



 **SUPERLOK<sup>®</sup>**  
*i - Fitting*

844-200-MAKO

[SUPERLOKWORLD.COM](http://SUPERLOKWORLD.COM)



## UNION

### SUI

Union  
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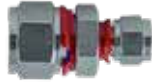
### SBHUI

Bulkhead Union  
Page 8



### SRUI

Reducing Union  
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### SBHRUI

Reducing Bulkhead Union  
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## CONNECTOR

### SMCI

Male Connector  
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### SMCI-GM

Male Connector  
Metal Gasket  
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### SGMCI

Male Connector  
Bonded Gasket  
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### SFCI

Female Connector  
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### SGCI

Gauge Connector  
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### SMCB

Male Bulkhead  
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### SFCB

Female Bulkhead  
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## ELBOWS

### SMEI

Male Elbow  
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### SHMEI

Male 45° Elbow  
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### SUEI

Union Elbow  
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### SPHMEI

45° Positionable Elbow  
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### SPMEI

Positionable Elbow  
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### SFEI

Female Elbow  
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## TEE

### SUTI

Union Tee  
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### SRUTI

Reducing Union Tee  
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### SMBTI

Male Branch Tee  
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### SPMBTI

Positionable Male  
Branch Tee  
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### SMRTI

Male Run Tee  
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### SPMRTI

Positionable Male Run Tee  
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### SFBTI

Female Branch Tee  
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### SFRTI

Female Run Tee  
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### SUCI

Union Cross  
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## STUB TUBE CONNECTOR

### SRI

Reducer  
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### SRB

Bulkhead Reducer  
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### SMA

Male Adapter  
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### SFA

Female Adapter  
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### SPC

Port Connector  
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### SRPC

Reducing Port Connector  
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## VENT PROTECTOR

### SVP

Vent Protector  
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## AN TUBE

### SAF

AN Flare  
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### SAUI

AN Union  
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### SAA

AN Adapter  
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## O-RING SEAL

### SOSCI

O-Seal Straight Thread  
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### SOPCI

O-Seal Pipe Thread  
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### SSMCI

SAE/MS Male Connector  
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## WELD END

### SPWCI

Male Pipe Weld Connector  
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### SMPWEI

Male Pipe Weld Elbow  
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### SSWCI

Socket Weld Connector  
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### SSWEI

Socket Weld Elbow  
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## PLUG & CAP

### SP

Body Plug  
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### SCI

Tube Cap  
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## SPARE PART

### SNi

Compression Nut  
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### SFS

Double Ferrule Set  
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### S1FS

Single Ferrule  
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### SI

Tubing Insert  
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## INSTRUMENTATION CONNECTOR

### ICN

Close Nipple  
Page 20



### IHN

Hex Nipple  
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### IHLN

Hex Long Nipple  
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### IHRN

Hex Reducing Nipple  
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### IA

Adapter  
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### IRA

Reducing Adapter  
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### IHRB

Hex Reducing Bushing  
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### IHC

Hex Coupler  
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### IHRC

Hex Reducing Coupler  
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## INSTRUMENTATION CAP & PLUG

### IPP

Pipe Plug  
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### IPC

Pipe Cap  
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## INSTRUMENTATION ELBOW

### IFE

Female Elbow  
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### ISE

Street Elbow  
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### IRSE

Reducing Street Elbow  
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### IME

Male Elbow  
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## INSTRUMENTATION TEE

### IFT

Female Tee  
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### IBT

Male Branch Tee  
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### IRT

Male Run Tee  
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### IMT

Male Tee  
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## INSTRUMENTATION CROSS

### IFC

Female Cross  
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## MAKO NEEDLE VALVES

### Standard

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### Bleed

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### Angle

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### Multi-Port

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### Double Block & Bleed

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### Mini

T-Handle  
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### Slim Mini

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### Angle Mini

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### Mini Round Handle

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## MAKO BALL VALVES

### 1000S

Full Port  
1,000 PSI  
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### 2000S02

Reduced Port  
2,000 PSI  
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### 2017

Reduced Port  
1,000 PSI  
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### 2006HL

Full Port  
2,000 PSI  
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### 3600

Full Port\*  
3,600 PSI  
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### 6000

Full Port\*  
6,000 PSI  
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### 2006 ISO

Isolator Valve  
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### 2006SR

Spring Return  
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## MAKO CHECK VALVES

### ICS

Inline  
6,000 PSI  
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## SUPERLOK NEEDLE VALVES

### SINV

Integral Bonnet  
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### SUNV

Union Bonnet  
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### SBNV

Bar Stock  
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## SUPERLOK BALL VALVES

### SBVI120H

One-Piece  
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### SBVI210

Two-Piece  
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### SBVFI360

Forged Body  
High Pressure - Page 29



### SBTI

Trunnion Bearing  
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### SBTHI

High Pressure Trunnion  
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### SWB320I

Swing Out Style  
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### SBVHI360

Three-Piece  
High Pressure - Page 31



### SPVI

Plug Valves  
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## SUPERLOK CHECK VALVES

### SOCV

One-Piece  
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### SOACV

Adjustable One-Piece  
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### SPCVI

Standard - 3,000 PSI  
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### SACVI

Adjustable  
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### SHCVI

High Pressure  
6,000 PSI - Page 32



### SEFVI

Excess Flow Valve  
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## SUPERLOK RELIEF VALVES

### SRVL

Low Pressure - 10-250 PSI  
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### SRVH

High Pressure - 225-6,000 PSI  
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## SUPERLOK BLEED VALVES

### SBLV

Bleed Valve  
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## OTHER SERIES & ACCESSORIES

### Purge Valve

Purge Valves  
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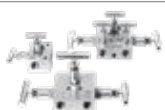
### Key Lock Ball Valves

Key Lock Valves  
Page 34



### Manifold Valves

Manifold Valves  
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### H-P Needle Valves

Up To 60,000 PSI  
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### Toggle Valves

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### Cryogenic Valves

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### Push-On Hose Barbs

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### Block & Bleed

Flange Style  
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### Quick Connectors

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### Tubing Benders

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### H-P Fittings

Up To 60,000 PSI  
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## OTHER SERIES & ACCESSORIES

### Tubing

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### UHP Valves

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### UHP Fittings

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### 37° Flare Fittings

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### DIN Fittings

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### Micron Filters

Tee and In-line  
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### JIS Fittings

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### Gang Clamps

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# **SUPERLOK® Valves & Fittings**

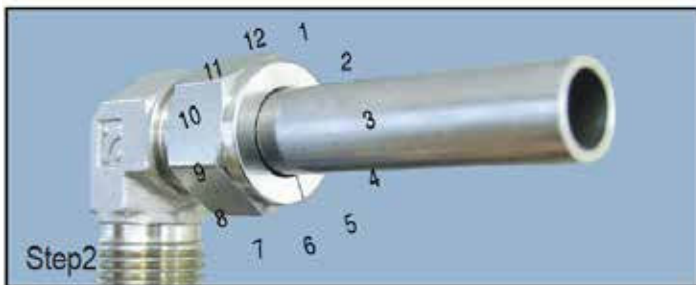
## **Standard** Tube Fitting Installation

Installation for non i-Fitting fittings 1/4 - 1 Inch.

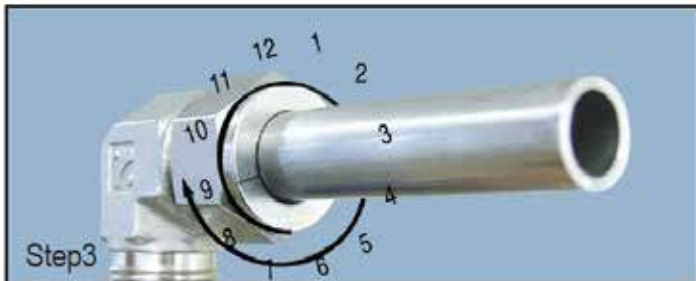
**Step 1** • Fully insert the tube into the fitting until it bottoms out against the shoulder of the fitting. Make sure the nut is finger-tight.



**Step 2** • Mark the nut at the 6 o'clock position before beginning to tighten.



**Step 3** • Using a wrench on both the fitting body and the nut, tighten the nut 1-1/4 turns until your mark reaches the 9 o'clock position.



**Note:** for 1/16", 1/8", and 3/16", 2, 3, and 4mm, fittings, Tighten only 3/4 of a turn to the 3 o'clock position.

## **Materials**

The standard material for all **SUPERLOK®** fittings and valves is:

316L Stainless Steel.

Other materials available:

|               |                 |
|---------------|-----------------|
| Incoloy®, 825 | Duplex, 2205    |
| Inconel, 600  | Monel, 400      |
| Brass         | Hastelloy C-276 |

(Other specialized materials may be available. Call for more information.)

## **Compatibility**

**SUPERLOK®** tube fittings are manufactured to be interchangeable with all other major brands that are held to the same strict manufacturing practices and tolerances. If possible, use only **SUPERLOK®** to guarantee system quality.

## **Gaugeability**

On initial Installation, the Superlok Inspection Gauge assures the installer or inspector that a fitting has been sufficiently tightened.

Position the inspection gauge next to the gap between the nut and body.

• If the gauge will not enter the gap, the fitting is sufficiently tightened



• If the gauge will enter the gap, additional tightening is required.







## SUPERLOK® *i*-Fitting

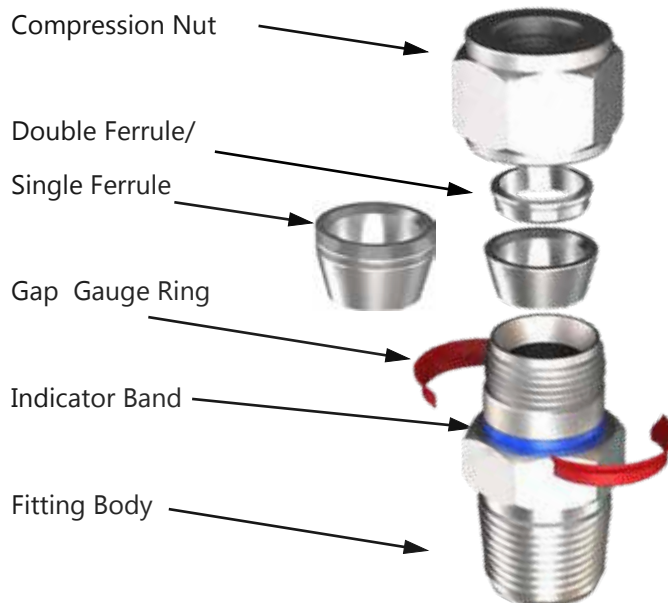
Superlok has created the world's safest tube fittings and valves by installing a self-measuring gap gauge on each tube fitting and compression end valve. This patented innovation ends leaks that are caused by improper tightening procedures, and from the failure to check the installation with a gap gauge, which all other manufacturers require.

Superlok i-Fitting's® leak-free technology is backed up with a lifetime guarantee against leaks or failures! An additional patented feature includes a contrasting blue indicator band on each fitting that is revealed when a fitting is installed correctly. This band allows users to easily confirm which fittings in a system have or have not been tightened. Install fittings with simplicity, ease and a perfect connection every time with Superlok!



### *i*-Fitting **Features and Benefits**

- Leak-free technology backed by a lifetime warranty
- Built-in gap gauge and confirmation indicator ring installed on all i-Fittings
- Interchangeable with all major brands
- Available in double or single ferrule



### **SUPERLOK® Lifetime Warranty**

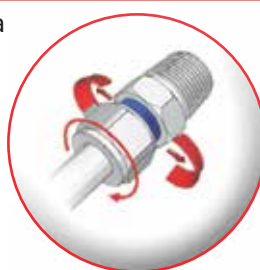
Mako Products warrants that **SUPERLOK®** Tube Fittings shall be free from defects in material and workmanship for the life of the product. (See page 38 for more detail.)

### **SUPERLOK®** *i*-Fitting **Installation**

1. Fully insert tube into fitting until it bottoms out against the shoulder of the fitting and hand tighten the nut.



2. Tighten with a wrench until the red gap gauge rings pop off (1-1/4 turns).



3. The blue indicator band is revealed confirming a perfect compression and seal.





# **Tube Fitting**

## Pressure Rating

The pressure rating for all tube fittings is only determined by the tubing used in the application. The weak point in all tube fitting processes is the tubing itself due to the fact that the fitting wall is thicker than all applicable tubing variations. Superlok has done many burst pressure tests and all results show the tube bursting before the fitting or ferrule failure. There are no tube fitting manufacturers to our knowledge that publish or advertise pressure ratings for their tube fittings and only publish a tube working pressure chart as seen below.

| Fitting Body Ratings |        |
|----------------------|--------|
| Size                 | PSI    |
| 1/16"                | 12,000 |
| 1/8"                 | 10,900 |
| 1/4"                 | 10,200 |
| 3/8"                 | 6,500  |
| 1/2"                 | 6,700  |
| 3/4"                 | 5,800  |
| 1"                   | 4,700  |

( All Pressures are in PSI unless otherwise stated )

(316 Stainless NPT )

| Tube O.D<br>(Inch) | Tube Wall Thickness (Inch) |       |       |       |        |       |        |        |        |       |       |       |       |
|--------------------|----------------------------|-------|-------|-------|--------|-------|--------|--------|--------|-------|-------|-------|-------|
|                    | 0.010                      | 0.012 | 0.014 | 0.016 | 0.020  | 0.028 | 0.035  | 0.049  | 0.065  | 0.083 | 0.095 | 0.109 | 0.120 |
| 1/16               | 5,600                      | 6,800 | 8,100 | 9,400 | 12,000 |       |        |        |        |       |       |       |       |
| 1/8                |                            |       |       |       |        | 8,500 | 10,900 |        |        |       |       |       |       |
| 3/16               |                            |       |       |       |        | 5,400 | 7,000  | 10,200 |        |       |       |       |       |
| 1/4                |                            |       |       |       |        | 4,000 | 5,100  | 7,500  | 10,200 |       |       |       |       |
| 5/16               |                            |       |       |       |        |       | 4,000  | 5,800  | 8,000  |       |       |       |       |
| 3/8                |                            |       |       |       |        |       | 3,300  | 4,800  | 6,500  |       |       |       |       |
| 1/2                |                            |       |       |       |        |       | 2,600  | 3,700  | 5,100  | 6,700 |       |       |       |
| 5/8                |                            |       |       |       |        |       |        | 2,900  | 4,000  | 5,200 | 6,000 |       |       |
| 3/4                |                            |       |       |       |        |       |        | 2,400  | 3,300  | 4,200 | 4,900 | 5,800 |       |
| 7/8                |                            |       |       |       |        |       |        | 2,000  | 2,800  | 3,600 | 4,200 | 4,800 |       |
| 1                  |                            |       |       |       |        |       |        |        | 2,400  | 3,100 | 3,600 | 4,200 | 4,700 |

Multiply pressure by .80 for welded tube pressure rating.

Pressure stated is working pressure at -20° F ~ 100° F

316 SS & 304 SS / ASTM A 269-ASTM A269-ASTM A213

- Allowable stress value between -20°F and 100°F (-28.9°C ~ 37°C) is 19,500 PSI
- Safety factor is 4 (Ultimate tensile strength is 75,000 PSI)
- The above data are based on the minimum wall thickness and the maximum O.D. allowed by and under the standard of ASTM A269.



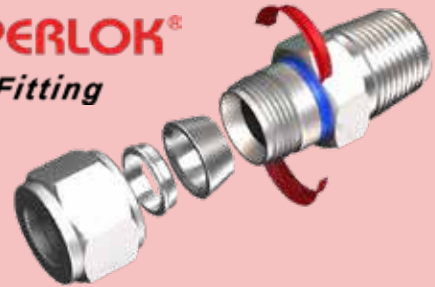
# SUPERLOK TUBE FITTINGS



- Leak-free technology backed by a lifetime warranty
- Built-in gap gauge installed on all i-Fitting products
- Interchangeable with all major brands
- Available in double or single ferrule.

