X	-	-	-	-	G	-	E	E	X	X
Sun Minesafe, Sunsafe													
Sun R&O Oils		-	E	-	-	-	G	E	E	E	E	E	E
Sunsafe (Fire Resistant Hydraulic Fluid) to 70°F	E	G	E	-	-	-	G	E	E	E	E	E	-
Suntac HP Oils		-	E	-	-	-	G	E	E	-	E	E	-
Suntac WR Oils		-	E	-	-	-	G	E	E	-	E	E	-
Sunvis Oils 700, 800, 900		-	E	-	-	-	G	E	E	E	E	-	-
Super Hydraulic Oils (Conoco)		-	E	-	-	-	G	E	E	E	E	E	-
Sutan Plus, Herbicide		X	X	X	E	-	-	E	E	E	E	E	-
Sutazine Plus, Herbicide		X	X	-	E	-	-	E	X	E	E	E	-
Synestic													
Synthetic Oil (Citgo)		-	-	-	-	-	G	E	E	E	E	-	-
Syrup	E	G	E	G	-	-	-	E	-	E	E	E	-

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## Chemical Resistance Tables

The following is a representative list of fluids, manufacturers and a general guideline for the use and compatibility of Continental hose and fittings.

### Rating Scale

**E** Excellent resistance      **X** Not Recommended  
**G** Good Resistance      **-** Testing Recommended      **Blank** No Data

Chemical Name	Hose								Fittings and Adapters				
	PTFE (Teflon®)	CR (Polychloroprene)	NBR (Nitrile)	Nitrile / PVC	CPE	CSM	Urethane	Nylon	Carbon Steel	Stainless Steel 304	Stainless Steel 316	Aluminum	Brass
Tall Oil (Under 100°F)	E	G	G	G	-	X	-	-	G	X	G	X	-
Tallow	E	G	G	G	-	-	-	E	G	G	G	E	G
Tannic Acid (10%)	E	G	X	-	E	G	-	X	G	E	E	G	X
Tannin		E	E	-	-	-	-	E	-	-	-	-	-
Tar (Bituminous, Under 100°F)	E	G	G	G	X	-	-	-	E	E	E	E	G
Tar and Tar Oil		G	-	-	-	-	G	E	E	E	E	E	G
Tartaric Acid	E	G	G	G	E	E	-	E	X	G	G	G	X
Tellus Oils (to 70°F)	E	-	E	-	-	-	G	E	E	E	E	E	E
Tenol Oils		-	E	-	-	-	G	E	E	E	E	-	-
Tergitol		-	-	-	-	-	-	-	G	E	E	-	G
Terpineol	E	X	G	-	E	G	-	G	E	E	E	E	-
Terresstic		-	E	-	-	-	-	E	E	E	E	-	-
Tertiary Butyl Alcohol													
Tetra Chloro Benzene													
Tetra Chloro Ethane	E												
Tetra Chloro Ethylene (Permeable)	E												
Tetra Chloro Methane	E												
Tetra Chloro Naphthalene													
Tetra Ethylene Glycol													
Tetraethyl Lead		G	G	-	-	-	-	G	-	-	-	-	-
Tetraethyl Lead Blench		X	G	-	-	-	-	-	-	-	-	-	-
Tetrahydrofuran (THF)		X	X	-	-	X	G	E	G	E	E	-	-
Tetralin		X	X	-	-	X	-	G	E	E	E	E	-
Texaco 760 Hydrafluid													
Texaco 766, 763 (200-300)													
Thiopen (to 70°F)	E	X	X	-	-	-	-	-	-	-	-	-	-
Tim-Sol													
Titanium Tetrachloride	E	X	X	X	-	-	-	-	E	G	G	X	X
Toluene (Toluol)	E	X	X	X	X	X	-	E	E	E	E	E	E
Toluene Diisocyanate (Under 150°F)	E	X	-	-	-	-	-	-	E	E	E	-	-
Transformer Oil (Askarel Types)		X	X	X	E	X	-	-	E	E	E	E	-
Transformer Oil (Petroleum Type)	E	G	E	G	E	X	G	E	E	E	E	E	E
Transmission Fluid Type A	E	G	E	G	E	G	-	G	E	E	E	E	E
Tributyl Phosphate	E	X	X	X	G	X	-	-	E	-	-	X	-
Tributoxyethyl Phosphate	E	X	X	X	X	X	-	G	E	-	-	X	-
Tributyl Phosphate	E												
Trichloro Acetic Aci	E												
Trichloro Etane (Permeable)	E												

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## Chemical Resistance Tables

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### Rating Scale

**E** Excellent resistance      **X** Not Recommended  
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Chemical Name	Hose								Fittings and Adapters				
	PTFE (Teflon®)	CR (Polychloroprene)	NBR (Nitrile)	Nitrile / PVC	CPE	CSM	Urethane	Nylon	Carbon Steel	Stainless Steel 304	Stainless Steel 316	Aluminum	Brass
Trichloroethylene (Permeable)	E	X	X	X	G	X	-	G	X	G	E	X	E
Trichloromonofluoroethane (Freon 113) (to 200°F)	E	-	E	-	-	-	-	-	E	E	E	X	-
Trichloromonofluoroethane (Freon 17) (to 200°F)	E	-	-	-	-	-	-	-	E	E	E	X	-
Tricresyl Phosphate	E	X	X	X	E	X	-	E	E	G	G	X	-
Triethanolamine (TEA)	E	G	G	-	E	G	-	E	E	E	E	E	E
Triphenyl Phosphate													
Tripolyphosphate (STPP)		X	E	-	-	-	-	-	-	G	E	X	-
Trisodium Phosphate E													
Tung Oil (to 400°F)	E	G	G	-	-	G	-	E	E	E	E	E	E
Turbine Oil #15 (MIL-L-7808A) (to 70°F)	E	X	E	-	-	-	-	-	E	E	E	E	-
Turbine Oil (to 250°F)	E	X	E	-	-	-	-	-	E	E	E	E	-
Turbo Oil #35		X	G	-	-	-	-	-	E	E	E	E	-
Turpentine	E	X	G	-	G	X	E	E	X	E	E	E	G
Tycol A Turbo 37, 50, 58, 60		-	E	-	-	-	G	E	E	E	E	-	-
Tycol Avalon 50, 57, 60		-	E	-	-	-	G	E	E	E	E	-	-
Type I Fuel (MIL-S-3136) ASTM Fuel A (to 300°F)	E	G	E	-	-	-	-	-	E	E	E	E	-
Type II Fuel (MIL-S-3136)		X	G	-	-	-	-	-	E	E	E	E	-
Type III Fuel (MIL-S-3136) ASTM Fuel B (to 300°F)	E	X	E	-	-	-	-	-	E	E	E	E	-
Ucon Hydrolube Types 150CP, 200CP		-	E	-	-	-	G	E	E	E	E	E	E
Ucon Hydrolube Types 275CP, 300CP, 550CP (to 70°F)	E	-	-	-	-	-	-	-	-	-	-	-	-
Ucon M1		-	E	-	-	-	G	E	E	E	E	E	E
Union ATF Dexron		-	E	-	-	-	G	E	E	E	E	E	E
Union ATF Type F		-	E	-	-	-	G	E	E	E	E	E	E
Union C-2 Fluid		-	E	-	-	-	G	E	E	E	E	E	E
Union C-P Oil		-	E	-	-	-	G	E	E	E	E	E	E
Union Hydraulic Oil AW		-	E	-	-	-	G	E	E	E	E	E	E
Union Hydraulic Tractor Fluid		-	E	-	-	-	G	E	E	E	E	E	E
Univis 40, Hydraulic Fluid		G	E	-	-	-	-	-	E	E	E	E	-
Unleaded Gasoline	E												
Urea Solution	E	E	G	-	E	E	G	E	E	E	E	G	-
Urethane Formulations													
Uric Acid (100%) (to 250°F)	E												
Uric Acid (75%) (to 400°F)	E												
Varnish	E	X	X	X	X	X	-	E	G	E	E	E	G
Vaseline	E												
Vegetable Oils	E	G	E	G	E	-	G	E	E	E	E	E	G