## THE INDUSTRY GAME CHANGER!

**SUPERLOK®**  
*i-Fitting*



Standard Material: 316L Stainless Steel  
For the full list of materials available, see Page 5



## SUI

Union



Connects Tubing

| Part No.   | Tube O.D.  |
|------------|------------|
| Fractional | Inch       |
| SU-1       | 1/16       |
| SU-2       | 1/8        |
| SU-3       | 3/16       |
| SUI-4      | 1/4        |
| SUI-5      | 5/16       |
| SUI-6      | 3/8        |
| SUI-8      | 1/2        |
| SUI-10     | 5/8        |
| SUI-12     | 3/4        |
| SUI-14     | 7/8        |
| SUI-16     | 1          |
| SU-20      | 1-1/4      |
| SU-24      | 1-1/2      |
| SU-32      | 2          |
| Metric     | Millimeter |
| SU-2M      | 2mm        |

## SUI - Continued

|         |      |
|---------|------|
| SU-3M   | 3mm  |
| SU-4M   | 4mm  |
| SUI-6M  | 6mm  |
| SUI-8M  | 8mm  |
| SUI-10M | 10mm |
| SUI-12M | 12mm |
| SU-15M  | 15mm |
| SUI-16M | 16mm |
| SUI-18M | 18mm |
| SUI-20M | 20mm |
| SU-22M  | 22mm |
| SUI-25M | 25mm |

## SBHUI

Bulkhead Union



Connects Tubing

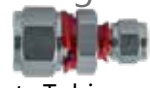
| Part No.   | Tube O.D. |
|------------|-----------|
| Fractional | Inch      |
| SBHU-1     | 1/16      |

## SBHUI - Continued

| SBHU-2    | 1/8        |
|-----------|------------|
| SBHU-3    | 3/16       |
| SBHUI-4   | 1/4        |
| SBHUI-5   | 5/16       |
| SBHUI-6   | 3/8        |
| SBHUI-8   | 1/2        |
| SBHUI-10  | 5/8        |
| SBHUI-12  | 3/4        |
| SBHUI-14  | 7/8        |
| SBHUI-16  | 1          |
| Metric    | Millimeter |
| SBHU-3M   | 3mm        |
| SBHU-4M   | 4mm        |
| SBHUI-6M  | 6mm        |
| SBHUI-8M  | 8mm        |
| SBHUI-10M | 10mm       |
| SBHUI-12M | 12mm       |
| SBHU-15M  | 15mm       |
| SBHUI-16M | 16mm       |
| SBHUI-18M | 18mm       |
| SBHUI-20M | 20mm       |
| SBHU-22M  | 22mm       |
| SBHUI-25M | 25mm       |

## SRUI

Reducing Union



Connects Tubing

| Part No.   | Tube O.D. | Tube O.D. |
|------------|-----------|-----------|
| Fractional | Inch      | Inch      |
| SRU-2-1    | 1/8       | 1/16      |
| SRU-3-2    | 3/16      | 1/8       |
| SRUI-4-2   | 1/4       | 1/8       |
| SRUI-4-3   | 1/4       | 3/16      |
| SRUI-5-2   | 5/16      | 1/8       |
| SRUI-5-4   | 5/16      | 1/4       |
| SRUI-6-2   | 3/8       | 1/8       |
| SRUI-6-4   | 3/8       | 1/4       |
| SRUI-6-5   | 3/8       | 5/16      |
| SRUI-8-2   | 1/2       | 1/8       |
| SRUI-8-4   | 1/2       | 1/4       |
| SRUI-8-6   | 1/2       | 3/8       |
| SRUI-10-6  | 5/8       | 3/8       |
| SRUI-10-8  | 5/8       | 1/2       |
| SRUI-12-4  | 3/4       | 1/4       |
| SRUI-12-6  | 3/4       | 3/8       |
| SRUI-12-8  | 3/4       | 1/2       |

| SRUI - Continued |      |      |
|------------------|------|------|
| SRUI-12-10       | 3/4  | 5/8  |
| SRUI-16-8        | 1    | 1/2  |
| SRUI-16-12       | 1    | 3/4  |
| Metric           | MM   | MM   |
| SRUI-6M-3M       | 6mm  | 3mm  |
| SRUI-6M-4M       | 6mm  | 4mm  |
| SRUI-8M-6M       | 8mm  | 6mm  |
| SRUI-10M-6M      | 10mm | 6mm  |
| SRUI-10M-8M      | 10mm | 8mm  |
| SRUI-12M-6M      | 12mm | 6mm  |
| SRUI-12M-8M      | 12mm | 8mm  |
| SRUI-12M-10M     | 12mm | 10mm |
| SRUI-16M-12M     | 16mm | 12mm |
| SRUI-25M-18M     | 25mm | 18mm |
| SRUI-25M-20M     | 25mm | 20mm |
| Adapter          | Inch | MM   |
| SRU-2-3M         | 1/8  | 3mm  |
| SRU-2-4M         | 1/8  | 4mm  |
| SRUI-2-6M        | 1/8  | 6mm  |
| SRUI-2-10M       | 1/8  | 10mm |
| SRUI-4-4M        | 1/4  | 4mm  |
| SRUI-4-6M        | 1/4  | 6mm  |
| SRUI-4-8M        | 1/4  | 8mm  |
| SRUI-4-10M       | 1/4  | 10mm |
| SRUI-5-6M        | 5/16 | 6mm  |
| SRUI-5-10M       | 5/16 | 10mm |
| SRUI-5-12M       | 5/16 | 12mm |
| SRUI-6-10M       | 3/8  | 10mm |
| SRUI-6-12M       | 3/8  | 12mm |
| SRUI-8-12M       | 1/2  | 12mm |
| SRUI-8-15M       | 1/2  | 15mm |
| SRUI-10-16M      | 5/8  | 16mm |
| SRUI-12-18M      | 3/4  | 18mm |
| SRUI-12-20M      | 3/4  | 20mm |
| SRUI-16-20M      | 1    | 20mm |
| SRUI-16-25M      | 1    | 25mm |

## SBHRUI

Bulkhead Reducing Union



Connects Tubing

| Part No.   | Tube O.D. | Tube O.D. |
|------------|-----------|-----------|
| Fractional | Inch      | Inch      |
| SBHRUI-4-2 | 1/4       | 1/8       |
| SBHRUI-6-4 | 3/8       | 1/4       |
| SBHRUI-8-4 | 1/2       | 1/4       |

## SMCI

Male Connector



Connects Tubing to Female Tapered Thread

| Part No.    | Tube O.D. | Thread Type |
|-------------|-----------|-------------|
| Fractional  | Inch      | NPT         |
| SMC-1-1N    | 1/16      | 1/16        |
| SMC-1-2N    | 1/16      | 1/8         |
| SMC-2-2N    | 1/8       | 1/8         |
| SMC-2-4N    | 1/8       | 1/4         |
| SMC-2-6N    | 1/8       | 3/8         |
| SMC-2-8N    | 1/8       | 1/2         |
| SMC-3-2N    | 3/16      | 1/8         |
| SMC-3-4N    | 3/16      | 1/4         |
| SMCI-4-2N   | 1/4       | 1/8         |
| SMCI-4-4N   | 1/4       | 1/4         |
| SMCI-4-6N   | 1/4       | 3/8         |
| SMCI-4-8N   | 1/4       | 1/2         |
| SMCI-4-12N  | 1/4       | 3/4         |
| SMCI-5-2N   | 5/16      | 1/8         |
| SMCI-5-4N   | 5/16      | 1/4         |
| SMCI-5-6N   | 5/16      | 3/8         |
| SMCI-6-2N   | 3/8       | 1/8         |
| SMCI-6-4N   | 3/8       | 1/4         |
| SMCI-6-6N   | 3/8       | 3/8         |
| SMCI-6-8N   | 3/8       | 1/2         |
| SMCI-6-12N  | 3/8       | 3/4         |
| SMCI-8-2N   | 1/2       | 1/8         |
| SMCI-8-4N   | 1/2       | 1/4         |
| SMCI-8-6N   | 1/2       | 3/8         |
| SMCI-8-8N   | 1/2       | 1/2         |
| SMCI-8-12N  | 1/2       | 3/4         |
| SMCI-8-16N  | 1/2       | 1           |
| SMCI-10-6N  | 5/8       | 3/8         |
| SMCI-10-8N  | 5/8       | 1/2         |
| SMCI-10-12N | 5/8       | 3/4         |
| SMCI-12-8N  | 3/4       | 1/2         |
| SMCI-12-12N | 3/4       | 3/4         |
| SMCI-12-16N | 3/4       | 1           |
| SMCI-14-12N | 7/8       | 3/4         |
| SMCI-14-16N | 7/8       | 1           |
| SMCI-16-8N  | 1         | 3/8         |
| SMCI-16-12N | 1         | 3/4         |
| SMCI-16-16N | 1         | 1           |
| SMC-20-16N  | 1-1/4     | 1           |
| SMC-20-20N  | 1-1/4     | 1-1/4       |
| SMC-24-24N  | 1-1/2     | 1-1/2       |
| SMC-32-32N  | 2         | 2           |

| SMC - Continued |      |       |
|-----------------|------|-------|
| Metric          | MM   | NPT   |
| SMC-2M-2N       | 2mm  | 1/8   |
| SMC-3M-2N       | 3mm  | 1/8   |
| SMC-3M-4N       | 3mm  | 1/4   |
| SMC-4M-2N       | 4mm  | 1/8   |
| SMC-4M-4N       | 4mm  | 1/4   |
| SMCI-6M-2N      | 6mm  | 1/8   |
| SMCI-6M-4N      | 6mm  | 1/4   |
| SMCI-6M-6N      | 6mm  | 3/8   |
| SMCI-6M-8N      | 6mm  | 1/2   |
| SMCI-8M-2N      | 8mm  | 1/8   |
| SMCI-8M-4N      | 8mm  | 1/4   |
| SMCI-8M-6N      | 8mm  | 3/8   |
| SMCI-8M-8N      | 8mm  | 1/2   |
| SMCI-10M-2N     | 10mm | 1/8   |
| SMCI-10M-4N     | 10mm | 1/4   |
| SMCI-10M-6N     | 10mm | 3/8   |
| SMCI-10M-8N     | 10mm | 1/2   |
| SMCI-12M-2N     | 12mm | 1/8   |
| SMCI-12M-4N     | 12mm | 1/4   |
| SMCI-12M-6N     | 12mm | 3/8   |
| SMCI-12M-8N     | 12mm | 1/2   |
| SMCI-12M-12N    | 12mm | 3/4   |
| SMC-14M-4N      | 14mm | 1/4   |
| SMC-14M-6N      | 14mm | 3/8   |
| SMC-14M-8N      | 14mm | 1/2   |
| SMCI-16M-6N     | 16mm | 3/8   |
| SMCI-16M-8N     | 16mm | 1/2   |
| SMCI-16M-12N    | 16mm | 3/4   |
| SMCI-18M-8N     | 18mm | 1/2   |
| SMCI-18M-12N    | 18mm | 3/4   |
| SMCI-20M-8N     | 20mm | 1/2   |
| SMCI-20M-12N    | 20mm | 3/4   |
| SMC-22M-12N     | 22mm | 3/4   |
| SMC-22M-16N     | 22mm | 1     |
| SMCI-25M-12N    | 25mm | 3/4   |
| SMCI-25M-16N    | 25mm | 1     |
| SMC-28M-16N     | 28mm | 1     |
| SMC-28M-20N     | 28mm | 1-1/4 |
| SMC-30M-20N     | 30mm | 1-1/4 |
| SMC-32M-20N     | 32mm | 1-1/4 |
| SMC-38M-24N     | 38mm | 1-1/2 |

| SMCI - Continued |      |          |
|------------------|------|----------|
| Fractional       | Inch | ISO Tap. |
| SMC-2-2R         | 1/8  | 1/8      |
| SMC-2-4R         | 1/8  | 1/4      |
| SMCI-4-2R        | 1/4  | 1/8      |
| SMCI-4-4R        | 1/4  | 1/4      |
| SMCI-4-6R        | 1/4  | 3/8      |
| SMCI-4-8R        | 1/4  | 1/2      |
| SMCI-5-2R        | 5/16 | 1/8      |
| SMCI-5-4R        | 5/16 | 1/4      |
| SMCI-6-2R        | 3/8  | 1/8      |
| SMCI-6-4R        | 3/8  | 1/4      |
| SMCI-6-6R        | 3/8  | 3/8      |
| SMCI-6-8R        | 3/8  | 1/2      |
| SMCI-8-4R        | 1/2  | 1/4      |
| SMCI-8-6R        | 1/2  | 3/8      |
| SMCI-8-8R        | 1/2  | 1/2      |
| SMCI-8-12R       | 1/2  | 3/4      |
| SMCI-12-12R      | 3/4  | 3/4      |
| SMCI-16-16R      | 1    | 1        |
| Metric           | MM   | ISO Tap. |
| SMC-2M-2R        | 2mm  | 1/8      |
| SMC-3M-2R        | 3mm  | 1/8      |
| SMC-3M-4R        | 3mm  | 1/4      |
| SMC-4M-2R        | 4mm  | 1/8      |
| SMC-4M-4R        | 4mm  | 1/4      |
| SMCI-6M-2R       | 6mm  | 1/8      |
| SMCI-6M-4R       | 6mm  | 1/4      |
| SMCI-6M-6R       | 6mm  | 3/8      |
| SMCI-6M-8R       | 6mm  | 1/2      |
| SMCI-8M-2R       | 8mm  | 1/8      |
| SMCI-8M-4R       | 8mm  | 1/4      |
| SMCI-8M-6R       | 8mm  | 3/8      |
| SMCI-8M-8R       | 8mm  | 1/2      |
| SMCI-10M-2R      | 10mm | 1/8      |
| SMCI-10M-4R      | 10mm | 1/4      |
| SMCI-10M-6R      | 10mm | 3/8      |
| SMCI-10M-8R      | 10mm | 1/2      |
| SMCI-12M-4R      | 12mm | 1/4      |
| SMCI-12M-6R      | 12mm | 3/8      |
| SMCI-12M-8R      | 12mm | 1/2      |
| SMCI-12M-12R     | 12mm | 3/4      |
| SMC-15M-8R       | 15mm | 1/2      |

### Bore-Through Fittings Available

Superlok bore-through fittings allow tubing or other equipment to pass completely through. This is done to accommodate thermocouples and dip tubes that need to be set to a specific depth.

| SMCI - Continued |      |       |
|------------------|------|-------|
| SMCI-16M-4R      | 16mm | 1/4   |
| SMCI-16M-6R      | 16mm | 3/8   |
| SMCI-16M-8R      | 16mm | 1/2   |
| SMCI-16M-12R     | 16mm | 3/4   |
| SMCI-18M-8R      | 18mm | 1/2   |
| SMCI-18M-12R     | 18mm | 3/4   |
| SMCI-20M-8R      | 20mm | 1/2   |
| SMCI-20M-12R     | 20mm | 3/4   |
| SMC-22M-12R      | 22mm | 3/4   |
| SMC-22M-16R      | 22mm | 1     |
| SMCI-25M-12R     | 25mm | 3/4   |
| SMCI-25M-16R     | 25mm | 1     |
| SMC-28M-16R      | 28mm | 1     |
| SMC-28M-20R      | 28mm | 1-1/4 |
| SMC-30M-20R      | 30mm | 1-1/4 |
| SMC-32M-20R      | 32mm | 1-1/4 |
| SMC-38M-24R      | 38mm | 1-1/2 |

| SMCI-GM - Continued |      |     |
|---------------------|------|-----|
| SMCI-10M-6GM        | 10mm | 3/8 |
| SMCI-10M-8GM        | 10mm | 1/2 |
| SMCI-12M-4GM        | 12mm | 1/4 |
| SMCI-12M-6GM        | 12mm | 3/8 |
| SMCI-12M-8GM        | 12mm | 1/2 |
| SMCI-12M-12GM       | 12mm | 3/4 |
| SMC-15M-8GM         | 15mm | 1/2 |
| SMCI-16M-6GM        | 16mm | 3/8 |
| SMCI-16M-8GM        | 16mm | 1/2 |
| SMCI-18M-8GM        | 18mm | 1/2 |
| SMCI-18M-12GM       | 18mm | 3/4 |
| SMCI-20M-8GM        | 20mm | 1/2 |
| SMCI-20M-12GM       | 20mm | 3/4 |
| SMC-22M-12GM        | 22mm | 3/4 |
| SMC-22M-16GM        | 22mm | 1   |
| SMCI-25M-12GM       | 25mm | 3/4 |
| SMCI-25M-16GM       | 25mm | 1   |

| SGMCI - Continued |      |     |
|-------------------|------|-----|
| SGMCI-10M-6G      | 10mm | 3/8 |
| SGMCI-10M-8G      | 10mm | 1/2 |
| SGMCI-12M-4G      | 12mm | 1/4 |
| SGMCI-12M-6G      | 12mm | 3/8 |
| SGMCI-12M-8G      | 12mm | 1/2 |
| SGMCI-12M-12G     | 12mm | 3/4 |
| SGMCI-16M-6G      | 16mm | 3/8 |
| SGMCI-16M-8G      | 16mm | 1/2 |
| SGMCI-18M-8G      | 18mm | 1/2 |
| SGMCI-18M-12G     | 18mm | 3/4 |
| SGMCI-20M-8G      | 20mm | 1/2 |
| SGMCI-20M-12G     | 20mm | 3/4 |
| SGMC-22M-12G      | 22mm | 3/4 |
| SGMC-22M-16G      | 22mm | 1   |
| SGMCI-25M-12G     | 25mm | 3/4 |
| SGMCI-25M-16G     | 25mm | 1   |

| SFCI - Continued |      |          |
|------------------|------|----------|
| SFCI-16-12N      | 1    | 3/4      |
| SFCI-16-16N      | 1    | 1        |
| Metric           | MM   | ISO Tap. |
| SFC-3M-2R        | 3mm  | 1/8      |
| SFC-3M-4R        | 3mm  | 1/4      |
| SFC-4M-2R        | 4mm  | 1/8      |
| SFCI-6M-2R       | 6mm  | 1/8      |
| SFCI-6M-4R       | 6mm  | 1/4      |
| SFCI-6M-6R       | 6mm  | 3/8      |
| SFCI-6M-8R       | 6mm  | 1/2      |
| SFCI-8M-2R       | 8mm  | 1/8      |
| SFCI-8M-4R       | 8mm  | 1/4      |
| SFCI-8M-6R       | 8mm  | 3/8      |
| SFCI-8M-8R       | 8mm  | 1/2      |
| SFCI-10M-2R      | 10mm | 1/8      |
| SFCI-10M-4R      | 10mm | 1/4      |
| SFCI-10M-6R      | 10mm | 3/8      |
| SFCI-10M-8R      | 10mm | 1/2      |
| SFCI-12M-2R      | 12mm | 1/8      |
| SFCI-12M-4R      | 12mm | 1/4      |
| SFCI-12M-6R      | 12mm | 3/8      |
| SFCI-12M-8R      | 12mm | 1/2      |
| SFCI-12M-12R     | 12mm | 3/4      |
| SFC-15M-8R       | 15mm | 1/2      |
| SFCI-16M-8R      | 16mm | 1/2      |
| SFCI-20M-8R      | 20mm | 1/2      |
| SFCI-20M-12R     | 20mm | 3/4      |
| SFC-22M-12R      | 22mm | 3/4      |
| SFC-22M-16R      | 22mm | 1        |
| SFCI-25M-12R     | 25mm | 3/4      |
| SFCI-25M-16R     | 25mm | 1        |

## SMCI-GM

Male Connector  
Metal Gasket Seal



Connects Metric Tubes to  
Female ISO Parallel

| Part No.     | Tube<br>O.D. | Thread<br>Type |
|--------------|--------------|----------------|
| Metric       | MM           | ISO Par.       |
| SMC-3M-2GM   | 3mm          | 1/8            |
| SMC-3M-4GM   | 3mm          | 1/4            |
| SMC-4M-2GM   | 4mm          | 1/8            |
| SMCI-6M-2GM  | 6mm          | 1/8            |
| SMCI-6M-4GM  | 6mm          | 1/4            |
| SMCI-6M-6GM  | 6mm          | 3/8            |
| SMCI-6M-8GM  | 6mm          | 1/2            |
| SMCI-8M-2GM  | 8mm          | 1/8            |
| SMCI-8M-4GM  | 8mm          | 1/4            |
| SMCI-8M-6GM  | 8mm          | 3/8            |
| SMCI-8M-8GM  | 8mm          | 1/2            |
| SMCI-10M-4GM | 10mm         | 1/4            |

## SGMCI

Male Connector  
Bonded Washer Seal



Connects Metric Tubes to  
Female ISO Parallel

| Part No.     | Tube<br>O.D. | Thread<br>Type |
|--------------|--------------|----------------|
| Metric       | MM           | ISO Par.       |
| SGMC-3M-2G   | 3mm          | 1/8            |
| SGMC-3M-4G   | 3mm          | 1/4            |
| SGMC-4M-2G   | 4mm          | 1/8            |
| SGMCI-6M-2G  | 6mm          | 1/8            |
| SGMCI-6M-4G  | 6mm          | 1/4            |
| SGMCI-6M-6G  | 6mm          | 3/8            |
| SGMCI-6M-8G  | 6mm          | 1/2            |
| SGMCI-8M-2G  | 8mm          | 1/8            |
| SGMCI-8M-4G  | 8mm          | 1/4            |
| SGMCI-8M-6G  | 8mm          | 3/8            |
| SGMCI-8M-8G  | 8mm          | 1/2            |
| SGMCI-10M-4G | 10mm         | 1/4            |

## SFCI

Female Connector



Connects Tubing to  
Male Tapered Thread

| Part No.    | Tube<br>O.D. | Thread<br>Type |
|-------------|--------------|----------------|
| Fractional  | Inch         | NPT            |
| SFC-2-2N    | 1/8          | 1/8            |
| SFC-2-4N    | 1/8          | 1/4            |
| SFC-3-2N    | 3/16         | 1/8            |
| SFCI-4-2N   | 1/4          | 1/8            |
| SFCI-4-4N   | 1/4          | 1/4            |
| SFCI-4-6N   | 1/4          | 3/8            |
| SFCI-4-8N   | 1/4          | 1/2            |
| SFCI-5-2N   | 5/16         | 1/8            |
| SFCI-5-4N   | 5/16         | 1/4            |
| SFCI-6-2N   | 3/8          | 1/8            |
| SFCI-6-4N   | 3/8          | 1/4            |
| SFCI-6-6N   | 3/8          | 3/8            |
| SFCI-6-8N   | 3/8          | 1/2            |
| SFCI-6-12N  | 3/8          | 3/4            |
| SFCI-8-4N   | 1/2          | 1/4            |
| SFCI-8-6N   | 1/2          | 3/8            |
| SFCI-8-8N   | 1/2          | 1/2            |
| SFCI-8-12N  | 1/2          | 3/4            |
| SFCI-10-6N  | 5/8          | 3/8            |
| SFCI-10-8N  | 5/8          | 1/2            |
| SFCI-12-8N  | 3/4          | 1/2            |
| SFCI-12-12N | 3/4          | 3/4            |
| SFCI-14-12N | 7/8          | 3/4            |

## SGCI

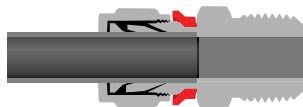
Gauge Connector



Connects Tubing to  
Male ISO Parallel

| Part No.   | Tube<br>O.D. | Thread<br>Type |
|------------|--------------|----------------|
| Fractional | Inch         | ISO Par.       |
| SGCI-4-4G  | 1/4          | 1/4            |
| SGCI-4-6G  | 1/4          | 3/8            |
| SGCI-4-8G  | 1/4          | 1/2            |
| SGCI-5-4G  | 5/16         | 1/4            |
| SGCI-5-8G  | 5/16         | 1/2            |
| SGCI-6-4G  | 3/8          | 1/4            |
| SGCI-6-6G  | 3/8          | 3/8            |
| SGCI-6-8G  | 3/8          | 1/2            |

Standard



Bore-Through





| SGCI - Continued |      |          |
|------------------|------|----------|
| SGCI-8-4G        | 1/2  | 1/4      |
| SGCI-8-6G        | 1/2  | 3/8      |
| SGCI-8-8G        | 1/2  | 1/2      |
| Metric           | MM   | ISO Par. |
| SGC-3M-4G        | 3mm  | 1/4      |
| SGCI-6M-4G       | 6mm  | 1/4      |
| SGCI-6M-6G       | 6mm  | 3/8      |
| SGCI-6M-8G       | 6mm  | 1/2      |
| SGCI-8M-4G       | 8mm  | 1/4      |
| SGCI-8M-6G       | 8mm  | 3/8      |
| SGCI-8M-8G       | 8mm  | 1/2      |
| SGCI-10M-4G      | 10mm | 1/4      |
| SGCI-10M-6G      | 10mm | 3/8      |
| SGCI-10M-8G      | 10mm | 1/2      |
| SGCI-12M-4G      | 12mm | 1/4      |
| SGCI-12M-6G      | 12mm | 3/8      |
| SGCI-12M-8G      | 12mm | 1/2      |
| SGCI-20M-8G      | 20mm | 1/2      |
| SGC-22M-8G       | 22mm | 1/2      |

## SMCB

Bulkhead Male Connector



Connects Tubing to Female Tapered Thread

| Part No.    | Tube O.D. | Thread Type |
|-------------|-----------|-------------|
| Fractional  | Inch      | NPT         |
| SMCB-2-2N   | 1/8       | 1/8         |
| SMCB-4-2N   | 1/4       | 1/8         |
| SMCB-4-4N   | 1/4       | 1/4         |
| SMCB-6-4N   | 3/8       | 1/4         |
| SMCB-6-6N   | 3/8       | 3/8         |
| SMCB-6-8N   | 3/8       | 1/2         |
| SMCB-8-6N   | 1/2       | 3/8         |
| SMCB-8-8N   | 1/2       | 1/2         |
| SMCB-12-12N | 3/4       | 3/4         |
| SMCB-16-16N | 1         | 1           |

## SMEI

Male Elbow



Connects Tubing to Female Tapered Thread

| Part No.   | Tube O.D. | Thread Type |
|------------|-----------|-------------|
| Fractional | Inch      | NPT         |
| SMEI-2-2N  | 1/8       | 1/8         |
| SMEI-2-4N  | 1/8       | 1/4         |
| SMEI-3-2N  | 3/16      | 1/8         |
| SMEI-3-4N  | 3/16      | 1/4         |
| SMEI-4-2N  | 1/4       | 1/8         |

SMEI - Continued on next Column

## SFCB

Bulkhead Female Connector



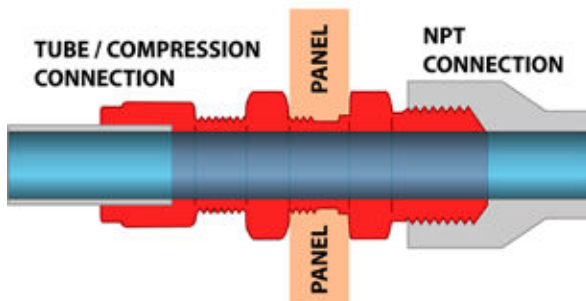
Connects Tubing to Male Tapered Thread

| Part No.    | Tube O.D. | Thread Type |
|-------------|-----------|-------------|
| Fractional  | Inch      | NPT         |
| SFCB-2-2N   | 1/8       | 1/8         |
| SFCB-4-2N   | 1/4       | 1/8         |
| SFCB-4-4N   | 1/4       | 1/4         |
| SFCB-6-4N   | 3/8       | 1/4         |
| SFCB-8-6N   | 1/2       | 3/8         |
| SFCB-8-8N   | 1/2       | 1/2         |
| SFCB-12-12N | 3/4       | 3/4         |
| Metric      | MM        | NPT         |
| SMCB-8-6N   | 1/2       | 3/8         |
| SMCB-8-8N   | 1/2       | 1/2         |
| SMCB-12-12N | 3/4       | 3/4         |
| SMCB-16-16N | 1         | 1           |

| SMEI - Continued |       |          |
|------------------|-------|----------|
| SMEI-4-4N        | 1/4   | 1/4      |
| SMEI-4-6N        | 1/4   | 3/8      |
| SMEI-4-8N        | 1/4   | 1/2      |
| SMEI-5-2N        | 5/16  | 1/8      |
| SMEI-5-4N        | 5/16  | 1/4      |
| SMEI-5-6N        | 5/16  | 3/8      |
| SMEI-6-2N        | 3/8   | 1/8      |
| SMEI-6-4N        | 3/8   | 1/4      |
| SMEI-6-6N        | 3/8   | 3/8      |
| SMEI-6-8N        | 3/8   | 1/2      |
| SMEI-6-12N       | 3/8   | 3/4      |
| SMEI-8-4N        | 1/2   | 1/4      |
| SMEI-8-6N        | 1/2   | 3/8      |
| SMEI-8-8N        | 1/2   | 1/2      |
| SMEI-8-12N       | 1/2   | 3/4      |
| SMEI-10-6N       | 5/8   | 3/8      |
| SMEI-10-8N       | 5/8   | 1/2      |
| SMEI-10-12N      | 5/8   | 3/4      |
| SMEI-12-8N       | 3/4   | 1/2      |
| SMEI-12-12N      | 3/4   | 3/4      |
| SMEI-14-12N      | 7/8   | 3/4      |
| SMEI-16-12N      | 1     | 3/4      |
| SMEI-16-16N      | 1     | 1        |
| SMEI-20-20N      | 1-1/4 | 1-1/4    |
| SMEI-24-24N      | 1-1/2 | 1-1/2    |
| SMEI-32-32N      | 2     | 2        |
| Fractional       | Inch  | ISO Tap. |
| SMEI-4-2R        | 1/4   | 1/8      |
| SMEI-4-4R        | 1/4   | 1/4      |
| SMEI-4-6R        | 1/4   | 3/8      |
| SMEI-4-8R        | 1/4   | 1/2      |
| SMEI-5-4R        | 5/16  | 1/4      |
| SMEI-6-4R        | 3/8   | 1/4      |
| SMEI-6-6R        | 3/8   | 3/8      |
| SMEI-8-6R        | 1/2   | 3/8      |
| SMEI-8-8R        | 1/2   | 1/2      |
| Metric           | MM    | NPT      |
| SMEI-3M-2N       | 3mm   | 1/8      |
| SMEI-3M-4N       | 3mm   | 1/4      |
| SMEI-4M-2N       | 4mm   | 1/8      |
| SMEI-4M-4N       | 4mm   | 1/4      |
| SMEI-6M-2N       | 6mm   | 1/8      |
| SMEI-6M-4N       | 6mm   | 1/4      |
| SMEI-6M-6N       | 6mm   | 3/8      |
| SMEI-6M-8N       | 6mm   | 1/2      |
| SMEI-8M-2N       | 8mm   | 1/8      |
| SMEI-8M-4N       | 8mm   | 1/4      |
| SMEI-8M-6N       | 8mm   | 3/8      |
| SMEI-8M-8N       | 8mm   | 1/2      |
| SMEI-10M-2N      | 10mm  | 1/8      |
| SMEI-10M-4N      | 10mm  | 1/4      |

| SMEI - Continued |      |          |
|------------------|------|----------|
| SMEI-10M-6N      | 10mm | 3/8      |
| SMEI-10M-8N      | 10mm | 1/2      |
| SMEI-12M-4N      | 12mm | 1/4      |
| SMEI-12M-6N      | 12mm | 3/8      |
| SMEI-12M-8N      | 12mm | 1/2      |
| SMEI-12M-12N     | 12mm | 3/4      |
| SMEI-16M-6N      | 16mm | 3/8      |
| SMEI-16M-8N      | 16mm | 1/2      |
| SMEI-16M-12N     | 16mm | 3/4      |
| SMEI-18M-8N      | 18mm | 1/2      |
| SMEI-18M-12N     | 18mm | 3/4      |
| SMEI-20M-8N      | 20mm | 1/2      |
| SMEI-20M-12N     | 20mm | 3/4      |
| SMEI-22M-12N     | 22mm | 3/4      |
| SMEI-22M-16N     | 22mm | 1        |
| SMEI-25M-12N     | 25mm | 3/4      |
| SMEI-25M-16N     | 25mm | 1        |
| SMEI-30M-20N     | 30mm | 1-1/4    |
| SMEI-32M-20N     | 32mm | 1-1/4    |
| SMEI-38M-24N     | 38mm | 1-1/2    |
| Metric           | MM   | ISO Tap. |
| SMEI-3M-2R       | 3mm  | 1/8      |
| SMEI-3M-4R       | 3mm  | 1/4      |
| SMEI-4M-2R       | 4mm  | 1/8      |
| SMEI-4M-4R       | 4mm  | 1/4      |
| SMEI-6M-2R       | 6mm  | 1/8      |
| SMEI-6M-4R       | 6mm  | 1/4      |
| SMEI-6M-6R       | 6mm  | 3/8      |
| SMEI-6M-8R       | 6mm  | 1/2      |
| SMEI-8M-2R       | 8mm  | 1/8      |
| SMEI-8M-4R       | 8mm  | 1/4      |
| SMEI-8M-6R       | 8mm  | 3/8      |
| SMEI-8M-8R       | 8mm  | 1/2      |
| SMEI-10M-4R      | 10mm | 1/4      |
| SMEI-10M-6R      | 10mm | 3/8      |
| SMEI-10M-8R      | 10mm | 1/2      |
| SMEI-12M-2R      | 12mm | 1/8      |
| SMEI-12M-4R      | 12mm | 1/4      |
| SMEI-12M-6R      | 12mm | 3/8      |
| SMEI-12M-8R      | 12mm | 1/2      |
| SMEI-12M-12R     | 12mm | 3/4      |
| SMEI-16M-6R      | 16mm | 3/8      |
| SMEI-16M-8R      | 16mm | 1/2      |
| SMEI-18M-8R      | 16mm | 1/2      |
| SMEI-18M-12R     | 18mm | 3/4      |
| SMEI-20M-8R      | 20mm | 1/2      |
| SMEI-20M-12R     | 20mm | 3/4      |
| SMEI-22M-12R     | 22mm | 3/4      |
| SMEI-22M-16R     | 22mm | 1        |
| SMEI-25M-12R     | 25mm | 3/4      |
| SMEI-25M-16R     | 25mm | 1        |

Bulkhead Installation



## SHMEI

### 45° Male Elbow



Connects Tubing to  
Female Tapered Thread

| Part No.   | Tube O.D. | Thread Type |
|------------|-----------|-------------|
| Fractional | Inch      | NPT         |
| SHMEI-4-2N | 1/4       | 1/8         |
| SHMEI-4-4N | 1/4       | 1/4         |
| SHMEI-6-2N | 3/8       | 1/8         |
| SHMEI-6-4N | 3/8       | 1/4         |
| SHMEI-6-6N | 3/8       | 3/8         |
| SHMEI-8-6N | 1/2       | 3/8         |
| SHMEI-8-8N | 1/2       | 1/2         |

## SUEI

### Union Elbow



Connects Tubing

| Part No.   | Tube O.D.  |
|------------|------------|
| Fractional | Inch       |
| SUE-1      | 1/16       |
| SUE-2      | 1/8        |
| SUE-3      | 3/16       |
| SUEI-4     | 1/4        |
| SUEI-5     | 5/16       |
| SUEI-6     | 3/8        |
| SUEI-8     | 1/2        |
| SUEI-10    | 5/8        |
| SUEI-12    | 3/4        |
| SUEI-14    | 7/8        |
| SUEI-16    | 1          |
| SUE-20     | 1-1/4      |
| SUE-24     | 1-1/2      |
| SUE-32     | 2          |
| Metric     | Millimeter |
| SUE-2M     | 2mm        |
| SUE-3M     | 3mm        |
| SUE-4M     | 4mm        |
| SUEI-6M    | 6mm        |
| SUEI-8M    | 8mm        |
| SUEI-10M   | 10mm       |
| SUEI-12M   | 12mm       |

### SUEI - Continued

|          |      |
|----------|------|
| SUE-15M  | 15mm |
| SUEI-16M | 16mm |
| SUEI-18M | 18mm |
| SUEI-20M | 20mm |
| SUE-22M  | 22mm |
| SUEI-25M | 25mm |
| SUE-28M  | 28mm |
| SUE-30M  | 30mm |
| SUE-32M  | 32mm |
| SUE-38M  | 38mm |

## SPHMEI

### 45° Positionable Male Elbow



Connects Fractional Tubes  
to Female Straight Thread

| Part No.      | Tube O.D. | Thread Type |
|---------------|-----------|-------------|
| Fractional    | Inch      | SAE/MS      |
| SPHMEI-4-4U   | 1/4       | 7/16-20     |
| SPHMEI-6-6U   | 3/8       | 9/16-18     |
| SPHMEI-8-8U   | 1/2       | 3/4-16      |
| SPHMEI-12-12U | 3/4       | 1-1/16-12   |
| SPHMEI-16-16U | 1         | 1-5/16-12   |

## SPMEI

### Positionable Male Elbow



Connects Tubing to  
Female Straight Thread

| Part No.     | Tube O.D. | Thread Type |
|--------------|-----------|-------------|
| Fractional   | Inch      | SAE/MS      |
| SPMEI-4-4U   | 1/4       | 7/16-20     |
| SPMEI-4-6U   | 1/4       | 9/16-18     |
| SPMEI-5-5U   | 5/16      | 1/2-20      |
| SPMEI-6-6U   | 3/8       | 9/16-18     |
| SPMEI-6-8U   | 3/8       | 3/4-16      |
| SPMEI-8-8U   | 1/2       | 3/4-16      |
| SPMEI-10-10U | 5/8       | 7/8-14      |
| SMEI-12-12U  | 3/4       | 1-1/16-12   |
| SPMEI-14-14U | 7/8       | 1-3/16-12   |
| SPMEI-16-16U | 1         | 1-5/16-12   |
| SPME-20-20U  | 1-1/4     | 1-5/8-12    |