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### Rating Scale

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- Testing Recommended
- Blank** No Data

Chemical Name	Hose								Fittings and Adapters					
	PTFE (Teflon®)	CR (Polychloroprene)	NBR (Nitrile)	Nitrile / PVC	CPE	CSM	Urethane	Nylon	Carbon Steel	Stainless Steel 304	Stainless Steel 316	Aluminum	Brass	
Vegetable Oils (Hot)	-	-	-	-	-	-	E	G	G	G	E	G		
Versilube	E	E	E	-	-	-	-	-	E	E	E	E	-	
Versilube F-50, F-44 (to 70°F)	E	G	G	G	-	G	G	E	E	E	E	E	E	
Vinyl Acetate	E	X	X	X	E	X	-	-	G	E	G	E	G	
Vinyl Chloride (Chloroethylene, Monomer) (Permeable)	E	X	X	X	X	X	-	-	G	E	E	G	X	
Vital 4300, 5310														
Vitrea Oils		-	E	-	-	-	G	E	E	E	E	-	-	
Volt Esso 35														
Water	E	E	E	E	E	E	E	E	E	E	E	E	E	
Water Glycols	E													
Water in Oil Emulsion		-	-	-	-	-	G	E	-	-	-	-	-	
Water (Under 150°F)	E													
Water (Up to 200°F)	E													
Water, Acid Mine	E	G	X	-	-	-	-	E	X	G	G	X	X	
Water, Brine		G	G	-	-	E	E	E	X	G	G	-	-	
Water, Demineralized	E	-	-	-	-	-	-	-	-	-	-	-	E	
Water, Distilled	E	G	E	-	-	E	E	E	X	E	E	E		
Water, Fresh	E	E	E	-	-	-	-	E	X	E	E	E	-	
Water, Potable (FDA Tube Only)	E		Use FDA Hose only						E					
Water, Salt	E	G	E	-	-	-	-	E	X	G	G	X		
Whiskey	E											X		
White & Bagley N° 2190 Cutting Oil		G	E	-	-	-	-	-	-	-	-	-	-	
White Oil (to 70°F)	E											-		
White Pine Oil												X		
Wines	E		Use FDA Hose only											
Wood Alcohol														
Wood Oil (to 400°F)	E	G	E	-	E	G	E	E	E	E	E	E		
Xenon	E													
Xylene, Xylol	E	X	E	-	X	-	G	G	G	G	G	E		
Xylidine														
Zeric		-	E	-	-	-	G	G	-	-	-	-		
Zinc Acetate	E	G	X	-	-	X	-	G	E	E	E	E		
Zinc Carbonate (to 200°F)	E													
Zinc Chloride Solutions	E	E	E	E	E	E	-	E	X	G	E	X		
Zinc Chromate 75% (to 400°F)	E	-	-	-	E	E	-	-	-	E	E	-		
Zinc Hydrate		-	-	-	-	-	G	-	-	-	-	-		
Zinc Sulfate Solutions (to 300°F)	E	G	G	G	E	G	-	G	X	G	E	X		

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# Design Considerations

## Association for Rubber Products Manufacturers Design Considerations

Reprinted from ARPM Hose Handbook (IP-2-2015)

### Design Ratio

A ratio used to establish the working pressure of the hose, based on the burst strength of the hose.

### Design Considerations

In designing hose, it is customary to develop a design ratio, which is the ratio between the minimum burst pressure and the maximum working pressure (WP).

Burst test data is compiled, and the minimum value is established by accepted statistical techniques. This is done as a check on theoretical calculations, based on the strength of reinforcing materials and on the characteristics of the method of fabrication.

Minimum burst values are used as one factor in establishing a reasonable and safe maximum working pressure.

### Maximum Working Pressure is One of the Essential Operating Characteristics that a Hose User Must Know and Respect to Assure Satisfactory Service and Optimum Life.

It should be noted that design ratios are dependent on more than the minimum burst value. The hose technologist must anticipate natural decay in the strength of reinforcing materials, the accelerated decay induced by the anticipated environments in which the hose will be used and the dynamic situations that a hose might likely encounter in service.

Including all considerations, the following design ratios should be considered minimum requirements for newly manufactured hose:

Ratio	Hose Type
2:1	Hose for the delivery of cement, concrete, plaster and grout designed to ASME B30.27
3:1	Water hose up to 1 MPa (150 psi) WP
4:1	Hose for all other liquids, solid materials suspended in liquids or air and water hose over 1 MPa (150 psi) WP
	Hose for compressed air and other gases
5:1	Hose for liquid media that immediately changes into gas under standard atmospheric conditions
10:1	Steam hose

## Standards Certifications



Compliant with standards and accepted practices designed by industry experts for the sanitary design, fabrication, installation and cleanability of dairy and food equipment or systems used to handle, process and package consumable products where a high degree of sanitation is required to prevent contamination.



A classification society, with a mission to promote the security of life, property and the natural environment, primarily through the development and verification of standards for the design, construction and operational maintenance of marine-related facilities.



A non-profit organization that oversees the development of voluntary consensus standards for products, services, processes, systems and personnel in the U.S. They also coordinate U.S. standards with international standards so that American products can be used worldwide. ANSI accredits standards that are developed by representatives of other standards organizations, government agencies, consumer groups, companies and others. These standards ensure that the characteristics and performance of products are consistent, that people use the same definitions and terms and that products are tested the same way.



The largest U.S. trade association for the oil and natural gas industry. It functions on behalf of the industry in the establishment and certification of industry standards.



Its core mission has been designed to provide waste reduction, benchmarking, networking, international management of product standards and educational opportunities to its member executives.



ASME is one of the oldest standards-developing organizations in America. It produces approximately 600 codes and standards covering many technical areas, such as fasteners, plumbing fixtures, elevators, pipelines and power plant systems and components. ASME standards are developed by committees of subject matter experts using an open, consensus-based process. Many ASME standards are cited by government agencies as tools to meet their regulatory objectives. ASME standards are therefore voluntary unless the standards have been incorporated into a legally binding business contract or incorporated into regulations enforced by an authority having jurisdiction, such as a federal, state or local government agency. ASME's standards are used in more than 100 countries.



An international standards organization that develops and publishes voluntary consensus technical standards for a wide range of materials, products, systems and services. Some 12,575 ASTM voluntary consensus standards operate globally.



The German Federal Institute for Risk Assessment approved list of natural and synthetic rubbers and their requirements to be used in food commodities.

## Standards Certifications



Standards are produced by the BSI Group which is incorporated under a Royal Charter. The BSI Group produces British Standards under the authority of the Charter, which lays down as one of the BSI's objectives to set up standards of quality for goods and services. They also prepare and promote the general adoption of British Standards and schedules in connection therewith and from time to time to revise, alter and amend such standards and schedules as experience and circumstances require.



An international certification agency. In addition to certifications, they provide health, safety and environmental (HSI) expertise.



Meets the standard set by the California Air Resource Board for low permeation performance and is compatible with the Assist Phase II EVR Systems.



The CE marking indicates that the manufacturer or importer claims compliance with the relevant EU legislation applicable to a product, regardless of where it's manufactured. By affixing the CE marking on a product, a manufacturer is declaring, as its sole responsibility, conformity with all of the legal requirements to achieve CE marking. This allows free movement and sale of the product throughout the European Economic Area.



The Compressed Gas Association is an ANSI-accredited standards developing organization working directly with federal, state and provincial agencies to promote safe and responsible practices and regulations. They establish safety standards, safety information and warnings about the chemical or physical properties of gases and their containers.



CSA is authorized by the Canadian government to approve and certify electrical products in accordance with the "Canadian Electrical Code." A CSA-listed product means a product has been tested and meets applicable standards for safety and/or performance, including the applicable standards written or administered by the American National Standards Institute (ANSI), Underwriters Laboratories (UL), Canadian Standards Association (CSA), NSF International (NSF) and others.



Standard requirements cover hose and hose assemblies, including vapor recovery hose and assemblies, for use on dispensing devices for flammable liquids. A flammable liquid (gasoline and diesel) hose assembly consists of flexible hose and fittings suitable for attachment to flammable liquid-dispensing equipment. The term "gasoline" includes gasoline with small amounts of additives such as detergents, solvents for detergents, anti-icing chemicals and gasoline with up to 15 percent ethanol. Meets Canadian safety requirements for electrical code.



An international accredited registrar and classification society providing services for several industries including maritime, renewable energy, oil and gas, electrification, food and beverage and healthcare. It is also the largest technical consultancy and supervisory to the global renewable energy (particularly wind, wave, tidal and solar) and oil and gas industry—65% of the world's offshore pipelines are designed and installed to DNV GL's technical standards.

## Standards Certifications



An agency of the federal government of the United States which was created for the purpose of protecting human health and the environment by writing and enforcing regulations based on laws passed by Congress. It has the responsibility of maintaining and enforcing national standards under a variety of environmental laws, in consultation with state, tribal and local governments. It delegates some permitting, monitoring and enforcement responsibility to U.S. states and the federally recognized tribes.



Hose composition consists of Food and Drug Administration-approved materials for use in the direct contact of food products.



The International Organization for Standardization is an independent, non-government organization made up of the standards organizations of 163 member countries. It is the world's largest developer of voluntary international standards and facilitates world trade by providing common standards between nations. Over twenty thousand standards have been set, covering everything from manufactured products and technology to food safety, agriculture and healthcare. Use of the standards aids in the creation of products and services that are safe, reliable and of good quality. The standards help businesses increase productivity while minimizing errors and waste. By enabling products from different markets to be directly compared, they facilitate companies in entering new markets and assist in the development of global trade on a fair basis. The standards also serve to safeguard consumers and the end-users of products and services, ensuring that certified products conform to the minimum standards set internationally.



A technical and business services organization and a maritime classification society dedicated to research and education in the science of engineering. They look to enhance the safety of life, property and the environment by helping clients to ensure the quality construction and operation of critical infrastructure.



Meets the guidelines set by the Mine Safety and Health Administration to ensure the safety and health of users while using products in a mining application.



Professional organization for the corrosion industry publishing standard practice, test method and material requirements standards for use by industry and other corrosion societies.



Promotes highly professional business and product standards and ethical conduct in dealing with customers, suppliers and competitors. Includes companies worldwide and engages in the distribution and manufacture of all types of hose, tubing, couplings, fittings, clamps and related accessories serving the industrial marketplace.



American industry trade association serving as a forum where all fluid power channel partners work together to advance fluid power technology, strengthen the fluid power industry and foster members' success.

## Standards Certifications



If you manufacture, sell or distribute water treatment or distribution products in North America, your products are required to comply with NSF/ANSI 61: Drinking Water System Components - Health Effects by most governmental agencies that regulate drinking water supplies.



Voluntary association of oil companies that have an interest in the shipment and terminalling of crude oil and oil products. Their mission is to be the foremost authority on the safe and environmentally responsible operation of oil tankers and terminals, promoting continuous improvement in standards of design and operation.



Leading trade association for the United Kingdom's offshore oil and gas industry. They develop and deliver industry-wide initiatives and programs engaging with governments and other external organizations.



Ratings are determined on two factors, permeability and fire resistance. Particularly with volatile gasoline, permeability is a concern due to vapor buildup. This rating system is used exclusively for marine hose and it provides the following grades: A1—fuel feed hose has a fire-resistant cover, is designed to have fuel in the hose at all times and is the least permeable with the highest fire resistance. A2—fuel vent hose has a fire resistant cover, is not designed to have fuel in the hose at all times. B1—fuel feed hose; without fire resistant cover; is designed to have fuel in the hose at all times and is intended for non-enclosed spaces. Is intended for diesel engines or above-deck outboard gasoline applications. B2—fuel vent hose, without fire-resistant cover, is not designed to have fuel in the hose at all times. Is intended for diesel vent lines.



UL is the leading organization for “electrical safety” in the U.S., an important member of all boards of the “National Electrical Code” and substantially involved in harmonizing international IEC standards. The UL-listed products means that UL has tested and evaluated representative samples of that product and determined that they meet UL requirements.



Follows federal regulations for marine components safety requirements.



Hose meets the guidelines set by the U.S. Department of Agriculture to convey food products safely by being FDA certified.



A federal Cabinet department of the U.S. government concerned with transportation. Its mission is to serve the United States by ensuring a fast, safe, efficient, accessible and convenient transportation system that meets the vital national interests and enhances the quality of life of the American people, today and into the future.



Hose that meets the guidelines set by U.S. Pharmacopeial Convention to maintain the purity and quality of product being conveyed.

# Hose Testing Methods

Reprinted from ARPM Hose Handbook (IP-2-2015)

## Safety Warning

Testing can be dangerous and should be done only by trained personnel using proper tools and procedures. Failure to follow such procedures might result in damage to property and/or serious bodily injury.

The Association for Rubber Products Manufacturers (ARPM) recognizes, accepts and recommends the testing methods of the American Society for Testing and Materials (ASTM).

Unless otherwise specified, all hose tests are to be conducted in accordance with ASTM Method No. D-380 (latest revision). Where an ASTM D-380 test is not available, another test method should be selected and described in detail.