### SPMEI - Continued

| SPME-24-24U   | 1-1/2 | 1-7/8-12 |
|---------------|-------|----------|
| SPME-32-32U   | 2     | 2-1/2-12 |
| Fractional    | Inch  | ISO Par. |
| SPMEI-4-2G    | 1/4   | 1/8      |
| SPMEI-4-4G    | 1/4   | 1/4      |
| SPMEI-6-4G    | 3/8   | 1/4      |
| SPMEI-6-6G    | 3/8   | 3/8      |
| SPMEI-8-4G    | 1/2   | 1/4      |
| SPMEI-8-6G    | 1/2   | 3/8      |
| SPMEI-8-8G    | 1/2   | 1/2      |
| SPMEI-10-8G   | 5/8   | 1/2      |
| SPMEI-12-8G   | 3/4   | 1/2      |
| SPMEI-12-12G  | 3/4   | 3/4      |
| SPMEI-16-12G  | 1     | 3/4      |
| SPMEI-16-16G  | 1     | 1        |
| Metric        | MM    | ISO Par. |
| SPMEI-6M-2G   | 6mm   | 1/8      |
| SPMEI-6M-4G   | 6mm   | 1/4      |
| SPMEI-8M-2G   | 8mm   | 1/8      |
| SPMEI-8M-4G   | 8mm   | 1/4      |
| SPMEI-10M-4G  | 10mm  | 1/4      |
| SPMEI-10M-6G  | 10mm  | 3/8      |
| SPMEI-12M-4G  | 12mm  | 1/4      |
| SPMEI-12M-6G  | 12mm  | 3/8      |
| SPMEI-12M-8G  | 12mm  | 1/2      |
| SPMEI-12M-12G | 12mm  | 3/4      |

## SFEI

### Female Elbow



Connects Tubing to  
Male Tapered Thread

| Part No.   | Tube O.D. | Thread Type |
|------------|-----------|-------------|
| Fractional | Inch      | NPT         |
| SFE-2-2N   | 1/8       | 1/8         |
| SFE-2-4N   | 1/8       | 1/4         |
| SFE-3-2N   | 3/16      | 1/8         |
| SFEI-4-2N  | 1/4       | 1/8         |
| SFEI-4-4N  | 1/4       | 1/4         |
| SFEI-4-6N  | 1/4       | 3/8         |
| SFEI-4-8N  | 1/4       | 1/2         |
| SFEI-5-2N  | 5/16      | 1/8         |
| SFEI-5-4N  | 5/16      | 1/4         |
| SFEI-6-2N  | 3/8       | 1/8         |
| SFEI-6-4N  | 3/8       | 1/4         |
| SFEI-6-6N  | 3/8       | 3/8         |
| SFEI-6-8N  | 3/8       | 1/2         |

### SFEI - Continued

| SFEI-8-4N   | 1/2  | 1/4 |
|-------------|------|-----|
| SFEI-8-6N   | 1/2  | 3/8 |
| SFEI-8-8N   | 1/2  | 1/2 |
| SFEI-10-6N  | 5/8  | 3/8 |
| SFEI-10-8N  | 5/8  | 1/2 |
| SFEI-12-8N  | 3/4  | 1/2 |
| SFEI-12-12N | 3/4  | 3/4 |
| SFEI-14-12N | 7/8  | 3/4 |
| SFEI-16-12N | 1    | 3/4 |
| SFEI-16-16N | 1    | 1   |
| Metric      | MM   | NPT |
| SFEI-6M-4N  | 6mm  | 1/4 |
| SFEI-6M-6N  | 6mm  | 3/8 |
| SFEI-6M-8N  | 6mm  | 1/2 |
| SFEI-8M-4N  | 8mm  | 1/4 |
| SFEI-8M-8N  | 8mm  | 1/2 |
| SFEI-10M-4N | 10mm | 1/4 |
| SFEI-10M-6N | 10mm | 3/8 |
| SFEI-10M-8N | 10mm | 1/2 |
| SFEI-12M-6N | 12mm | 3/8 |
| SFEI-12M-8N | 12mm | 1/2 |

## SUTI

### Union Tee



Connects Tubing

| Part No.   | Tube O.D.  |
|------------|------------|
| Fractional | Inch       |
| SUT-1      | 1/16       |
| SUT-2      | 1/8        |
| SUT-3      | 3/16       |
| SUTI-4     | 1/4        |
| SUTI-5     | 5/16       |
| SUTI-6     | 3/8        |
| SUTI-8     | 1/2        |
| SUTI-10    | 5/8        |
| SUTI-12    | 3/4        |
| SUTI-14    | 7/8        |
| SUTI-16    | 1          |
| SUT-20     | 1-1/4      |
| SUT-24     | 1-1/2      |
| SUT-32     | 2          |
| Metric     | Millimeter |
| SUT-2M     | 2mm        |
| SUT-3M     | 3mm        |
| SUT-4M     | 4mm        |

| SUTI - Continued |      |
|------------------|------|
| SUTI-6M          | 6mm  |
| SUTI-8M          | 8mm  |
| SUTI-10M         | 10mm |
| SUTI-12M         | 12mm |
| SUT-15M          | 15mm |
| SUTI-16M         | 16mm |
| SUTI-18M         | 18mm |
| SUTI-20M         | 20mm |
| SUT-22M          | 22mm |
| SUTI-25M         | 25mm |
| SUT-28M          | 28mm |
| SUT-30M          | 30mm |
| SUT-32M          | 32mm |
| SUT-38M          | 38mm |

## SRUTI

Reducing Union Tee



Connects Fractional Tubing

| Part No.    | Tube O.D. | Reduced Tube O.D. |
|-------------|-----------|-------------------|
| Fractional  | Inch      | Inch              |
| SRUTI-6-4   | 3/8       | 1/4               |
| SRUTI-8-4   | 1/2       | 1/4               |
| SRUTI-8-6   | 1/2       | 3/8               |
| SRUTI-10-6  | 5/8       | 3/8               |
| SRUTI-12-6  | 3/4       | 3/8               |
| SRUTI-12-8  | 3/4       | 1/2               |
| SRUTI-16-6  | 1         | 3/8               |
| SRUTI-16-8  | 1         | 1/2               |
| SRUTI-16-12 | 1         | 3/4               |

## SMBTI

Male Branch Tee



Connects Tubing to Female Tapered Thread

| Part No.   | Tube O.D. | Thread Type |
|------------|-----------|-------------|
| Fractional | Inch      | NPT         |
| SMBT-2-2N  | 1/8       | 1/8         |
| SMBT-2-4N  | 1/8       | 1/4         |
| SMBT-3-2N  | 3/16      | 1/8         |
| SMBTI-4-2N | 1/4       | 1/8         |
| SMBTI-4-4N | 1/4       | 1/4         |

| SMBTI - Continued |      |          |
|-------------------|------|----------|
| SMBTI-5-2N        | 5/16 | 1/8      |
| SMBTI-6-4N        | 3/8  | 1/4      |
| SMBTI-6-6N        | 3/8  | 3/8      |
| SMBTI-8-6N        | 1/2  | 3/8      |
| SMBTI-8-8N        | 1/2  | 1/2      |
| SMBTI-10-8N       | 5/8  | 1/2      |
| SMBTI-12-12N      | 3/4  | 3/4      |
| Metric            | MM   | ISO Tap. |
| SMBT-3-2R         | 3mm  | 1/8      |
| SMBT-3-4R         | 3mm  | 1/4      |
| SMBT-4-2R         | 4mm  | 1/8      |
| SMBTI-6-2R        | 6mm  | 1/8      |
| SMBTI-6-4R        | 6mm  | 1/4      |
| SMBTI-8M-2R       | 8mm  | 1/8      |
| SMBTI-8M-4R       | 8mm  | 1/4      |
| SMBTI-10M-4R      | 10mm | 1/4      |
| SMBTI-10M-6R      | 10mm | 3/8      |
| SMBTI-12M-4R      | 12mm | 1/4      |
| SMBTI-12M-6R      | 12mm | 3/8      |
| SMBTI-12M-8R      | 12mm | 1/2      |
| SMBTI-16M-6R      | 16mm | 3/8      |
| SMBTI-16M-8R      | 16mm | 1/2      |
| SMBTI-20M-12R     | 20mm | 3/4      |

## SPMBTI

Positionable Male Branch Tee



Connects Tubing to Female Straight Thread

| Part No.      | Tube O.D. | Thread Type |
|---------------|-----------|-------------|
| Fractional    | Inch      | ISO Par.    |
| SPMBTI-4-2G   | 1/4       | 1/8         |
| SPMBTI-4-4G   | 1/4       | 1/4         |
| SPMBTI-6-4G   | 3/8       | 1/4         |
| SPMBTI-8-6G   | 1/2       | 3/8         |
| SPMBTI-8-8G   | 1/2       | 1/2         |
| SPMBTI-10-8G  | 5/8       | 1/2         |
| SPMBTI-12-8G  | 3/4       | 1/2         |
| SPMBTI-12-12G | 3/4       | 3/4         |
| SPMBTI-16-16G | 1         | 1           |
| Metric        | MM        | ISO Par.    |
| SPMBTI-6M-2G  | 6mm       | 1/8         |
| SPMBTI-6M-4G  | 6mm       | 1/4         |
| SPMBTI-8M-2G  | 8mm       | 1/8         |
| SPMBTI-8M-4G  | 8mm       | 1/4         |
| SPMBTI-10M-4G | 10mm      | 1/4         |

| SPMBTI - Continued |       |           |
|--------------------|-------|-----------|
| SPMBTI-12M-6G      | 12mm  | 3/8       |
| SPMBTI-12M-8G      | 12mm  | 1/2       |
| Fractional         | Inch  | SAE/MS    |
| SPMBTI-4-4U        | 1/4   | 7/16-20   |
| SPMBTI-6-6U        | 3/8   | 9/16-18   |
| SPMBTI-8-8U        | 1/2   | 3/4-16    |
| SPMBTI-12-12U      | 3/4   | 1-1/16-12 |
| SPMBTI-16-16U      | 1     | 1-5/16-12 |
| SPMBT-20-20U       | 1-1/4 | 1-5/8-12  |
| SPMBT-24-24U       | 1-1/2 | 1-7/8-12  |
| SPMBT-32-32U       | 2     | 2-1/2-12  |

## SMRTI

Male Run Tee



Connects Tubing to Female Tapered Thread

| Part No.      | Tube O.D. | Thread Type |
|---------------|-----------|-------------|
| Fractional    | Inch      | NPT         |
| SMRT-2-2N     | 1/8       | 1/8         |
| SMRT-2-4N     | 1/8       | 1/4         |
| SMRT-3-2N     | 3/16      | 1/8         |
| SMRTI-4-2N    | 1/4       | 1/8         |
| SMRTI-4-4N    | 1/4       | 1/4         |
| SMRTI-5-2N    | 5/16      | 1/8         |
| SMRTI-6-4N    | 3/8       | 1/4         |
| SMRTI-6-6N    | 3/8       | 3/8         |
| SMRTI-8-6N    | 1/2       | 3/8         |
| SMRTI-8-8N    | 1/2       | 1/2         |
| SMRTI-10-8N   | 5/8       | 1/2         |
| SMRTI-12-12N  | 3/4       | 3/4         |
| Metric        | MM        | ISO Tap.    |
| SMRT-3M-2R    | 3mm       | 1/8         |
| SMRT-3M-4R    | 3mm       | 1/4         |
| SMRT-4M-2R    | 4mm       | 1/8         |
| SMRTI-6M-2R   | 6mm       | 1/8         |
| SMRTI-6M-4R   | 6mm       | 1/4         |
| SMRTI-8M-2R   | 8mm       | 1/8         |
| SMRTI-8M-4R   | 8mm       | 1/4         |
| SMRTI-10M-4R  | 10mm      | 1/4         |
| SMRTI-10M-6R  | 10mm      | 3/8         |
| SMRTI-12M-4R  | 12mm      | 1/4         |
| SMRTI-12M-6R  | 12mm      | 3/8         |
| SMRTI-12M-8R  | 12mm      | 1/2         |
| SMRTI-16M-6R  | 16mm      | 3/8         |
| SMRTI-16M-8R  | 16mm      | 1/2         |
| SMRTI-20M-12R | 20mm      | 3/4         |

## SPMRTI

Positionable Male Run Tee



Connects Tubing to Female Straight Thread

| Part No.      | Tube O.D. | Thread Type |
|---------------|-----------|-------------|
| Fractional    | Inch      | ISO Par.    |
| SPMRTI-4-2G   | 1/4       | 1/8         |
| SPMRTI-4-4G   | 1/4       | 1/4         |
| SPMRTI-6-4G   | 3/8       | 1/4         |
| SPMRTI-8-6G   | 1/2       | 3/8         |
| SPMRTI-8-8G   | 1/2       | 1/2         |
| SPMRTI-10-8G  | 5/8       | 1/2         |
| SPMRTI-12-8G  | 3/4       | 1/2         |
| SPMRTI-12-12G | 3/4       | 3/4         |
| SPMRTI-16-16G | 1         | 1           |
| Metric        | MM        | ISO Par.    |
| SPMRTI-6M-2G  | 6mm       | 1/8         |
| SPMRTI-6M-4G  | 6mm       | 1/4         |
| SPMRTI-8M-2G  | 8mm       | 1/8         |
| SPMRTI-8M-4G  | 8mm       | 1/4         |
| SPMRTI-10M-4G | 10mm      | 1/4         |
| SPMRTI-12M-6G | 12mm      | 3/8         |
| SPMRTI-12M-8G | 12mm      | 1/2         |
| Fractional    | Inch      | SAE/MS      |
| SPMRTI-4-4U   | 1/4       | 7/16-20     |
| SPMRTI-6-6U   | 3/8       | 9/16-18     |
| SPMRTI-8-8U   | 1/2       | 3/4-16      |
| SPMRTI-12-12U | 3/4       | 1-1/16-12   |
| SPMRTI-16-16U | 1         | 1-5/16-12   |
| SPMRT-20-20U  | 1-1/4     | 1-5/8-12    |
| SPMRT-24-24U  | 1-1/2     | 1-7/8-12    |
| SPMRT-32-32U  | 2         | 2-1/2-12    |

## SFBTI

Female Branch Tee



Connects Tubing to Male Thread

| Part No.   | Tube O.D. | Thread Type |
|------------|-----------|-------------|
| Fractional | Inch      | NPT         |
| SFBT-2-2N  | 1/8       | 1/8         |
| SFBTI-4-2N | 1/4       | 1/8         |

| SFBTI - Continued |      |     |
|-------------------|------|-----|
| SFBTI-4-4N        | 1/4  | 1/4 |
| SFBTI-6-4N        | 3/8  | 1/4 |
| SFBTI-6-6N        | 3/8  | 3/8 |
| SFBTI-6-8N        | 3/8  | 1/2 |
| SFBTI-8-4N        | 1/2  | 1/4 |
| SFBTI-8-6N        | 1/2  | 3/8 |
| SFBTI-8-8N        | 1/2  | 1/2 |
| SFBTI-10-8N       | 5/8  | 1/2 |
| SFBTI-12-12N      | 3/4  | 3/4 |
| SFBTI-16-12N      | 1    | 3/4 |
| SFBTI-16-16N      | 1    | 1   |
| Metric            | MM   | NPT |
| SFBTI-6M-2N       | 6mm  | 1/8 |
| SFBTI-6M-4N       | 6mm  | 1/4 |
| SFBTI-6M-6N       | 6mm  | 3/8 |
| SFBTI-6M-8N       | 6mm  | 1/2 |
| SFBTI-8M-2N       | 8mm  | 1/8 |
| SFBTI-8M-4N       | 8mm  | 1/4 |
| SFBTI-8M-6N       | 8mm  | 3/8 |
| SFBTI-8M-8N       | 8mm  | 1/2 |
| SFBTI-10M-4N      | 10mm | 1/4 |
| SFBTI-10M-6N      | 12mm | 3/8 |
| SFBTI-10M-8N      | 10mm | 1/2 |
| SFBTI-12M-4N      | 12mm | 1/4 |
| SFBTI-12M-6N      | 12mm | 3/8 |
| SFBTI-12M-8R      | 12mm | 1/2 |
| SFBTI-16M-8N      | 16mm | 1/2 |

## SFRTI

Female Run Tee



Connects Fractional Tubes to Male Thread

| Part No.     | Tube O.D. | Thread Type |
|--------------|-----------|-------------|
| Fractional   | Inch      | NPT         |
| SFRTI-2-2N   | 1/8       | 1/8         |
| SFRTI-4-2N   | 1/4       | 1/8         |
| SFRTI-4-4N   | 1/4       | 1/4         |
| SFRTI-6-4N   | 3/8       | 1/4         |
| SFRTI-8-6N   | 1/2       | 3/8         |
| SFRTI-8-8N   | 1/2       | 1/2         |
| SFRTI-12-12N | 3/4       | 3/4         |
| SFRTI-16-12N | 1         | 3/4         |
| SFRTI-16-16N | 1         | 1           |

| SFRTI - Continued |      |     |
|-------------------|------|-----|
| Metric            | MM   | NPT |
| SFRTI-6M-2N       | 6mm  | 1/8 |
| SFRTI-6M-4N       | 6mm  | 1/4 |
| SFRTI-6M-8N       | 6mm  | 1/2 |
| SFRTI-8M-2N       | 8mm  | 1/8 |
| SFRTI-8M-4N       | 8mm  | 1/4 |
| SFRTI-8M-6N       | 8mm  | 3/8 |
| SFRTI-8M-8N       | 8mm  | 1/2 |
| SFRTI-12M-4N      | 12mm | 1/4 |
| SFRTI-12M-6N      | 12mm | 3/8 |
| SFRTI-12M-8N      | 12mm | 1/2 |
| SFRTI-16M-8N      | 16mm | 1/2 |

## SUCI

Union Cross



Connects Tubing

| Part No.   | Tube O.D.  |
|------------|------------|
| Fractional | Inch       |
| SUC-1      | 1/16       |
| SUC-2      | 1/8        |
| SUC-3      | 3/16       |
| SUCI-4     | 1/4        |
| SUCI-5     | 5/16       |
| SUCI-6     | 3/8        |
| SUCI-8     | 1/2        |
| SUCI-10    | 5/8        |
| SUCI-12    | 3/4        |
| SUCI-14    | 7/8        |
| SUCI-16    | 1          |
| Metric     | Millimeter |
| SUC-3M     | 3mm        |
| SUC-6M     | 6mm        |
| SUC-8M     | 8mm        |
| SUCI-10M   | 10mm       |
| SUCI-12M   | 12mm       |
| SUCI-16M   | 16mm       |
| SUCI-18M   | 18mm       |
| SUC-20M    | 20mm       |
| SUCI-25M   | 25mm       |