ARPM participates with ASTM under the auspices of the American National Standards Institute (ANSI) in Technical Committee 45 (TC45) of The International Organization for Standardization (ISO) in developing both hose product and hose test method standards. Many of the hose test method standards published by ISO duplicate or closely parallel those shown in ASTM D-380. Many are unique and, in those cases, the ARPM may be able to provide the necessary test standard references which may be purchased from the ANSI.

## Hydrostatic Pressure Tests

Hydrostatic pressure tests are classified as follows:

1. **Destructive Type**
  - a. **Burst Test**
  - b. **Hold Test**

### Destructive Tests

Destructive tests are conducted on short specimens of hose, normally 18 inches (460 mm) to 36 inches (915 mm) in length—and, as the name implies, the hose is destroyed in the performance of the test.

- a. **Burst Test** - Burst pressure is recorded as the pressure at which actual rupture of a hose occurs
- b. **Hold Test** - A hold test, when required, is a means of determining whether weakness will develop under a given pressure for a specified period of time

2. **Non-Destructive Type**
  - a. **Proof Pressure Test**
  - b. **Change in Length Test (Elongation or Contraction)**
  - c. **Change in Outside Diameter or Circumference Test**
  - d. **Warp Test**
  - e. **Rise Test**
  - f. **Twist Test**
  - g. **Kink Test**
  - h. **Volumetric Expansion Test**

*Non-Destructive Tests continued on the next page.*

## Hose Testing Methods

### Hydrostatic Pressure Tests

#### Non-Destructive Tests *Continued*

Non-destructive tests are conducted on a full length of a hose or hose assembly. These tests are for the purpose of eliminating hose with defects that cannot be seen by visual examination or are used in order to determine certain characteristics of the hose while it is under internal pressure.

- a. **Proof Pressure Test** - A proof pressure test is normally applied to hose for a specified period of time. On new hose, the proof pressure is usually 50% of the minimum specified burst except for woven jacket fire hose where the proof pressure is twice the service test pressure marked on the hose (67% of specified minimum burst). Hydrostatic tests performed on fire hose in service should be no higher than the service test pressure referred to above. The regulation of these pressures is extremely important so that no deteriorating stresses will be applied, thus weakening a normal hose.
- b. **Change in Length Test** - With some type of hose, it is useful to know how a hose will act under pressure. All change in length tests, except when performed on wire braid or wire-spiraled hose, are made with original length measurements taken under a pressure of 10 psi (0.069 MPa). The specified pressure, which is normally the proof pressure, is applied and immediate measurement of the characteristics desired are taken and recorded.  
  
Percent length change (elongation or contraction) is the difference between the length at 10 psi (0.069 MPa) (except wire-braided or wire-spiraled) and that of the proof pressure times 100 divided by the length at 10 psi (0.069 MPa). Elongation occurs if the length of the hose under the proof pressure is greater than at a pressure of 10 psi (0.069 MPa). Contraction occurs if the length at the proof pressure is less than at 10 psi (0.069 MPa). In testing wire-braided or spiraled hose, the proof pressure is applied and the length recorded. The pressure is then released and, at the end of 30 seconds, the length is measured; the measurement obtained is termed the "original length."
- c. **Change in Outside Diameter Test** - Percent change in outside diameter or circumference is the difference between the outside diameter or circumference at 10 psi (0.069 MPa) and is obtained under the proof pressure times 100 divided by the outside diameter or circumference at 10 psi (0.069 MPa). Expansion occurs if the measurement at the proof pressure is greater than at 10 psi (0.069 MPa). Contraction occurs if the measurement at the proof pressure is less than 10 psi (0.069 MPa).
- d. **Warp Test** - Warp is the deviation from a straight line drawn from fitting to fitting; the maximum deviation from this line is warp. First, a measurement is taken at 10 psi (0.069 MPa) and then again at the proof pressure. The difference between the two, in inches, is the warp. Normally this is a feature measured on woven jacket fire hose only.
- e. **Rise Test** - Rise is a measure of the height a hose rises from the surface of the test table while under pressure. The difference between the rise at 10 psi (0.069 MPa) and at the proof pressure is reported to the nearest 0.25 inch (6.4 mm). Normally, this is a feature measured on woven jacket fire hose only.
- f. **Twist Test** - Twist is a rotation of the free end of the hose while under pressure. A first reading is taken at 10 psi (0.069 MPa) and a second reading at proof pressure. The difference, in degrees, between the 10 psi (0.069 MPa) base and that at the proof pressure is the twist. Twist is reported as right twist (to tighten couplings) or left twist. Standing at the pressure inlet and looking toward the free end of a hose, a clockwise turning is "right twist" and counterclockwise is "left twist."
- g. **Kink Test** - A measure of the ability of a woven jacket hose to withstand a momentary pressure while the hose is bent back sharply on itself at a point approximately 18 inches (457 mm) from one end. The test is made at pressures ranging from 62% of the proof pressure on sizes 3 inches (76 mm) and 3.5 inches (89 mm) to 87% on sizes under 3 inches (76 mm). This is a test applied to woven jacket fire hose only.
- h. **Volumetric Expansion Test** - Volumetric expansion test is applicable only to specific types of hose, such as hydraulic or power steering hose, and is a measure of its volumetric expansion under ranges of internal pressure.

# Electrical Resistance Tests

## For Hose and Hose Assemblies

### 1.0 Purpose

This procedure specifies methods for performing electrical resistance tests on rubber and/or plastic hose and hose assemblies.

### 2.0 Scope

These procedures are intended to test electrical conductive, antistatic and non-conductive (insulating) hose, along with electrical continuity or discontinuity between fittings.

#### Safety Warning

Hydraulic hose used on power and telephone mobile equipment should be tested to SAE 100R8 requirements.

### 3.0 Definitions

**3.1 Antistatic Hose** - Antistatic hose constructions are those that are capable of dissipating the static electricity buildup that occurs during the high-velocity flow of material through a hose.

**3.2 Conductive Hose** - Conductive hose constructions are those that are capable of conducting an electrical current.

**3.3 Direct Current (DC)** - Flow of electrical current in one direction at a constant rate.

**3.4 Electrical Conductivity** - A measure of the ease with which a material is capable of conducting an electrical current. Conductivity = 1/Resistance.

**3.5 Electrical Resistance** - Property of an object to resist or oppose the flow of an electrical current.

**3.6 Non-Conductive (Insulating) Hose** - Non-conductive hose constructions are those that resist the flow of electrical current.

**3.7 Ohm's Law** - The electrical current, "I," is equal to the applied voltage, "V," divided by the resistance, "R." In practical terms, the higher the electrical resistance at a constant voltage, the lower the electrical current flow through an object.

**3.8 Ohm** - The amount of resistance that limits the passage of current to one ampere when a voltage of one volt is applied to it.

### 4.0 Apparatus

**4.1 Test Instruments** - All test instruments should have a gauge reliability and reproducibility (R&R) of less than 30%. Some instruments made to measure high electrical resistance may have an internal protection circuit built-in, which will cause test errors in the less than one megohm range.