## SRI

Reducer



Connects Tubing to Tube Fittings

| Part No.   | Tube O.D. | Tube Stub Size |
|------------|-----------|----------------|
| Fractional | Inch      | Inch           |
| SR-2-1     | 1/8       | 1/16           |
| SR-2-2     | 1/8       | 1/8            |
| SR-2-3     | 1/8       | 3/16           |
| SR-2-4     | 1/8       | 1/4            |
| SR-2-6     | 1/8       | 3/8            |
| SR-2-8     | 1/8       | 1/2            |
| SR-3-2     | 3/16      | 1/8            |
| SR-3-4     | 3/16      | 1/4            |
| SRI-4-2    | 1/4       | 1/8            |
| SRI-4-3    | 1/4       | 3/16           |
| SRI-4-4    | 1/4       | 1/4            |
| SRI-4-5    | 1/4       | 5/16           |
| SRI-4-6    | 1/4       | 3/8            |
| SRI-4-8    | 1/4       | 1/2            |
| SRI-4-10   | 1/4       | 5/8            |
| SRI-4-12   | 1/4       | 3/4            |
| SRI-5-6    | 5/16      | 3/8            |
| SRI-5-8    | 5/16      | 1/2            |
| SRI-6-4    | 3/8       | 1/4            |
| SRI-6-6    | 3/8       | 3/8            |
| SRI-6-8    | 3/8       | 1/2            |
| SRI-6-10   | 3/8       | 5/8            |
| SRI-6-12   | 3/8       | 3/4            |
| SRI-8-4    | 1/2       | 1/4            |
| SRI-8-6    | 1/2       | 3/8            |
| SRI-8-8    | 1/2       | 1/2            |
| SRI-8-10   | 1/2       | 5/8            |
| SRI-8-12   | 1/2       | 3/4            |
| SRI-8-16   | 1/2       | 1              |
| SRI-10-12  | 5/8       | 3/4            |
| SRI-10-14  | 5/8       | 7/8            |
| SRI-10-16  | 5/8       | 1              |
| SRI-12-8   | 3/4       | 1/2            |
| SRI-12-16  | 3/4       | 1              |
| Metric     | MM        | MM             |
| SR-3M-4M   | 3mm       | 4mm            |
| SR-3M-6M   | 3mm       | 6mm            |
| SR-3M-10M  | 3mm       | 10mm           |
| SR-4M-6M   | 4mm       | 6mm            |

| SRI - Continued |      |      |
|-----------------|------|------|
| SRI-6M-3M       | 6mm  | 3mm  |
| SRI-6M-8M       | 6mm  | 8mm  |
| SRI-6M-10M      | 6mm  | 10mm |
| SRI-6M-12M      | 6mm  | 12mm |
| SRI-8M-6M       | 8mm  | 6mm  |
| SRI-8M-10M      | 8mm  | 10mm |
| SRI-8M-12M      | 8mm  | 12mm |
| SRI-10M-6M      | 10mm | 6mm  |
| SRI-10M-8M      | 10mm | 8mm  |
| SRI-10M-12M     | 10mm | 12mm |
| SRI-10M-15M     | 10mm | 15mm |
| SRI-10M-18M     | 10mm | 18mm |
| SRI-12M-6M      | 12mm | 6mm  |
| SRI-12M-8M      | 12mm | 8mm  |
| SRI-12M-10M     | 12mm | 10mm |
| SRI-12M-16M     | 12mm | 16mm |
| SRI-12M-18M     | 12mm | 18mm |
| SRI-12M-20M     | 12mm | 20mm |
| SRI-12M-22M     | 12mm | 22mm |
| SRI-12M-25M     | 12mm | 25mm |
| SRI-16M-12M     | 16mm | 12mm |
| SRI-18M-12M     | 18mm | 12mm |
| SRI-18M-16M     | 18mm | 16mm |
| SRI-18M-20M     | 18mm | 20mm |
| SRI-18M-22M     | 18mm | 22mm |
| SRI-18M-25M     | 18mm | 25mm |
| SRI-20M-16M     | 20mm | 16mm |
| SRI-20M-18M     | 20mm | 18mm |
| SRI-20M-22M     | 20mm | 22mm |
| SRI-20M-25M     | 20mm | 25mm |
| SR-22M-18M      | 22mm | 18mm |
| SR-22M-20M      | 22mm | 20mm |
| SR-22M-25M      | 22mm | 25mm |
| SRI-25M-18M     | 25mm | 18mm |
| SRI-25M-20M     | 25mm | 20mm |
| Adapter         | MM   | Inch |
| SR-3M-2         | 3mm  | 1/8  |
| SR-3M-4         | 3mm  | 1/4  |
| SRI-6M-4        | 6mm  | 1/4  |
| SRI-6M-5        | 6mm  | 5/16 |
| SRI-6M-6        | 6mm  | 3/8  |
| SRI-6M-8        | 6mm  | 1/2  |
| SRI-8M-6        | 8mm  | 3/8  |
| SRI-8M-8        | 8mm  | 1/2  |
| SRI-10M-6       | 10mm | 3/8  |
| SRI-10M-8       | 10mm | 1/2  |
| SRI-12M-8       | 12mm | 1/2  |
| SRI-12M-12      | 12mm | 3/4  |
| SRI-18M-12      | 18mm | 3/4  |
| SRI-18M-16      | 18mm | 1    |

Tube Fittings

Instrument Fittings

Mako Valves

Superlok Valves

Additional Series



# SRB

## Bulkhead Reducer



Connects Tubing to Tube Fittings

| Part No.   | Tube O.D. | Tube Stub Size |
|------------|-----------|----------------|
| Fractional | Inch      | Inch           |
| SRB-2-2    | 1/8       | 1/8            |
| SRB-4-4    | 1/4       | 1/4            |
| SRB-6-6    | 3/8       | 3/8            |
| SRB-8-8    | 1/2       | 1/2            |
| SRB-10-10  | 5/8       | 5/8            |
| SRB-12-12  | 3/4       | 3/4            |

# SMA

## Male Adapter



Connects Tube Fittings to Female Thread

| Part No.   | Tube Stub Size | Thread Type |
|------------|----------------|-------------|
| Fractional | Inch           | NPT         |
| SMA-2-2N   | 1/8            | 1/8         |
| SMA-2-4N   | 1/8            | 1/4         |
| SMA-3-2N   | 3/16           | 1/8         |
| SMA-3-4N   | 3/16           | 1/4         |
| SMA-4-2N   | 1/4            | 1/8         |
| SMA-4-4N   | 1/4            | 1/4         |
| SMA-4-6N   | 1/4            | 3/8         |
| SMA-4-8N   | 1/4            | 1/2         |
| SMA-5-2N   | 5/16           | 1/8         |
| SMA-5-4N   | 5/16           | 1/4         |
| SMA-6-2N   | 3/8            | 1/8         |
| SMA-6-4N   | 3/8            | 1/4         |
| SMA-6-6N   | 3/8            | 3/8         |
| SMA-6-8N   | 3/8            | 1/2         |
| SMA-8-4N   | 1/2            | 1/4         |
| SMA-8-6N   | 1/2            | 3/8         |
| SMA-8-8N   | 1/2            | 1/2         |
| SMA-10-6N  | 5/8            | 3/8         |
| SMA-10-8N  | 5/8            | 1/2         |
| SMA-10-12N | 5/8            | 3/4         |
| SMA-12-8N  | 3/4            | 1/2         |
| SMA-12-12N | 3/4            | 3/4         |
| SMA-12-16N | 3/4            | 1           |

### SMA - Continued

| SMA-14-12N  | 7/8  | 3/4 |
|-------------|------|-----|
| SMA-16-12N  | 1    | 3/4 |
| SMA-16-16N  | 1    | 1   |
| Metric      | MM   | NPT |
| SMA-6M-2N   | 6mm  | 1/8 |
| SMA-6M-4N   | 6mm  | 1/4 |
| SMA-8M-4N   | 8mm  | 1/4 |
| SMA-10M-4N  | 10mm | 1/4 |
| SMA-10M-6N  | 10mm | 3/8 |
| SMA-10M-8N  | 10mm | 1/2 |
| SMA-12M-4N  | 12mm | 1/4 |
| SMA-12M-8N  | 12mm | 1/2 |
| SMA-18M-12N | 18mm | 3/4 |

# SFA

## Female Adapter



Connects Tube Fittings to Male Tapered Thread

| Part No.   | Tube Stub Size | Thread Type |
|------------|----------------|-------------|
| Fractional | Inch           | NPT         |
| SFA-2-2N   | 1/8            | 1/8         |
| SFA-2-4N   | 1/8            | 1/4         |
| SFA-3-2N   | 3/16           | 1/8         |
| SFA-3-4N   | 3/16           | 1/4         |
| SFA-4-2N   | 1/4            | 1/8         |
| SFA-4-4N   | 1/4            | 1/4         |
| SFA-4-6N   | 1/4            | 3/8         |
| SFA-4-8N   | 1/4            | 1/2         |
| SFA-5-2N   | 5/16           | 1/8         |
| SFA-5-4N   | 5/16           | 1/4         |
| SFA-6-2N   | 3/8            | 1/8         |
| SFA-6-4N   | 3/8            | 1/4         |
| SFA-6-6N   | 3/8            | 3/8         |
| SFA-6-8N   | 3/8            | 1/2         |
| SFA-8-4N   | 1/2            | 1/4         |
| SFA-8-6N   | 1/2            | 3/8         |
| SFA-8-8N   | 1/2            | 1/2         |
| SFA-10-6N  | 5/8            | 3/8         |
| SFA-10-8N  | 5/8            | 1/2         |
| SFA-12-8N  | 3/4            | 1/2         |
| SFA-12-12N | 3/4            | 3/4         |
| SFA-12-16N | 3/4            | 1           |
| SFA-14-12N | 7/8            | 3/4         |
| SFA-16-12N | 1              | 3/4         |
| SFA-16-16N | 1              | 1           |

### SFA - Continued

| Metric      | MM   | NPT |
|-------------|------|-----|
| SFA-3M-2N   | 3mm  | 1/8 |
| SFA-6M-2N   | 6mm  | 1/8 |
| SFA-6M-4N   | 6mm  | 1/4 |
| SFA-8M-4N   | 8mm  | 1/4 |
| SFA-10M-4N  | 10mm | 1/4 |
| SFA-10M-6N  | 10mm | 3/8 |
| SFA-10M-8N  | 10mm | 1/2 |
| SFA-12M-4N  | 12mm | 1/4 |
| SFA-12M-6N  | 12mm | 3/8 |
| SFA-12M-8N  | 12mm | 1/2 |
| SFA-18M-12N | 18mm | 3/4 |

# SPC

## Port Connector



Connects Tube Fittings

| Part No.   | Tube O.D.  |
|------------|------------|
| Fractional | Inch       |
| SPC-2      | 1/8        |
| SPC-4      | 1/4        |
| SPC-5      | 5/16       |
| SPC-6      | 3/8        |
| SPC-8      | 1/2        |
| SPC-12     | 3/4        |
| SPC-16     | 1          |
| Metric     | Millimeter |
| SPC-3M     | 3mm        |
| SPC-6M     | 6mm        |
| SPC-8M     | 8mm        |
| SPC-10M    | 10mm       |
| SPC-12M    | 12mm       |
| SPC-18M    | 18mm       |

# SRPC

## Reducing Port Connector



Connects Tube Fittings

| Part No.   | Tube O.D. | Tube Stub Size |
|------------|-----------|----------------|
| Fractional | Inch      | Inch           |
| SRPC-2-1   | 1/8       | 1/16           |

### SRPC - Continued

|            |     |      |
|------------|-----|------|
| SRPC-4-1   | 1/4 | 1/16 |
| SRPC-4-2   | 1/4 | 1/8  |
| SRPC-6-2   | 3/8 | 1/8  |
| SRPC-6-4   | 3/8 | 1/4  |
| SRPC-8-4   | 1/2 | 1/4  |
| SRPC-8-6   | 1/2 | 3/8  |
| SRPC-12-8  | 3/4 | 1/2  |
| SRPC-16-8  | 1   | 1/2  |
| SRPC-16-12 | 1   | 3/4  |

# SAF

## JIC/AN Flare



Connects Tube Fittings to Male JIC/AN

| Part No.   | Tube O.D. | Thread Type |
|------------|-----------|-------------|
| Fractional | Inch      | JIC/AN      |
| SAF-2-2U   | 1/8       | 1/8         |
| SAF-2-4U   | 1/8       | 1/4         |
| SAF-4-4U   | 1/4       | 1/4         |
| SAF-6-6U   | 3/8       | 3/8         |
| SAF-8-8U   | 1/2       | 1/2         |

# SAUI

## JIC/AN Union



Connects Fractional Tubes to Female JIC/AN

| Part No.    | Tube O.D. | Thread Type |
|-------------|-----------|-------------|
| Fractional  | Inch      | JIC/AN      |
| SAUI-2-2U   | 1/8       | 1/8         |
| SAUI-2-4U   | 1/8       | 1/4         |
| SAUI-4-4U   | 1/4       | 1/4         |
| SAUI-5-5U   | 5/16      | 5/16        |
| SAUI-6-4U   | 3/8       | 1/4         |
| SAUI-6-6U   | 3/8       | 3/8         |
| SAUI-8-8U   | 1/2       | 1/2         |
| SAUI-12-12U | 3/4       | 3/4         |
| SAUI-16-16U | 1         | 1           |

## SAA

### JIC/AN Adapter



Connects Tube Fittings to Female JIC/AN

| Part No.   | Tube Stub Size | Thread Type |
|------------|----------------|-------------|
| Fractional | Inch           | JIC/AN      |
| SAA-4-4U   | 1/4            | 1/4         |
| SAA-6-4U   | 3/8            | 1/4         |
| SAA-6-6U   | 3/8            | 3/8         |
| SAA-8-8U   | 1/2            | 1/2         |
| SAA-12-12U | 3/4            | 3/4         |
| SAA-16-16U | 1              | 1           |

## SOSCI

### O-Seal Straight Thread Connector



Connects Fractional Tubes to Female Straight Thread

| Part No.     | Tube O.D. | Thread Type |
|--------------|-----------|-------------|
| Fractional   | Inch      | SAE/MS      |
| SOSC-2-2U    | 1/8       | 5/16-24     |
| SOSC-3-3U    | 3/16      | 3/8-24      |
| SOSCI-4-4U   | 1/4       | 7/16-20     |
| SOSCI-5-5U   | 5/16      | 1/2-20      |
| SOSCI-6-6U   | 3/8       | 9/16-18     |
| SOSCI-8-8U   | 1/2       | 3/4-16      |
| SOSCI-12-12U | 3/4       | 1-1/16-12   |
| SOSCI-16-16U | 1         | 1-5/16-12   |

## SOPCI

### O-Seal Pipe Thread Connector



Connects Fractional Tubes to Female Tapered Thread

| Part No.   | Tube O.D. | Thread Type |
|------------|-----------|-------------|
| Fractional | Inch      | NPT         |
| SOPC-2-2N  | 1/8       | 1/8         |

### SOPCI - Continued

|            |     |     |
|------------|-----|-----|
| SOPCI-4-2N | 1/4 | 1/8 |
| SOPCI-4-4N | 1/4 | 1/4 |
| SOPCI-6-4N | 3/8 | 1/4 |
| SOPCI-6-6N | 3/8 | 3/8 |
| SOPCI-6-8N | 3/8 | 1/2 |
| SOPCI-8-8N | 1/2 | 1/2 |

## SSMCI

### SAE/MS Male Connector



Connects Tube Fittings to SAE/MS Straight Thread Boss

| Part No.     | Tube O.D. | Thread Type |
|--------------|-----------|-------------|
| Fractional   | Inch      | SAE/MS      |
| SSMC-2-2U    | 1/8       | 5/16-24     |
| SSMCI-4-4U   | 1/4       | 7/16-20     |
| SSMCI-4-6U   | 1/4       | 9/16-18     |
| SSMCI-4-8U   | 1/4       | 3/4-16      |
| SSMCI-4-10U  | 1/4       | 7/8-14      |
| SSMCI-5-5U   | 5/16      | 1/2-20      |
| SSMCI-6-4U   | 3/8       | 7/16-20     |
| SSMCI-6-6U   | 3/8       | 9/16-18     |
| SSMCI-6-8U   | 3/8       | 3/4-16      |
| SSMCI-6-10U  | 3/8       | 7/8-14      |
| SSMCI-8-6U   | 1/2       | 9/16-18     |
| SSMCI-8-8U   | 1/2       | 3/4-16      |
| SSMCI-8-10U  | 3/8       | 7/8-14      |
| SSMCI-8-12U  | 1/2       | 1-1/16-12   |
| SSMCI-10-8U  | 5/8       | 3/4-16      |
| SSMCI-10-12U | 5/8       | 1-1/16-12   |
| SSMCI-12-8U  | 3/4       | 3/4-16      |
| SSMCI-12-12U | 3/4       | 1-1/16-12   |
| SSMCI-14-14U | 7/8       | 1-3/16-12   |
| SSMCI-16-12U | 1         | 1-1/16-12   |
| SSMCI-16-16U | 1         | 1-5/16-12   |

## SPWCI

### Male Pipe Weld Connector



Connects Tubing To Pipe

| Part No.     | Tube O.D. | Pipe Size |
|--------------|-----------|-----------|
| Fractional   | Inch      | Inch      |
| SPWC-2-2P    | 1/8       | 1/8       |
| SPWC-3-2P    | 3/16      | 1/8       |
| SPWCI-4-2P   | 1/4       | 1/8       |
| SPWCI-4-4P   | 1/4       | 1/4       |
| SPWCI-5-2P   | 5/16      | 1/8       |
| SPWCI-5-4P   | 5/16      | 1/4       |
| SPWCI-6-4P   | 3/8       | 1/4       |
| SPWCI-6-6P   | 3/8       | 3/8       |
| SPWCI-6-8P   | 3/8       | 1/2       |
| SPWCI-8-6P   | 1/2       | 3/8       |
| SPWCI-8-8P   | 1/2       | 1/2       |
| SPWCI-8-12P  | 1/2       | 3/4       |
| SPWCI-10-8P  | 5/8       | 1/2       |
| SPWCI-12-12P | 3/4       | 3/4       |
| SPWCI-16-16P | 1         | 1         |
| Metric       | MM        | Inch      |
| SPWC-3M-2P   | 3mm       | 1/8       |
| SPWC-4M-2P   | 4mm       | 1/8       |
| SPWCI-6M-2P  | 6mm       | 1/8       |
| SPWCI-6M-4P  | 6mm       | 1/4       |
| SPWCI-8M-2P  | 8mm       | 1/8       |
| SPWCI-8M-4P  | 8mm       | 1/4       |
| SPWCI-8M-8P  | 8mm       | 1/2       |
| SPWCI-10M-4P | 10mm      | 1/4       |
| SPWCI-10M-6P | 10mm      | 3/8       |
| SPWCI-10M-8P | 10mm      | 1/2       |
| SPWCI-12M-4P | 12mm      | 1/4       |
| SPWCI-12M-6P | 12mm      | 3/8       |
| SPWCI-12M-8P | 12mm      | 1/2       |
| SPWC-15M-8P  | 15mm      | 1/2       |
| SPWCI-16M-8P | 16mm      | 1/2       |
| SPWCI-18M-8P | 18mm      | 1/2       |