During the test, no more than 3 watts (W) should be dissipated in the specimen to prevent erroneous results due to effects of temperature. The power dissipated should be determined by the square of the open-circuit voltage divided by the measured resistance (see formula below).

$$\text{Power Dissipation} = \frac{(\text{Voltage})^2}{\text{Resistance in Ohms}}$$

To determine the electrical resistance of non-conductive hose, the test should be made with an instrument designed specifically for measuring insulation resistance, having a nominal open-circuit voltage of 500 volts DC, or with any other instrument known to give comparable results. For measuring electrical discontinuity, a 1,000 volt DC source may be used instead of a 500 volt DC source.

For hose with a conductive tube or cover, the resistance values obtained may vary with the applied voltage, and errors may occur at low-test voltages. As a starting point, an ohmmeter (9V) can be used. For tests requiring measurement of electrical continuity between end fittings or through continuous internal or external bonded wires, the instrument used should be an ohmmeter (9V).

## Electrical Resistance Tests

### For Hose and Hose Assemblies

**4.2 Electrodes and Contacts** – When the test procedure calls for contact with the hose cover, electrodes should be formed around the outer circumference of the hose as bands 25 mm +2 mm, 0 mm (1"±1/16", 0") wide by applying silver lacquer/conductive liquid and metallic copper foil tape (i.e., 3M Scotch brand) as shown in Figure 6-1. When a conductive silver lacquer (i.e., Colloidal Silver Liquid is available from Ted Pella, Inc. catalog #16031) is used, the surface resistance between any two points on a sample of the dried film should not exceed 100  $\Omega$ . When a conductive liquid is used, the electrode contact area should be completely wetted and should remain so until the end of the test.

The conductive liquid should consist of:

- › Anhydrous polyethylene glycol of relative molecular mass 600: 800 parts by mass
- › Water: 200 parts by mass
- › Wetting agent: 1 part by mass
- › Potassium chloride: 10 parts by mass

When the test procedure calls for contact with the hose tube, it is preferable to use a copper plug of external diameter equal to or slightly greater than the hose ID or a steel hose stem, coated with the conducting liquid, and pushed 25 mm (1") into the hose. An alternative for 50 mm (2") and above hose would be to apply the conductive silver lacquer onto the hose ID, then insert the plug or hose stem. The electrical leads from the test instrument should be clean and they should make adequate contact with the metallic copper foil and/or copper plugs/hose stems.

#### 5.0 Preparation and Cleaning for Test

The surfaces of the hose should be clean. If necessary, the hose surface may be cleaned by rubbing with Fuller's earth (magnesium aluminum silicate) and water, followed by a distilled water rinse, then allowing the hose to dry in a non-contaminating environment. Do not use organic materials that attack or swell the rubber, and do not buff or abrade the test surfaces.

The surface of the hose should not be deformed either during the application of the contacts or during the test. When using test pieces, the supports should be outside the test length. When using a long length of hose, the hose should be uncoiled and laid out straight on polyethylene or other suitable insulating material. Care should be taken to ensure that the hose is insulated from any electrical leakage path along the length of the hose.

#### 6.0 Test Conditions

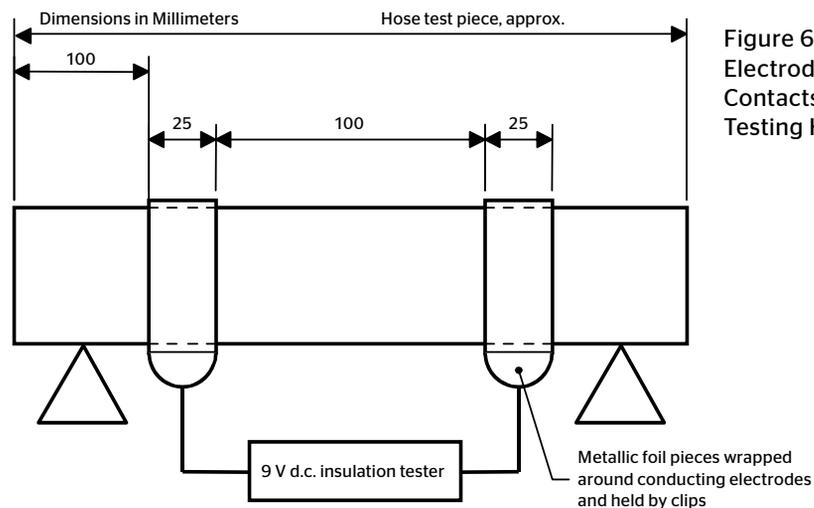
For lab testing, the hose or hose assemblies should be conditioned for at least 16 hours at +23° C ± 2°C (73.4°F ± 3.6°F) with a relative humidity not to exceed 70%. However, it is permissible, by agreement between the supplier and the customer, to use the conditions prevailing in the factory, warehouse or laboratory, provided that the relative humidity does not exceed 70%.

#### 7.0 Test Pieces

Prepare three test pieces approximately 300 mm (12") long from samples taken at random from a production run or lot. Condition the test pieces per section 6.0.

Place the test piece on blocks of polyethylene, or other insulating material, to provide a resistance of greater than 100  $\Omega$  between the test piece and the surface on which the blocks are supported. Ensure that the leads from the instrument do not touch each other, the hose or any part except the terminal to which each is connected.

Avoid breathing on the test surfaces, thus creating condensation that may lead to inaccuracies.



### 8.0 Procedure for hose with conducting tube

Apply the electrodes as specified to the inside surface of the hose at each end of the hose. The edge of the electrode plug should be coincident with the end of the hose. When using a conductive liquid, care should be taken to avoid creating a leakage path between the tube and the reinforcement or cover of the hose.

Apply the metal contacts to the electrodes.

Apply the test voltage (9V) and measure the resistance 5 seconds  $\pm$  1 second after the voltage is applied.

*Note: In previous editions of the Hose Handbook, this method was referred to as the Plug Method.*

### 9.0 Procedure for hose with conducting cover

Apply the electrodes as specified to the outer circumference of the hose at each hose end (see Figure 6-1).

Ensure that contact is maintained with the electrodes around the circumference and that the contact pieces are sufficiently long enough for the two free ends to be held securely by a tensioning clip (see Figure 6-1) such that the fit of the electrodes is as tight as possible.

Apply the metal contacts.

Apply the test voltage (9V) and measure the resistance 5 seconds  $\pm$  1 second after the voltage is applied.

### 10.0 Procedure for hose with conducting or nonconducting compounds throughout

Apply the electrodes as specified on the inside surface at one end of the hose (end "A") and on the outside surface at the other end of the hose (end "B").

Apply the metal contacts to the electrodes.

Apply the test voltage (9V for conductive compounds and 500V for non-conductive compounds) and measure the resistance for 5 seconds + 1 second after the voltage is applied.

## Electrical Resistance Tests

### For Hose and Hose Assemblies

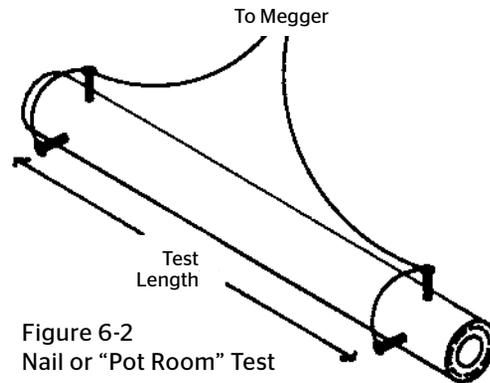


Figure 6-2  
Nail or "Pot Room" Test

#### *Alternative Method for Non-Conductive Hose - Nail or "Pot Room" Method*

Conduct this test as follows:

1. Cut sample hose, 24 inches long
2. Assure that both inside and outside of the hose are free of oil, dirt, etc.
3. Pierce sample ends with clean nails, as shown in Fig. 6-2
4. Connect nails to 1000V DC power source and megohm meter or 1000V "megger" as shown in Fig. 6-2
5. Record total resistance, in megohms
6. Measure "test length" as shown in Fig. 6-2
7. Divide total resistance by test length to get megohms per inch

#### 11.0 Procedure for hose assemblies fitted with metal end fittings

When it is required that the resistance of a hose assembly be measured, the leads of the test instrument should be attached directly to the metal hose shank (threaded end connection, fixed flange, stub end of a floating flange, etc.) of the metal end fittings.

Some hose, especially thermoplastic hose, have conductive layers within the hose construction. These hose should be tested as assemblies made with fittings and assembly techniques specified by the hose and fitting manufacturer. Apply the metal contacts to the metal end fittings.

Apply the test voltage (9V) and measure the resistance 5 seconds + 1 second after the voltage is applied.

#### 12.0 Procedure for measurement of electrical continuity

In certain types of hose constructions, electrical continuity is provided between the end fittings by means of a continuous wire or wires bonded to each coupling. When the construction is such that there are internal and external wires, the electrical continuity of both wires should be established.

It is essential that contact resistance between the end fittings and the ohmmeter be minimized.

Apply the metal contacts to the metal end fittings.

Apply the test voltage (9V) and measure the resistance for 5 seconds + 1 second after the voltage is applied.

## Elastomer Chart

### Elastomers Used in the Manufacture of “Rubber Type” Products

Continental Tradename	Industry Designation	Outstanding Feature	Sample Hose
Alphasyn	Modified Cross-Link Polyethylene (Mod XLPE)	Excellent high-temperature chemical resistance.	Tube compound in Viper chemical transfer hose.
Carbryn	Carboxylated Nitrile	Excellent oil and abrasion resistance, good chemical resistance.	Cover compound on multipurpose hose: Gorilla and Ortac. On pressure washer hose: Galvanator and Gauntlet.
Nitrile	Nitrile or Buna-N	Oil, solvent and aromatics resistance.	Tube and cover compound in premium air and multipurpose hose, petroleum transfer hose: Gorilla, Ortac, Flexwing Petroleum.
Chemivic	Nitrile (NBR)	Oil- and abrasion-resistant compound. Excellent ozone resistance.	Cover compound air/mp hose. Tube compound in food hose: White Flexwing.
Chemrin	Chlorinated Polyethylene (CPE)	Excellent chemical resistance.	Tube compound in chemical hose: Brown Flexwing.
Chlorobutyl	Chlorobutyl	FDA compliant material in food hose. Excellent heat resistance.	Tube compound in food hose and Flexsteel 250 CB Steam Hose.
Flosyn	Viton	Excellent oil and chemical resistance.	Tube compound in Orange Flexwing chemical hose.
Chlorosulfonated Polyethylene	Chlorosulfonated Polyethylene (CSM)	Chemical-and oil-resistant.	Tube compound in chemical transfer hose: Yellow Flexwing.
Nylon	Nylon	Resistant to many paint sprays, lacquers, thinners, and mild chemicals.	Tube compound in NR Paint Spray.
Omeegasyn	EPDM (abrasion-resistant)	Excellent abrasion resistance. Mild chemical resistance.	Cover compound: Viper.
SBR	SBR	Good abrasion resistance.	Tube and cover compound in water suction and discharge hose: Plicord Water S&D.
Pyrosyn	EPDM	Heat-resistant.	Tube compound in Flexsteel 250 Steam and Whitewater, Cover on Flexsteel 250 Steam and Flexsteel 250 CB Steam.

## Elastomer Chart

### Elastomers Used in the Manufacture of “Rubber Type” Products

Continental Tradename	Industry Designation	Outstanding Feature	Sample Hose
Pliosyn	Ultra-High Molecular Weight Polyethylene	Excellent chemical resistance. Good flexibility properties.	Tube compound in Fabchem chemical hose.
Pliovic	Polyvinyl Chloride	Lightweight, flexible and economical.	Pliovic 250, Spiraflex 1600.
Pureten	Natural Rubber	Excellent abrasion resistance, resilient, tensile strength and, retains flexibility below 0°F (-18°C) (poor ozone).	Tube compound in material handling hose: Blucor, Harvest and Tan Flexwing.
Speclar	Cross-Link Polyethylene	Excellent chemical resistance.	Tube compound in Blue Flexwing chemical hose.
Spirathane	Urethane	Excellent abrasion resistance and good chemical resistance.	Spirathane LD and inner liner of Spirathane HD.
Teflon	Fluorinated Propylene or Teflon	Excellent chemical and petroleum resistance.	Tube compound in Hi-Per Teflon Hose.
TPE	Thermoplastic Elastomer	Heat- and/or cold-resistant, flexible and resistant to solvents.	Premier.
Chemituf Polybutadiene	Polybutadiene Blend	Good tensile strength, high elongation, abrasion resistance, nonstatic properties.	Tube compound in Plicord Blast, Plicord Dredge Sleeve, Sand Suction.
EPDM	EPDM	Heat- and/or cold-resistant, weather- and ozone-resistant, mild chemical resistance.	Tube and cover compound in multipurpose hose: Frontier. Cover compound on chemical hose: Fabchem.
Weatherex	Butyl	Low permeability to air and gas; outstanding dampening and shock absorption.	Tube compound in chemical transfer hose: Yellow Flexwing.
Wingprene	Polychloroprene (CR)	All purpose elastomer; good oil, heat and chemical resistance; very good ozone resistance.	Cover compound in petroleum transfer hose: Super Black Flexwing and Red Flextra.

# Temperature Conversion Chart

Locate temperature in middle column. If in °C, read °F equivalent in right-hand column; if in °F, read °C in left-hand column.