## SMPWEI

### Male Pipe Weld Elbow



Connects Tubing To Pipe

| Part No.    | Tube O.D. | Pipe Size |
|-------------|-----------|-----------|
| Fractional  | Inch      | Inch      |
| SMPWEI-4-4P | 1/4       | 1/4       |
| SMPWEI-6-4P | 3/8       | 1/4       |
| SMPWEI-8-8P | 1/2       | 1/2       |

## SSWCI

### Tube Socket Weld Connector



Connects Fractional Tubes

| Part No.   | Tube O.D. |
|------------|-----------|
| Fractional | Inch      |
| SSWC-2     | 1/8       |
| SSWCI-4    | 1/4       |
| SSWCI-6    | 3/8       |
| SSWCI-8    | 1/2       |
| SSWCI-12   | 3/4       |
| SSWCI-16   | 1         |

## SSWEI

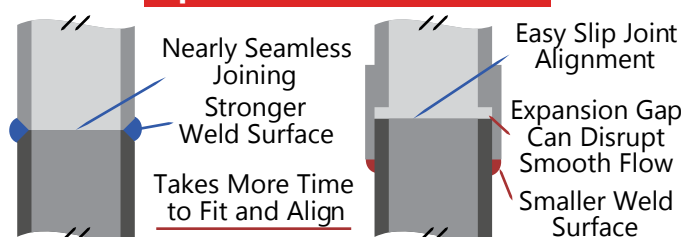
### Tube Socket Weld Elbow



Connects Fractional Tubes

| Part No.   | Tube O.D. |
|------------|-----------|
| Fractional | Inch      |
| SSWCI-4    | 1/4       |
| SSWCI-6    | 3/8       |
| SSWCI-8    | 1/2       |
| SSWCI-12   | 3/4       |
| SSWCI-16   | 1         |

### Pipe Weld Vs Socket Weld



## SP PLUG



Seals Unused  
Tube Fitting Port

| Part No.   | Tube O.D.  |
|------------|------------|
| Fractional | Inch       |
| SP-2       | 1/8        |
| SP-3       | 3/16       |
| SP-4       | 1/4        |
| SP-5       | 5/16       |
| SP-6       | 3/8        |
| SP-8       | 1/2        |
| SP-10      | 5/8        |
| SP-12      | 3/4        |
| SP-14      | 7/8        |
| SP-16      | 1          |
| Metric     | Millimeter |
| SP-2M      | 2mm        |
| SP-3M      | 3mm        |
| SP-4M      | 4mm        |
| SP-6M      | 6mm        |
| SP-8M      | 8mm        |
| SP-10M     | 10mm       |
| SP-12M     | 12mm       |
| SP-15M     | 15mm       |
| SP-16M     | 16mm       |
| SP-18M     | 18mm       |
| SP-20M     | 20mm       |
| SP-22M     | 22mm       |
| SP-25M     | 25mm       |

## SCI Tube Cap



Seals Open Tubing Ends

| Part No.   | Tube O.D. |
|------------|-----------|
| Fractional | Inch      |
| SC-1       | 1/16      |
| SC-2       | 1/8       |
| SC-3       | 3/16      |
| SCI-4      | 1/4       |

### SCI - Continued

| SCI-5   | 5/16       |
|---------|------------|
| SCI-6   | 3/8        |
| SCI-8   | 1/2        |
| SCI-10  | 5/8        |
| SCI-12  | 3/4        |
| SCI-14  | 7/8        |
| SCI-16  | 1          |
| Metric  | Millimeter |
| SC-2M   | 2mm        |
| SC-3M   | 3mm        |
| SC-4M   | 4mm        |
| SCI-6M  | 6mm        |
| SCI-8M  | 8mm        |
| SCI-10M | 10mm       |
| SCI-12M | 12mm       |
| SC-15M  | 15mm       |
| SCI-16M | 16mm       |
| SCI-18M | 18mm       |
| SCI-20M | 20mm       |
| SC-22M  | 22mm       |
| SCI-25M | 25mm       |

## SNI Compression Nut



| Part No.   | Tube O.D.  |
|------------|------------|
| Fractional | Inch       |
| SN-1       | 1/16       |
| SN-2       | 1/8        |
| SN-3       | 3/16       |
| SNI-4      | 1/4        |
| SNI-5      | 5/16       |
| SNI-6      | 3/8        |
| SNI-8      | 1/2        |
| SNI-10     | 5/8        |
| SNI-12     | 3/4        |
| SNI-14     | 7/8        |
| SNI-16     | 1          |
| Metric     | Millimeter |
| SN-2M      | 2mm        |
| SN-3M      | 3mm        |
| SN-4M      | 4mm        |
| SNI-6M     | 6mm        |
| SNI-8M     | 8mm        |

### SNI - Continued

|         |      |
|---------|------|
| SNI-10M | 10mm |
| SNI-12M | 12mm |
| SN-14M  | 14mm |
| SNI-15M | 15mm |
| SNI-16M | 16mm |
| SNI-18M | 18mm |
| SN-20M  | 20mm |
| SNI-22M | 22mm |
| SN-25M  | 25mm |

## S1FS Single Ferrule



| Part No.   | Tube O.D. |
|------------|-----------|
| Fractional | Inch      |
| S1FS-4     | 1/4       |
| S1FS-6     | 3/8       |
| S1FS-8     | 1/2       |

## SFS Double Ferrule Set



| Part No.   | Tube O.D.  |
|------------|------------|
| Fractional | Inch       |
| SFS-1      | 1/16       |
| SFS-2      | 1/8        |
| SFS-3      | 3/16       |
| SFS-4      | 1/4        |
| SFS-5      | 5/16       |
| SFS-6      | 3/8        |
| SFS-8      | 1/2        |
| SFS-10     | 5/8        |
| SFS-12     | 3/4        |
| SFS-14     | 7/8        |
| SFS-16     | 1          |
| Metric     | Millimeter |
| SFS-2M     | 2mm        |
| SFS-3M     | 3mm        |
| SFS-4M     | 4mm        |
| SFS-6M     | 6mm        |
| SFS-8M     | 8mm        |
| SFS-10M    | 10mm       |
| SFS-12M    | 12mm       |

### SFS - Continued

|         |      |
|---------|------|
| SFS-15M | 15mm |
| SFS-16M | 16mm |
| SFS-18M | 18mm |
| SFS-20M | 20mm |
| SFS-22M | 22mm |
| SFS-25M | 25mm |

## SI Insert



Prevents Crushing for  
Poly Tubing

| Part No.   | Tube O.D. | Tube I.D. | Bore I.D. |
|------------|-----------|-----------|-----------|
| Fractional | Inch      | Inch      | MM        |
| SI-3-2     | 3/16      | 1/8       | 2.28      |
| SI-4-2     | 1/4       | 1/8       | 2.28      |
| SI-4-3     | 1/4       | 3/16      | 3.55      |
| SI-5-2     | 5/16      | 1/8       | 2.28      |
| SI-5-3     | 5/16      | 3/16      | 3.04      |
| SI-5-4     | 5/16      | 1/4       | 4.82      |
| SI-6-3     | 3/8       | 3/16      | 3.04      |
| SI-6-4     | 3/8       | 1/4       | 4.82      |
| SI-8-4     | 1/2       | 1/4       | 4.82      |
| SI-8-6     | 1/2       | 3/8       | 7.87      |
| SI-10-6    | 5/8       | 3/8       | 7.87      |
| SI-10-8    | 5/8       | 1/2       | 11.17     |
| SI-12-8    | 3/4       | 1/2       | 11.17     |
| SI-12-10   | 3/4       | 5/8       | 14.22     |
| SI-16-12   | 1         | 3/4       | 17.52     |

## SVP Vent Protector



| Part No.   | Thread Type |
|------------|-------------|
| Fractional | NPT         |
| SVP-4N     | 1/4         |
| SVP-6N     | 3/8         |
| SVP-8N     | 1/2         |
| SVP-12N    | 3/4         |

## Notes

Tube Fittings

Instrument Fittings

Mako Valves

Superlok Valves

Additional Series





# INSTRUMENTATION FITTINGS

Standard Material:  
316 Stainless Steel

For the full list of available materials see page 5.

## NPT Pressure Ratings

| Size  | Male   | Female |
|-------|--------|--------|
| 1/16" | 11,000 | 6,700  |
| 1/8"  | 10,000 | 6,500  |
| 1/4"  | 8,000  | 6,600  |
| 3/8"  | 7,800  | 5,300  |
| 1/2"  | 7,700  | 4,900  |
| 3/4"  | 7,300  | 4,600  |
| 1"    | 5,300  | 4,400  |

(316 Stainless NPT)

NPT, ISO Parallel, and ISO Tapered thread available.

Instrumentation fittings are manufactured with a fit and finish like none other. Through use of superior forging and machining processes, Superlok Instrumentation Fittings are the finest threaded stainless steel fittings available.



## ICN Close Nipple

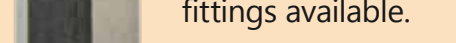
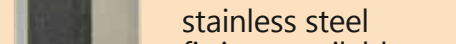
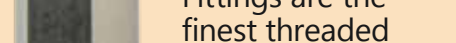
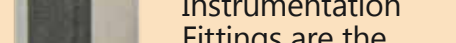
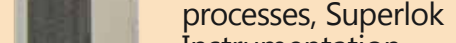
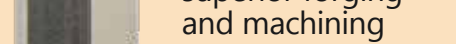
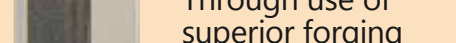
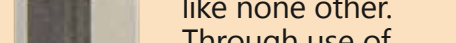
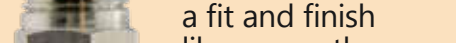
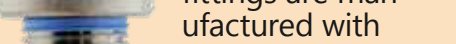
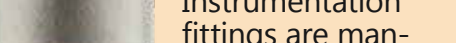
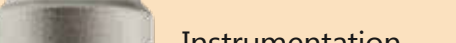
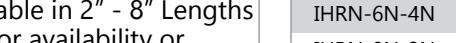
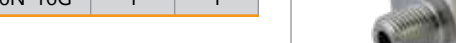
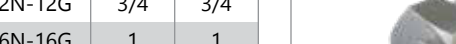
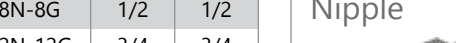
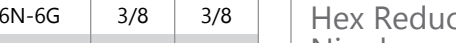
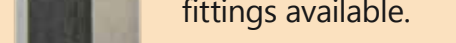
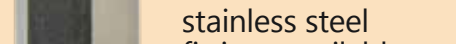
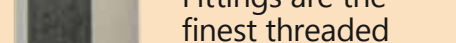
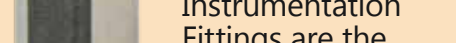
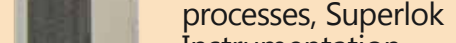
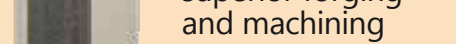
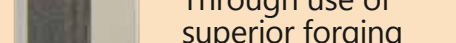
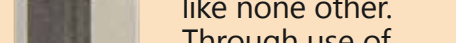
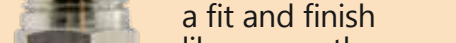
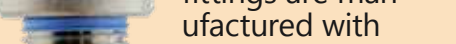
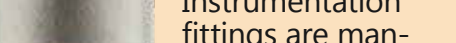
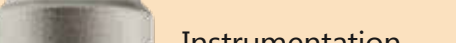
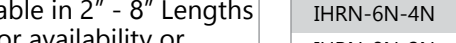
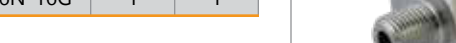
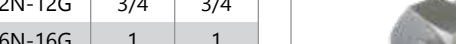
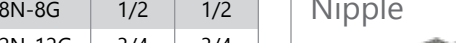
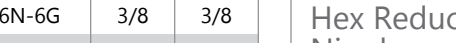
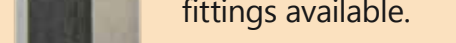
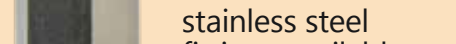
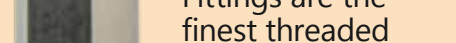
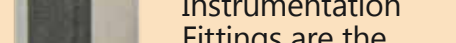
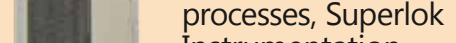
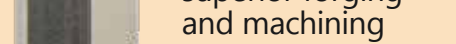
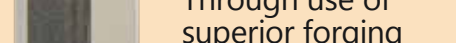
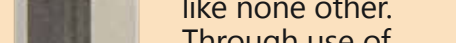
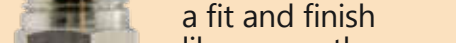
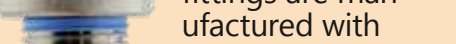
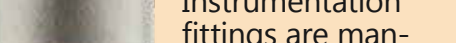
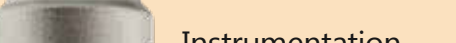
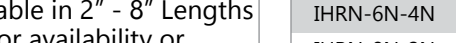
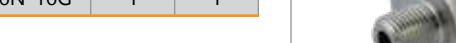
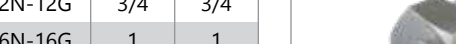
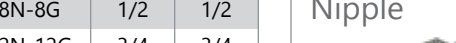
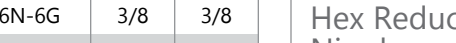
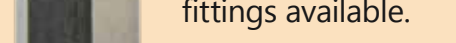
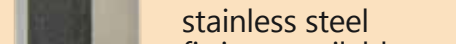
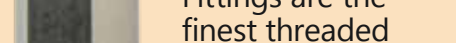
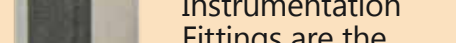
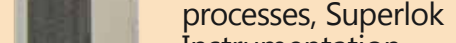
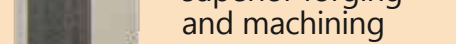
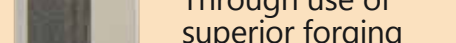
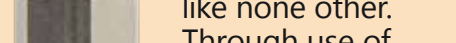
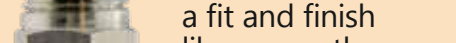
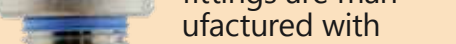
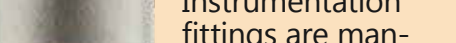
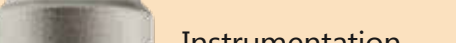
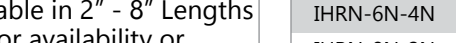
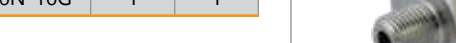
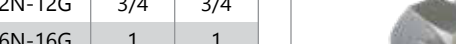
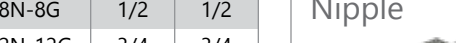
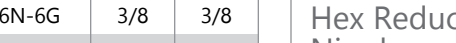
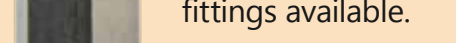
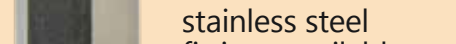
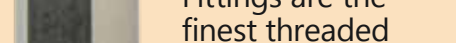
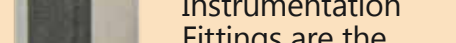
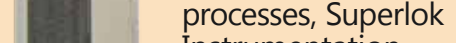
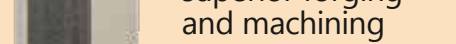
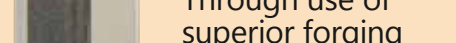
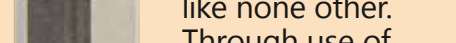
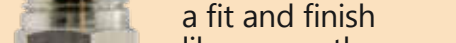
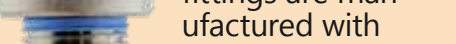
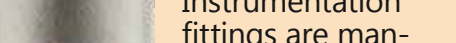
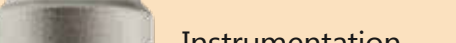
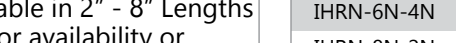
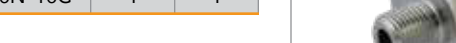
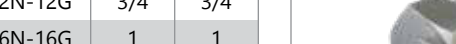
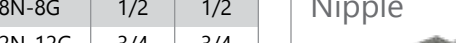
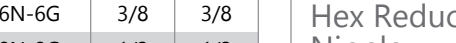
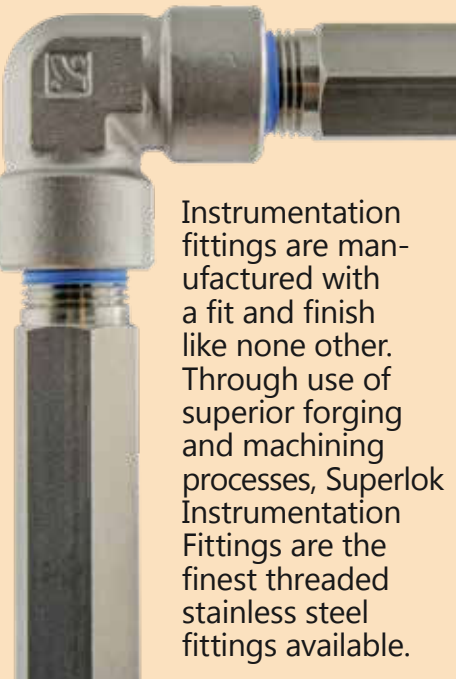


| Part No. | Thread Size |
|----------|-------------|
| NPT      | Male        |
| ICN-2N   | 1/8         |
| ICN-4N   | 1/4         |
| ICN-6N   | 3/8         |
| ICN-8N   | 1/2         |
| ICN-12N  | 3/4         |
| ICN-16N  | 1           |