**Temperature Equivalents**

$C = 0.556 (°F - 32)$        $F = (1.8 °C) + 32$

-459° to 0°			1° to 60°			61° to 290°			300° to 890°			900° to 3000°		
C	C/F	F	C	C/F	F	C	C/F	F	C	C/F	F	C	C/F	F
-273	-459.4		-17.2	1	33.8	16.1	61	141.8	149	300	572	482	900	1652
-268	-450		-16.7	2	35.6	16.7	62	143.6	154	310	590	488	910	1670
-262	-440		-16.1	3	37.4	17.2	63	145.4	160	320	608	493	920	1688
-257	-430		-15.6	4	39.2	17.8	64	147.2	166	330	626	499	930	1706
-251	-420		-15.0	5	41.0	18.3	65	149.0	171	340	644	504	940	1724
-246	-410		-14.4	6	42.8	18.9	66	150.8	177	350	662	510	950	1742
-240	-400		-13.9	7	44.6	19.4	67	152.6	182	360	680	516	960	1760
-234	-390		-13.3	8	46.4	20.0	68	154.4	188	370	698	521	970	1778
-229	-380		-12.8	9	48.2	20.6	69	156.2	193	380	716	527	980	1796
-223	-370		-12.2	10	50.0	21.1	70	158.0	199	390	734	532	990	1814
-218	-360		-11.7	11	51.8	21.7	71	159.8	204	400	752	538	1000	1832
-212	-350		-11.1	12	53.6	22.2	72	161.6	210	410	770	549	1020	1868
-207	-340		-10.6	13	55.4	22.8	73	163.4	216	420	788	560	1040	1904
-201	-330		-10.0	14	57.2	23.3	74	165.2	221	430	806	571	1060	1940
-196	-320		-9.4	15	59.0	23.9	75	167.0	227	440	824	582	1080	1976
-190	-310		-8.9	16	60.8	24.4	76	168.8	232	450	842	593	1100	2012
-184	-300		-8.3	17	62.6	25.0	77	170.6	238	460	860	604	1120	2048
-179	-290		-7.8	18	64.4	25.6	78	172.4	243	470	878	616	1140	2084
-173	-280		-7.2	19	66.2	26.1	79	174.2	249	480	896	627	1160	2120
-169	-273	-459.4	-6.7	20	68.0	26.7	80	176.0	254	490	914	638	1180	2156
-168	-270	-454	-6.1	21	69.8	27.2	81	177.8	260	500	932	649	1200	2192
-162	-260	-436	-5.6	22	71.6	27.8	82	179.6	266	510	950	660	1220	2228
-157	-250	-418	-5.0	23	73.4	28.3	83	181.4	271	520	968	671	1240	2264
-151	-240	-400	-4.4	24	75.2	28.9	84	183.2	277	530	986	682	1260	2300
-146	-230	-382	-3.9	25	77.0	29.4	85	185.0	282	540	1004	693	1280	2336
-140	-220	-364	-3.3	26	78.8	30.0	86	186.8	288	550	1022	704	1300	2372
-134	-210	-346	-2.8	27	80.6	30.6	87	188.6	293	560	1040	732	1350	2462
-129	-200	-328	-2.2	28	82.4	31.1	88	190.4	299	570	1058	760	1400	2552
-123	-190	-310	-1.7	29	84.2	31.7	89	192.2	304	580	1076	788	1450	2642
-118	-180	-292	-1.1	30	86.0	32.2	90	194.0	310	590	1094	816	1500	2732
-112	-170	-274	-0.6	31	87.8	32.8	91	195.8	316	600	1112	843	1550	2822
-107	-160	-256	0.0	32	89.6	33.3	92	197.6	321	610	1130	871	1600	2912
-101	-150	-238	0.6	33	91.4	33.9	93	199.4	327	620	1148	899	1650	3002
-96	-140	-220	1.1	34	93.2	34.4	94	201.2	332	630	1166	927	1700	3092
-90	-130	-202	1.7	35	95.0	35.0	95	203.0	338	640	1184	954	1750	3182
-84	-120	-184	2.2	36	96.8	35.6	96	204.8	343	650	1202	983	1800	3272
-79	-110	-166	2.8	37	98.6	36.1	97	206.6	349	660	1220	1010	1850	3362
-73	-100	-148	3.3	38	100.4	36.7	98	208.4	354	670	1238	1038	1900	3452
-68	-90	-130	3.9	39	102.2	37.2	99	210.2	360	680	1256	1066	1950	3542
-62	-80	-112	4.4	40	104.0	37.8	100	212.0	366	690	1274	1093	2000	3632
-57	-70	-94	5.0	41	105.8	43	110	230	371	700	1292	1121	2050	3722
-51	-60	-76	5.6	42	107.6	49	120	248	377	710	1310	1149	2100	3812
-46	-50	-58	6.1	43	109.4	54	130	266	382	720	1328	1177	2150	3902
-40	-40	-40	6.7	44	111.2	60	140	284	388	730	1346	1204	2200	3992
-34	-30	-22	7.2	45	113.0	66	150	302	393	740	1364	1232	2250	4082
-29	-20	-4	7.8	46	114.8	71	160	320	399	750	1382	1260	2300	4172
-23	-10	14	8.3	47	116.6	77	170	338	404	760	1400	1288	2350	4262
-17.8	0	32	8.9	48	118.4	82	180	356	410	770	1418	1316	2400	4352
			9.4	49	120.2	88	190	374	416	780	1436	1343	2450	4442
			10.0	50	122.0	93	200	392	421	790	1454	1371	2500	4532
			10.6	51	123.8	99	210	410	427	800	1472	1399	2550	4622
			11.1	52	125.6	100	212	413.6	432	810	1490	1427	2600	4712
			11.7	53	127.4	104	220	428	438	820	1508	1454	2650	4802
			12.2	54	129.2	110	230	446	443	830	1526	1482	2700	4892
			12.8	55	131.0	116	240	464	449	840	1544	1510	2750	4982
			13.3	56	132.8	121	250	482	454	850	1562	1538	2800	5072
			13.9	57	134.6	127	260	500	460	860	1580	1566	2850	5162
			14.4	58	136.4	132	270	518	466	870	1598	1593	2900	5252
			15.0	59	138.2	138	280	536	471	880	1616	1621	2950	5342
			15.6	60	140.0	143	290	554	477	890	1634	1649	3000	5432

# Pressure Conversions

Metric to psi (1 kPa = .145 psi)

Kilo Pascals (kPa)	Mega Pascals (MPa)	Bar (Bar)	Pounds per Square Inch (psi)
100	0.1	1	14.5
200	0.2	2	29.0
300	0.3	3	43.5
400	0.4	4	58.0
500	0.5	5	72.5
600	0.6	6	87.0
700	0.7	7	101.5
800	0.8	8	116.0
900	0.9	9	130.5
1,000	1.0	10	145.0
2,000	2.0	20	290.1
3,000	3.0	30	435.1
4,000	4.0	40	580.2
5,000	5.0	50	725.2
6,000	6.0	60	870.2
7,000	7.0	70	1,015
8,000	8.0	80	1,160
9,000	9.0	90	1,305
10,000	10.0	100	1,450
20,000	20.0	200	2,901
30,000	30.0	300	4,351
40,000	40.0	400	5,802
50,000	50.0	500	7,252
60,000	60.0	600	8,702
70,000	70.0	700	10,153
80,000	80.0	800	11,603
90,000	90.0	900	13,053
100,000	100.0	1,000	14,504
200,000	200.0	2,000	29,008
300,000	300.0	3,000	43,511

psi to Metric (1 psi = 6.89 kPa)

Pounds per Square Inch (psi)	Kilo Pascals (kPa)	Mega Pascals (MPa)	Bar (Bar)
10	68.9	0.07	0.7
20	137.9	0.14	1.4
30	206.8	0.21	2.1
40	275.8	0.28	2.8
50	344.7	0.34	3.4
60	413.7	0.41	4.1
70	482.6	0.48	4.8
80	551.6	0.55	5.5
90	620.5	0.62	6.2
100	689	0.7	6.9
200	1,379	1.4	13.8
300	2,068	2.1	20.7
400	2,758	2.8	27.6
500	3,447	3.4	34.5
600	4,137	4.1	41.4
700	4,826	4.8	48.3
800	5,516	5.5	55.2
900	6,205	6.2	62.1
1,000	6,895	6.9	68.9
2,000	13,790	13.8	147.9
3,000	20,684	20.7	206.8
4,000	27,579	27.6	275.8
5,000	34,474	34.5	344.7
6,000	41,369	41.4	413.7
7,000	48,263	48.3	482.6
8,000	55,158	55.2	551.6
9,000	62,053	62.1	620.5
10,000	68,948	68.9	689
20,000	137,895	147.9	1,379
30,000	206,843	206.8	2,068
40,000	275,790	275.8	2,758

## Fraction Equivalents

Fractions	Inches Decimals	Millimeters
1/64	0.015625	0.397
1/32	0.03125	0.794
3/64	0.046875	1.191
1/16	0.0625	1.588
5/64	0.078125	1.984
3/32	0.09375	2.381
7/64	0.109375	2.778
1/8	0.125	3.175
9/64	0.140625	3.572
5/32	0.15625	3.969
11/64	0.171875	4.366
3/16	0.1875	4.763
13/64	0.203125	5.159
7/32	0.21875	5.556
15/64	0.234375	5.953
1/4	0.250	6.350
17/64	0.265625	6.747
9/32	0.28125	7.144
19/64	0.296875	7.541
5/16	0.3125	7.938
21/64	0.328125	8.334
11/32	0.34375	8.731
23/64	0.359375	9.128
3/8	0.375	9.525
25/64	0.390625	9.922
13/32	0.40625	10.319
27/64	0.421875	10.716
7/16	0.4375	11.113
29/64	0.453125	11.509
15/32	0.46875	11.906
31/64	0.484375	12.303
1/2	0.500	12.700

Fractions	Inches Decimals	Millimeters
33/64	0.515625	13.097
17/32	0.53125	13.494
35/64	0.546875	13.891
9/16	0.5625	14.288
37/64	0.578125	14.684
19/32	0.59375	15.081
39/64	0.609375	15.478
5/8	0.625	15.875
41/64	0.640625	16.272
21/32	0.65625	16.669
43/64	0.671875	17.066
11/16	0.6875	17.463
45/64	0.703125	17.859
23/32	0.71875	18.256
47/64	0.734375	18.653
3/4	0.750	19.150
49/64	0.765625	19.447
25/32	0.78125	19.844
51/64	0.796875	20.241
13/16	0.8125	20.638
53/64	0.828125	21.034
27/32	0.84375	21.431
55/64	0.859375	21.828
7/8	0.875	22.225
57/64	0.890625	22.622
29/32	0.90625	23.019
59/64	0.921875	23.416
15/16	0.9375	23.813
61/64	0.953125	24.209
31/32	0.96875	24.606
63/64	0.984375	25.003
1	1.000	25.400

# Conversion Constants

## Length Conversion Constants

### Metric to U.S.

Millimeters x .039370 = Inches

Meters x 39.370 = Inches

Meters x 3.2808 = Feet

Meters x 1.09361 = Yards

Kilometers x 3,280.8 = Feet

Kilometers x .62137 = Statute Miles

Kilometers x .53959 = Nautical Miles

### U.S. to Metric

Inches x 25.4001 = Millimeters

Inches x .0254 = Meters

Feet x .30480 = Meters

Yards x .91440 = Meters

Feet x .0003048 = Kilometers

Statute Miles x 1.60935 = Kilometers

Nautical Miles x 1.85325 = Kilometers

## Weight Conversion Constants

### Metric to U.S.

Grams x 981 = Dynes

Grams x 15.432 = Grains

Grams x .03528 = Ounces (Avd.)

Grams x .033818 = Fluid Ounces (Water)

Kilograms x 35.27 = Ounces (Avd.)

Kilograms x 2.20462 = Pounds (Avd.)

Metric Tons (1000 Kg) x 1.10231 = Net Ton (2000 lbs.)

Metric Tons (1000 Kg) x .98421 = Gross Ton (2240 lbs.)

### U.S. to Metric

Dynes x .0010193 = Grams

Grains x .0648 = Grams

Ounces (Avd.) x 28.35 = Grams

Fluid Ounces (Water) x 29.57 = Grams

Ounces (Avd.) x .02835 = Kilograms

Pounds (Avd.) x .45359 = Kilograms

Net Ton (2000 lbs.) x .90719 = Metric Tons (1000kg)

Gross Ton (2240 lbs.) x 1.101605 = Metric Tons (1000kg)

## Area Conversion Constants

### Metric to U.S.

Square Millimeters x .00155 = Square Inches

Square Centimeters x .155 = Square Inches

Square Meters x 10.76387 = Square Feet

Square Meters x 1.19599 = Square Yards

Hectares x 2.47104 = Acres

Square Kilometers x 247.104 = Acres

Square Kilometers x .3861 = Square Miles

### U.S. to Metric

Square Inches x 645.163 = Square Millimeters

Square Inches x 6.45163 = Square Centimeters

Square Feet x .0929 = Square Meters

Square Yards x .83613 = Square Meters

Acres x .40469 = Hectares

Acres x .0040469 = Square Kilometers

Square Miles x 2.5899 = Square Kilometers

## Pressure Conversion Constants

### Metric to U.S.

Bar x 14.5 = psi

Mega Pascals x 145.0 = psi

kgf/cm<sup>2</sup> x 14.22 = psi

### U.S. to Metric

psi x .0689 = Bar

psi x .0069 = Mega Pascals (MPa)

psi x .0703 = kgf/cm<sup>2</sup>

## Production Run Minimum Requirements

Order Code Prefix	Manufacturing Facility	Description	Construction	Minimum Production Run
532	Norfolk	5/8" - 2"	Textile Reinforcement	2,500 feet
		5/8" - 2"	Wire Reinforcement	5,000 feet
535	Norfolk	3/16" - 1/4"	Textile Reinforcement	5,000 feet
		3/8" - 1"		2,500 feet
		1 1/4" - 2"		2,000 feet
535	Norfolk	3/16" - 1"	Wire Reinforcement	2,500 feet
	Military			2,500 feet
	Private Brand			2,500 feet
	GNSPEC			2,500 feet
536	Norfolk	3/16" - 1/4"	Textile Reinforcement	5,000 feet
		3/8" - 1 1/4"		2,500 feet
		1 1/2" - 2"		2,500 feet
547	Norfolk	3/16" - 1"	Wire Reinforcement	2,500 feet
		Military		2,500 feet
		Private Brand		2,500 feet
		GNSPEC		2,500 feet
		Special Lengths/ Packaging Requirements		2,500 feet

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