## IHN Hex Nipple



| Part No. | Thread Size |
|----------|-------------|
| NPT      | Male        |
| IHN-2N   | 1/8         |
| IHN-4N   | 1/4         |



## IRA

Reducing Adapter



| Part No.    | Thread Size | Thread Size |
|-------------|-------------|-------------|
| NPT         | Male        | Female      |
| IRA-2N-4N   | 1/8         | 1/4         |
| IRA-2N-6N   | 1/8         | 3/8         |
| IRA-2N-8N   | 1/8         | 1/2         |
| IRA-4N-6N   | 1/4         | 3/8         |
| IRA-4N-8N   | 1/4         | 1/2         |
| IRA-4N-12N  | 1/4         | 3/4         |
| IRA-4N-16N  | 1/4         | 1           |
| IRA-6N-8N   | 3/8         | 1/2         |
| IRA-6N-12N  | 3/8         | 3/4         |
| IRA-8N-12N  | 1/2         | 3/4         |
| IRA-8N-16N  | 1/2         | 1           |
| IRA-12N-16N | 3/4         | 1           |

## IRHB

Reducing Hex Bushing



| Part No.     | Thread Size | Thread Size |
|--------------|-------------|-------------|
| NPT          | Male        | Female      |
| IRHB-4N-2N   | 1/4         | 1/8         |
| IRHB-6N-2N   | 3/8         | 1/8         |
| IRHB-6N-4N   | 3/8         | 1/4         |
| IRHB-8N-2N   | 1/2         | 1/8         |
| IRHB-8N-4N   | 1/2         | 1/4         |
| IRHB-8N-6N   | 1/2         | 3/8         |
| IRHB-12N-4N  | 3/4         | 1/4         |
| IRHB-12N-6N  | 3/4         | 3/8         |
| IRHB-12N-8N  | 3/4         | 1/2         |
| IRHB-16N-4N  | 1           | 1/4         |
| IRHB-16N-6N  | 1           | 3/8         |
| IRHB-16N-8N  | 1           | 1/2         |
| IRHB-16N-12N | 1           | 3/4         |

## IHC

Hex Coupling



| Part No. | Thread Size |
|----------|-------------|
| NPT      | Female      |
| ICN-2N   | 1/8         |
| ICN-4N   | 1/4         |
| ICN-6N   | 3/8         |
| ICN-8N   | 1/2         |
| ICN-12N  | 3/4         |
| ICN-16N  | 1           |

## IHRC

Hex Reducing Coupling



| Part No.     | Thread Size | Thread Size |
|--------------|-------------|-------------|
| NPT          | Female      | Female      |
| IHRC-4N-2N   | 1/4         | 1/8         |
| IHRC-6N-4N   | 3/8         | 1/4         |
| IHRC-8N-2N   | 1/2         | 1/8         |
| IHRC-8N-4N   | 1/2         | 1/4         |
| IHRC-8N-6N   | 1/2         | 3/8         |
| IHRC-12N-4N  | 3/4         | 1/4         |
| IHRC-12N-8N  | 3/4         | 1/2         |
| IHRC-16N-8N  | 1           | 1/2         |
| IHRC-16N-12N | 1           | 3/4         |

## IPP

Pipe Plug



| Part No. | Thread Size |
|----------|-------------|
| NPT      | Male        |
| IPP-2N   | 1/8         |
| IPP-4N   | 1/4         |

### IPP - Continued

|         |     |
|---------|-----|
| IPP-6N  | 3/8 |
| IPP-8N  | 1/2 |
| IPP-12N | 3/4 |
| IPP-16N | 1   |

## IPC

Pipe Cap



| Part No. | Thread Size |
|----------|-------------|
| NPT      | Female      |
| IPC-2N   | 1/8         |
| IPC-4N   | 1/4         |
| IPC-6N   | 3/8         |
| IPC-8N   | 1/2         |
| IPC-12N  | 3/4         |
| IPC-16N  | 1           |

## IFE

Female Elbow



| Part No. | Thread Size |
|----------|-------------|
| NPT      | Female      |
| IFE-2N   | 1/8         |
| IFE-4N   | 1/4         |
| IFE-6N   | 3/8         |
| IFE-8N   | 1/2         |
| IFE-12N  | 3/4         |
| IFE-16N  | 1           |

## ISE

Street Elbow



| Part No. | Thread Size    |
|----------|----------------|
| NPT      | Male to Female |
| ISE-2N   | 1/8            |
| ISE-4N   | 1/4            |
| ISE-6N   | 3/8            |

### ISE - Continued

|         |     |
|---------|-----|
| ISE-8N  | 1/2 |
| ISE-12N | 3/4 |
| ISE-16N | 1   |

## IRSE

Reducing Street Elbow



| Part No.    | Thread Size | Thread Size |
|-------------|-------------|-------------|
| NPT         | Female      | Male        |
| IRSE-2N-1N  | 1/8         | 1/16        |
| IRSE-4N-2N  | 1/4         | 1/8         |
| IRSE-6N-4N  | 3/8         | 1/4         |
| IRSE-8N-4N  | 1/2         | 1/4         |
| IRSE-8N-6N  | 1/2         | 3/8         |
| IRSE-12N-8N | 3/4         | 1/2         |
| IRSE-16N-8N | 1           | 1/2         |

## IME

Male Elbow



| Part No. | Thread Size |
|----------|-------------|
| NPT      | Male        |
| IME-2N   | 1/8         |
| IME-4N   | 1/4         |
| IME-6N   | 3/8         |
| IME-8N   | 1/2         |
| IME-12N  | 3/4         |
| IME-16N  | 1           |

## IFT

Female Tee



| Part No. | Thread Size |
|----------|-------------|
| NPT      | Female      |
| IFT-2N   | 1/8         |

**IFT - Continued**

|         |     |
|---------|-----|
| IFT-4N  | 1/4 |
| IFT-6N  | 3/8 |
| IFT-8N  | 1/2 |
| IFT-12N | 3/4 |
| IFT-16N | 1   |

**IMT - Continued**

|         |     |
|---------|-----|
| IMT-6N  | 3/8 |
| IMT-8N  | 1/2 |
| IMT-12N | 3/4 |
| IMT-16N | 1   |

## Notes

## IBT

Branch Tee



| Part No. | Thread Size    |
|----------|----------------|
| NPT      | Male to Female |
| IBT-2N   | 1/8            |
| IBT-4N   | 1/4            |
| IBT-6N   | 3/8            |
| IBT-8N   | 1/2            |
| IBT-12N  | 3/4            |
| IBT-16N  | 1              |

## IFC

Female Cross



| Part No. | Thread Size |
|----------|-------------|
| NPT      | Female      |
| IFC-2N   | 1/8         |
| IFC-4N   | 1/4         |
| IFC-6N   | 3/8         |
| IFC-8N   | 1/2         |
| IFC-12N  | 3/4         |
| IFC-16N  | 1           |

## IRT

Run Tee



| Part No. | Thread Size    |
|----------|----------------|
| NPT      | Male to Female |
| IRT-2N   | 1/8            |
| IRT-4N   | 1/4            |
| IRT-6N   | 3/8            |
| IRT-8N   | 1/2            |
| IRT-12N  | 3/4            |
| IRT-16N  | 1              |

## IMT

Male Tee



| Part No. | Thread Size |
|----------|-------------|
| NPT      | Male        |
| IMT-2N   | 1/8         |
| IMT-4N   | 1/4         |





# MAKO PRODUCTS VALVES

Mako Products has built a reputation as "The Source" for superior quality valves and fittings. The Mako lines of needle valves and ball valves have demonstrated proven track records as top performers in a wide range of industries. This, combined with a market leading value gives users the advantage in price and performance.

## **Mako Products** **Tough Under Pressure!**



## Needle Valves

### Standard 6,000 - 10,000 PSI



Available in 316 Stainless ●  
or Carbon ● Steel

| Part No.  | NPT Size | NPT Size |
|-----------|----------|----------|
| 6,000 PSI |          |          |
| Stainless | Female   | Female   |
| NS6S2F2F  | 1/4      | 1/4      |
| NS6S3F3F  | 3/8      | 3/8      |
| NS6S4F4F  | 1/2      | 1/2      |
| NS6S6F6F  | 3/4      | 3/4      |

| Standard - Continued |        |        |  |
|----------------------|--------|--------|--|
| NS6S8F8F             | 1      | 1      |  |
| Stainless            | Male   | Female |  |
| NS6S2M2F             | 1/4    | 1/4    |  |
| NS6S3M3F             | 3/8    | 3/8    |  |
| NS6S4M2F             | 1/2    | 1/4    |  |
| NS6S4M4F             | 1/2    | 1/2    |  |
| NS6S6M6F             | 3/4    | 3/4    |  |
| NS6S8M8F             | 1      | 1      |  |
| Carbon               | Female | Female |  |
| NC6S2F2F             | 1/4    | 1/4    |  |
| NC6S4F4F             | 1/2    | 1/2    |  |
| NC6S6F6F             | 3/4    | 3/4    |  |
| NC6S8F8F             | 1      | 1      |  |
| Carbon               | Male   | Female |  |
| NC6S2M2F             | 1/4    | 1/4    |  |
| NC6S3M3F             | 3/8    | 3/8    |  |
| NC6S4M2F             | 1/2    | 1/4    |  |
| NC6S4M4F             | 1/2    | 1/2    |  |
| NC6S6M6F             | 3/4    | 3/4    |  |
| NC6S8M8F             | 1      | 1      |  |
| 10,000 PSI           |        |        |  |
| Stainless            | Female | Female |  |
| NS10S2F2F            | 1/4    | 1/4    |  |

| Standard - Continued |        |        |  |
|----------------------|--------|--------|--|
| NS10S4F4F            | 1/2    | 1/2    |  |
| NS10S6F6F            | 3/4    | 3/4    |  |
| NS10S8F8F            | 1      | 1      |  |
| Stainless            | Male   | Female |  |
| NS10S2M2F            | 1/4    | 1/4    |  |
| NS10S2M4F            | 1/4    | 1/2    |  |
| NS10S3M3F            | 3/8    | 3/8    |  |
| NS10S4M2F            | 1/2    | 1/4    |  |
| NS10S4M4F            | 1/2    | 1/2    |  |
| NS10S6M6F            | 3/4    | 3/4    |  |
| NS10S8M8F            | 1      | 1      |  |
| Carbon               | Female | Female |  |
| NC10S2F2F            | 1/4    | 1/4    |  |
| NC10S4F4F            | 1/2    | 1/2    |  |
| NC10S6F6F            | 3/4    | 3/4    |  |
| NC10S8F8F            | 1      | 1      |  |
| Carbon               | Male   | Female |  |
| NC10S2M2F            | 1/4    | 1/4    |  |
| NC10S2M4F            | 1/4    | 1/2    |  |
| NC10S4M2F            | 1/2    | 1/4    |  |
| NC10S4M4F            | 1/2    | 1/2    |  |
| NC10S6M6F            | 3/4    | 3/4    |  |
| NC10S8M8F            | 1      | 1      |  |

### Bleed 6,000 PSI



Available in 316 Stainless ●  
or Carbon ● Steel

| Part No.  | NPT Size | NPT Size |
|-----------|----------|----------|
| Stainless | Male     | Female   |
| NS6B2M2F  | 1/4      | 1/4      |
| NS6B4M4F  | 1/2      | 1/2      |
| NS6B6M6F  | 3/4      | 3/4      |
| Carbon    | Female   | Female   |
| NC6B4F4F  | 1/2      | 1/2      |
| Carbon    | Male     | Female   |
| NC6B2M2F  | 1/4      | 1/4      |
| NC6B4M4F  | 1/2      | 1/2      |
| NC6B8M8F  | 1        | 1        |

## 90° Angle

6,000 - 10,000 PSI



Available in 316 Stainless • or Carbon • Steel

| Part No.   | NPT Size | NPT Size |
|------------|----------|----------|
| 6,000 PSI  |          |          |
| Stainless  | Male     | Female   |
| NS6A2M2F   | 1/4      | 1/4      |
| NS6A4M4F   | 1/2      | 1/2      |
| Carbon     | Male     | Female   |
| NC6A2M2F   | 1/4      | 1/4      |
| NC6A4M4F   | 1/2      | 1/2      |
| 10,000 PSI |          |          |
| Stainless  | Male     | Female   |
| NS10A2M2F  | 1/4      | 1/4      |
| NS10A4M4F  | 1/2      | 1/2      |
| Carbon     | Male     | Female   |
| NC10A2M2F  | 1/4      | 1/4      |
| NC10A4M4F  | 1/2      | 1/2      |

## Multi Port

6,000 - 10,000 PSI



Available in 316 Stainless • or Carbon • Steel

| Part No.  | NPT Size | NPT Size |
|-----------|----------|----------|
| 6,000 PSI |          |          |
| Stainless | Male     | Female   |
| NS6G4M4F  | 1/2      | 1/2      |
| NS6G6M4F  | 3/4      | 1/2      |
| NS6G6M6F  | 3/4      | 3/4      |
| Carbon    | Male     | Female   |
| NC6G4M4F  | 1/2      | 1/2      |

### Multi Port - Continued

10,000 PSI

|           |      |        |
|-----------|------|--------|
| Stainless | Male | Female |
| NS10G4M4F | 1/2  | 1/2    |
| NS10G6M4F | 3/4  | 1/2    |
| Carbon    | Male | Female |
| NC10G4M4F | 1/2  | 1/2    |

## Double Block & Bleed

10,000 PSI



Available in 316 Stainless •

| Part No.  | NPT Size | NPT Size |
|-----------|----------|----------|
| Stainless | Male     | Female   |
| NS10D4M4F | 1/2      | 1/2      |

## Mini Needle

Tee Handle  
6,000 PSI



Available in 316 Stainless • or Carbon • Steel

| Part No.  | NPT Size | NPT Size |
|-----------|----------|----------|
| Stainless | Female   | Female   |
| MTS2F2F   | 1/4      | 1/4      |
| Stainless | Male     | Female   |
| MTS2M2F   | 1/4      | 1/4      |
| Stainless | Male     | Male     |
| MTS2M2M   | 1/4      | 1/4      |
| Carbon    | Female   | Female   |
| MTC2F2F   | 1/4      | 1/4      |
| Carbon    | Male     | Female   |
| MTC2M2F   | 1/4      | 1/4      |
| Carbon    | Male     | Male     |
| MTC2M2M   | 1/4      | 1/4      |

## Slim Mini

Tee Handle  
6,000 PSI



Available in 316 Stainless •

| Part No.  | NPT Size | NPT Size |
|-----------|----------|----------|
| Stainless | Male     | Female   |
| MSS2M2F   | 1/4      | 1/4      |

## Angled Mini

Tee Handle  
6,000 PSI



Available in 316 Stainless • or Carbon • Steel

| Part No.  | NPT Size | NPT Size |
|-----------|----------|----------|
| Stainless | Male     | Female   |
| MTSA2M2F  | 1/4      | 1/4      |
| Carbon    | Male     | Female   |
| MTCA2M2F  | 1/4      | 1/4      |

## Mini Needle

Round Handle  
6,000 PSI



Available in 316 Stainless • or Carbon • Steel

| Part No.  | NPT Size | NPT Size |
|-----------|----------|----------|
| Stainless | Female   | Female   |
| MRS2F2F   | 1/4      | 1/4      |
| Stainless | Male     | Female   |
| MRS2M2F   | 1/4      | 1/4      |

### Round Mini Needle - Continued

|           |        |        |
|-----------|--------|--------|
| Stainless | Male   | Male   |
| MRS2M2M   | 1/4    | 1/4    |
| Carbon    | Female | Female |
| MRC2F2F   | 1/4    | 1/4    |
| Carbon    | Male   | Female |
| MRC2M2F   | 1/4    | 1/4    |

# Ball Valves

## 1000S

1,000 PSI Full Port



Available in 316 Stainless •

| Part No.  | NPT Size | NPT Size |
|-----------|----------|----------|
| Stainless | Female   | Female   |
| 1000S02   | 1/4      | 1/4      |
| 1000S03   | 3/8      | 3/8      |
| 1000S04   | 1/2      | 1/2      |
| 1000S06   | 3/4      | 3/4      |
| 1000S08   | 1        | 1        |
| 1000S010  | 1-1/4    | 1-1/4    |
| 1000S012  | 1-1/2    | 1-1/2    |
| 1000S016  | 2        | 2        |
| 1000S024  | 3        | 3        |

## 2000S02

2,000 PSI



Available in 316 Stainless •

| Part No.  | NPT Size | NPT Size |
|-----------|----------|----------|
| Stainless | Male     | Female   |
| 2000S02   | 1/4      | 1/4      |

## 2017

1,000-2,000 PSI  
Reduced Port



Available in 316 Stainless ●  
or Carbon ● Steel

| Part No.         | NPT Size | NPT Size |
|------------------|----------|----------|
| 1K PSI Stainless | Female   | Female   |
| 2017KS02         | 1/4      | 1/4      |
| 2017KS03         | 3/8      | 3/8      |
| 2017KS04         | 1/2      | 1/2      |
| 2017KS06         | 3/4      | 3/4      |
| 2017KS08         | 1        | 1        |
| 2017KS10         | 1-1/4    | 1-1/4    |
| 2017KS12         | 1-1/2    | 1-1/2    |
| 2017KS16         | 2        | 2        |
| 2017KS24         | 3        | 3        |
| 2017KS32         | 4        | 4        |
| 2K PSI Carbon    | Female   | Female   |
| 2017C02          | 1/4      | 1/4      |
| 2017C03          | 3/8      | 3/8      |
| 2017C04          | 1/2      | 1/2      |
| 2017C06          | 3/4      | 3/4      |
| 2017C08          | 1        | 1        |
| 2017C10          | 1-1/4    | 1-1/4    |
| 2017C12          | 1-1/2    | 1-1/2    |
| 2017C16          | 2        | 2        |

## 2006HL

2,000 PSI Full Port



Available in 316 Stainless ●  
or Carbon ● Steel

| Part No.  | NPT Size | NPT Size |
|-----------|----------|----------|
| Stainless | Female   | Female   |
| 2006HLS02 | 1/4      | 1/4      |
| 2006HLS03 | 3/8      | 3/8      |
| 2006HLS04 | 1/2      | 1/2      |
| 2006HLS06 | 3/4      | 3/4      |
| 2006HLS08 | 1        | 1        |

### 2006HL - Continued

|           |        |        |
|-----------|--------|--------|
| 2006HLS10 | 1-1/4  | 1-1/4  |
| 2006HLS12 | 1-1/2  | 1-1/2  |
| 2006HLS16 | 2      | 2      |
| 2006HLS24 | 3      | 3      |
| 2006HLS32 | 4      | 4      |
| Carbon    | Female | Female |
| 2006HLC02 | 1/4    | 1/4    |
| 2006HLC03 | 3/8    | 3/8    |
| 2006HLC04 | 1/2    | 1/2    |
| 2006HLC06 | 3/4    | 3/4    |
| 2006HLC08 | 1      | 1      |
| 2006HLC10 | 1-1/4  | 1-1/4  |
| 2006HLC12 | 1-1/2  | 1-1/2  |
| 2006HLC16 | 2      | 2      |
| 2006HLC24 | 3      | 3      |
| 2006HLC32 | 4      | 4      |

## 3600

3,600 PSI  
Fire Safe



Available in 316 Stainless ●  
or Carbon ● Steel

| Part No.  | NPT Size | NPT Size |
|-----------|----------|----------|
| Stainless | Female   | Female   |
| 3600S02   | 1/4      | 1/4      |
| 3600S03   | 3/8      | 3/8      |
| 3600S04   | 1/2      | 1/2      |
| 3600S06   | 3/4      | 3/4      |
| 3600S08   | 1        | 1        |
| 3600S10   | 1-1/4    | 1-1/4    |
| 3600S12   | 1-1/2    | 1-1/2    |
| 3600S16   | 2        | 2        |
| Carbon    | Female   | Female   |
| 3600C02   | 1/4      | 1/4      |
| 3600C03   | 3/8      | 3/8      |
| 3600C04   | 1/2      | 1/2      |
| 3600C06   | 3/4      | 3/4      |
| 3600C08   | 1        | 1        |
| 3600C10   | 1-1/4    | 1-1/4    |
| 3600C12   | 1-1/2    | 1-1/2    |
| 3600C16   | 2        | 2        |

## 6000

6,000 PSI  
Fire Safe



Available in 316 Stainless ●  
or Carbon ● Steel

| Part No.  | NPT Size | NPT Size |
|-----------|----------|----------|
| Stainless | Female   | Female   |
| 6000S02   | 1/4      | 1/4      |
| 6000S03   | 3/8      | 3/8      |
| 6000S04   | 1/2      | 1/2      |
| 6000S06   | 3/4      | 3/4      |
| 6000S08   | 1        | 1        |
| 6000S10   | 1-1/4    | 1-1/4    |
| 6000S12   | 1-1/2    | 1-1/2    |
| 6000S16   | 2        | 2        |
| Carbon    | Female   | Female   |
| 6000C02   | 1/4      | 1/4      |
| 6000C03   | 3/8      | 3/8      |
| 6000C04   | 1/2      | 1/2      |
| 6000C06   | 3/4      | 3/4      |
| 6000C08   | 1        | 1        |
| 6000C10   | 1-1/4    | 1-1/4    |
| 6000C12   | 1-1/2    | 1-1/2    |
| 6000C16   | 2        | 2        |

## 2006 ISO

1,500-2,000 PSI  
Isolator valve



Available in 316 Stainless ●  
or Carbon ● Steel

| Part No.                       | NPT Size | NPT Size | NPT Size |
|--------------------------------|----------|----------|----------|
| Stainless                      | Male     | Fml      | Iso      |
| 2006S-ISO-08N-02N<br>2,000 PSI | 1        | 1        | 1/4      |
| 2006S-ISO-16N-02N<br>1,500 PSI | 2        | 2        | 1/4      |
| Carbon                         | Male     | Fml      | Iso      |
| 2006C-ISO-08N-02N<br>2,000 PSI | 1        | 1        | 1/4      |
| 2006C-ISO-16N-02N<br>1,500 PSI | 2        | 2        | 1/4      |

3600 and 6000 series  
fire safe valves are  
all full port except  
for their 2" versions  
which have reduced  
size ports.

## 2006SR

2,000 PSI  
Spring Return



Available in 316 Stainless ●

| Part No.  | NPT Size | NPT Size |
|-----------|----------|----------|
| Stainless | Female   | Female   |
| 2006SR02  | 1/4      | 1/4      |
| 2006SR03  | 3/8      | 3/8      |

# Check Valves

## ICS

Inline Check Valve



Available in 316 Stainless ●  
or Brass Upon Request

| Part No. | Inlet Size | Outlet Size |
|----------|------------|-------------|
| NPT      | Female     | Female      |
| ICS62F2F | 1/4        | 1/4         |
| ICS63F3F | 3/8        | 3/8         |
| ICS64F4F | 1/2        | 1/2         |
| NPT      | Male       | Female      |
| ICS61M1F | 1/8        | 1/8         |
| ICS61M2F | 1/8        | 1/4         |
| ICS62M2F | 1/4        | 1/4         |
| ICS64M4F | 1/2        | 1/2         |
| ICS66M6F | 3/4        | 3/4         |
| ICS68M8F | 1          | 1           |





# SUPERLOK VALVES

Superlok's precision instrumentation valves have set the industry standard. Through decades of development, refinement, and experience, our valves have been engineered to perform flawlessly. From ball valves to relief valves and needle valves, Superlok manufactures the right valve for your job. When it has to work right the first time and every time, you can count on Superlok valves to perform.



**EVERY VALVE IS FACTORY PRESSURE TESTED**



## Available valve types include:

Check Valves, Manifold Valves, Ball Valves, Needle Valves, Globe Valves, Relief Valves, Excess Flow Valves, High Pressure Valves, Plug Valves, Toggle Valves, Bleed Valves, Purge Valves, Cryogenic Valves, Gate Valves, Block & Bleed Valves, Monoflange Valves, and Key Operated Valves.



## Needle Valves

### SINV Integral Bonnet



| Part No.  | Inlet Size | Outlet Size |
|-----------|------------|-------------|
| NPT       | Female     | Female      |
| SINV1-F2N | 1/8        | 1/8         |
| SINV3-F4N | 1/4        | 1/4         |
| SINV4-F8N | 1/2        | 1/2         |
| NPT       | Male       | Male        |
| SINV1-M2N | 1/8        | 1/8         |

| SINV - Continued |      |        |
|------------------|------|--------|
| SINV1-M4N        | 1/4  | 1/4    |
| SINV2-M4N        | 1/4  | 1/4    |
| SINV3-M6N        | 3/8  | 3/8    |
| SINV4-M8N        | 1/2  | 1/2    |
| NPT              | Male | Female |
| SINV3-M4N-F4N    | 1/4  | 1/4    |
| SINV4-M8N-F8N    | 1/2  | 1/2    |
| Tube             | Tube | Tube   |
| SINV1-S2         | 1/8  | 1/8    |
| SINV1-S3M        | 3mm  | 3mm    |
| SINV12-S4        | 1/4  | 1/4    |
| SINV12-S6M       | 6mm  | 6mm    |
| SINV12-S8M       | 8mm  | 8mm    |
| SINV13-S6        | 3/8  | 3/8    |
| SINV13-S8        | 1/2  | 1/2    |
| SINV13-S10M      | 10mm | 10mm   |
| SINV13-S12M      | 12mm | 12mm   |
| SINV14-S8        | 1/2  | 1/2    |
| SINV14-S12       | 3/4  | 3/4    |
| NPT to Tube      | Male | Tube   |
| SINV1-M2N-S2     | 1/8  | 1/8    |
| SINV12-M4N-S4    | 1/4  | 1/4    |
| SINV13-M4N-S6    | 1/4  | 3/8    |
| SINV13-M6N-S6    | 3/8  | 3/8    |
| SINV13-M6N-S8    | 3/8  | 1/2    |

**SINV Standard Material:**  
**316L Stainless Steel**  
For a full list of available materials see Page 5

**Standard Stem Type:**  
**Regulating**  
Optional Stem Types:  
Vee

### SUNV Union Bonnet



| Part No.  | Inlet Size | Outlet Size |
|-----------|------------|-------------|
| NPT       | Female     | Female      |
| SUNV1-F2N | 1/8        | 1/8         |
| SUNV1-F4N | 1/4        | 1/4         |
| SUNV2-F4N | 1/4        | 1/4         |
| SUNV2-F6N | 3/8        | 3/8         |

| SUNV - Continued |      |        |
|------------------|------|--------|
| SUNV3-F8N        | 1/2  | 1/2    |
| SUNV3-F12N       | 3/4  | 3/4    |
| SUNV3-F16N       | 1    | 1      |
| NPT              | Male | Male   |
| SUNV1-M2N        | 1/8  | 1/8    |
| NPT              | Male | Female |
| SUNV1-M4N-F4N    | 1/4  | 1/4    |
| SUNV3-M8N-F8N    | 1/2  | 1/2    |
| SUNV3-M12N-F12N  | 3/4  | 3/4    |
| SUNV3-M16N-F16N  | 1    | 1      |
| Tube             | Tube | Tube   |
| SUNV11-S4        | 1/4  | 1/4    |
| SUNV11-S6M       | 6mm  | 6mm    |
| SUNV11-S8M       | 8mm  | 8mm    |
| SUNV12-S6        | 3/8  | 3/8    |
| SUNV12-S8        | 1/2  | 1/2    |
| SUNV12-S10M      | 10mm | 10mm   |
| SUNV12-S12M      | 12mm | 12mm   |
| SUNV13-S8        | 1/2  | 1/2    |
| SUNV13-S12       | 3/4  | 3/4    |
| SUNV13-S16       | 1    | 1      |
| SUNV13-S12M      | 12mm | 12mm   |
| Socket Weld      | Tube | Tube   |
| SUNV1-SW4T       | 1/4  | 1/4    |
| SUNV2-SW6T       | 3/8  | 3/8    |

| SUNV - Continued |      |      |
|------------------|------|------|
| SUNV2-SW8T       | 1/2  | 1/2  |
| SUNV3-SW8T       | 1/2  | 1/2  |
| SUNV3-SW12T      | 3/4  | 3/4  |
| Socket Weld      | Pipe | Pipe |
| SUNV2-SW4P       | 1/4  | 1/4  |
| SUNV3-SW8P       | 1/2  | 1/2  |

**SUNV Standard Material:**  
316L Stainless Steel  
For a full list of available materials see Page 5

**Standard Stem Type:**  
Regulating  
Optional Stem Types:  
Non Rotating, Vee, and Soft Seat

## SBNV Integral Bonnet Bar Stock



| Part No.       | Inlet Size | Outlet Size |
|----------------|------------|-------------|
| NPT            | Female     | Female      |
| SBNV1-F4N      | 1/4        | 1/4         |
| SBNV2-F6N      | 3/8        | 3/8         |
| SBNV2-F8N      | 1/2        | 1/2         |
| NPT            | Male       | Male        |
| SBNV1-M4N      | 1/4        | 1/4         |
| NPT            | Male       | Female      |
| SBNV1-M4N-F4N  | 1/4        | 1/4         |
| SBNV2-M6N-F6N  | 3/8        | 3/8         |
| SBNV2-M8N-F8N  | 1/2        | 1/2         |
| SBNV2-M12N-F8N | 3/4        | 1/2         |
| Tube           | Tube       | Tube        |
| SBNV1-S4       | 1/4        | 1/4         |
| SBNV2-S6       | 3/8        | 3/8         |
| SBNV2-S8       | 1/2        | 1/2         |
| NPT To Tube    | Male       | Tube        |
| SBNV1-M4N-S4   | 1/4        | 1/4         |
| SBNV1-M6N-S8   | 3/8        | 1/2         |

**SBNV Standard Material:**  
316L Stainless Steel  
For a full list of available materials see Page 5  
**Standard Stem Type:**  
Vee  
Optional Stem Types:  
Soft Seat

## Ball Valves

### SBVI120H One-Piece



| Part No.         | Inlet Size | Outlet Size |
|------------------|------------|-------------|
| NPT              | Female     | Female      |
| SBV120H1-F2N     | 1/8        | 1/8         |
| SBV120H2-F4N     | 1/4        | 1/4         |
| SBV120H3-F4N     | 1/4        | 1/4         |
| SBV120H3-F6N     | 3/8        | 3/8         |
| SBV120H4-F8N     | 1/2        | 1/2         |
| NPT              | Male       | Male        |
| SBV120H2-M4N     | 1/4        | 1/4         |
| Tube             | Tube       | Tube        |
| SBV120H1-S1      | 1/16       | 1/16        |
| SBV120H1-S3M     | 3mm        | 3mm         |
| SBV120H1-S2      | 1/8        | 1/8         |
| SBVI120H1-S6M    | 6mm        | 6mm         |
| SBVI120H1-S4     | 1/4        | 1/4         |
| SBVI120H2-S6M    | 6mm        | 6mm         |
| SBVI120H2-S4     | 1/4        | 1/4         |
| SBVI120H2-S8M    | 8mm        | 8mm         |
| SBVI120H2-S6     | 3/8        | 3/8         |
| SBVI120H3-S6     | 3/8        | 3/8         |
| SBVI120H3-S10M   | 10mm       | 10mm        |
| SBVI120H4-S12M   | 12mm       | 12mm        |
| SBVI120H4-S8     | 1/2        | 1/2         |
| SBVI120H4-S12    | 3/4        | 3/4         |
| NPT to Tube      | Male       | Tube        |
| SBVI120H2-M4N-S4 | 1/4        | 1/4         |
| ISO Tapered      | Female     | Female      |
| SBV120H2-F4R     | 1/4        | 1/4         |
| SBV120H3-F6R     | 3/8        | 3/8         |
| SBV120H4-F8R     | 1/2        | 1/2         |

**SBVI Standard Material:**  
316L Stainless Steel  
For a full list of available materials see Page 5

### SBVI120H One-Piece 3-Way



| Part No.          | Inlet Size | Outlet Size |
|-------------------|------------|-------------|
| NPT               | Female     | Female      |
| SBV120H13-F2N     | 1/8        | 1/8         |
| SBV120H23-F4N     | 1/4        | 1/4         |
| SBV120H33-F4N     | 1/4        | 1/4         |
| SBV120H33-F6N     | 3/8        | 3/8         |
| SBV120H43-F8N     | 1/2        | 1/2         |
| Tube              | Tube       | Tube        |
| SBV120H13-S1      | 1/16       | 1/16        |
| SBV120H13-S3M     | 3mm        | 3mm         |
| SBV120H13-S2      | 1/2        | 1/2         |
| SBVI120H13-S6M    | 6mm        | 6mm         |
| SBVI120H13-S4     | 1/4        | 1/4         |
| SBVI120H23-S6M    | 6mm        | 6mm         |
| SBVI120H23-S4     | 1/4        | 1/4         |
| SBVI120H23-S8M    | 8mm        | 8mm         |
| SBVI120H33-S6     | 3/8        | 3/8         |
| SBVI120H33-S10M   | 10mm       | 10mm        |
| SBVI120H43-S12M   | 12mm       | 12mm        |
| SBVI120H43-S8     | 1/2        | 1/2         |
| SBVI120H43-S12    | 3/4        | 3/4         |
| NPT to Tube       | Male       | Tube        |
| SBVI120H23-M4N-S4 | 1/4        | 1/4         |
| ISO Tapered       | Female     | Female      |
| SBV120H23-F4R     | 1/4        | 1/4         |
| SBV120H33-F6R     | 3/8        | 3/8         |
| SBV120H43-F8R     | 1/2        | 1/2         |

### SBVI210 Two-Piece



| Part No.   | Inlet Size | Outlet Size |
|------------|------------|-------------|
| NPT        | Female     | Female      |
| SBV210-F4N | 1/4        | 1/4         |

### SBVI210 - Continued

|              |      |      |
|--------------|------|------|
| SBV210-F6N   | 3/8  | 3/8  |
| SBV210-F8N   | 1/2  | 1/2  |
| SBV210-F12N  | 3/4  | 3/4  |
| SBV210-F16N  | 1    | 1    |
| Tube         | Tube | Tube |
| SBVI210-S6M  | 6mm  | 6mm  |
| SBVI210-S4   | 1/4  | 1/4  |
| SBVI210-S10M | 10mm | 10mm |
| SBVI210-S6   | 3/8  | 3/8  |
| SBVI210-S12M | 12mm | 12mm |
| SBVI210-S8   | 1/2  | 1/2  |
| SBVI210-S16M | 16mm | 16mm |
| SBVI210-S10  | 5/8  | 5/8  |
| SBVI210-S12  | 3/4  | 3/4  |
| SBVI210-S16  | 1    | 1    |

**SBVI Standard Material:**  
316L Stainless Steel  
For a full list of available materials see Page 5

### SBVTI210 Two-Piece Tee



| Part No.     | Inlet Size | Outlet Size |
|--------------|------------|-------------|
| Tube         | Tube       | Tube        |
| SBVTI210-S4  | 1/4        | 1/4         |
| SBVTI210-S6  | 3/8        | 3/8         |
| SBVTI210-S8  | 1/2        | 1/2         |
| SBVTI210-S12 | 3/4        | 3/4         |
| SBVTI210-S16 | 1          | 1           |

### SBVFI360 Forged High Pressure



| Part No.     | Inlet Size | Outlet Size |
|--------------|------------|-------------|
| NPT          | Female     | Female      |
| SBVF3601-F2N | 1/8        | 1/8         |

| SBVFI360 - Continued |      |      |
|----------------------|------|------|
| SBVF3602-F4N         | 1/4  | 1/4  |
| SBVF3603-F6N         | 3/8  | 3/8  |
| SBVF3603-F8N         | 1/2  | 1/2  |
| NPT                  | Male | Male |
| SBVF3601-M2N         | 1/8  | 1/8  |
| SBVF3601-M4N         | 1/4  | 1/4  |
| SBVF3602-M4N         | 1/4  | 1/4  |
| SBVF3602-M6N         | 3/8  | 3/8  |
| SBVF3603-M8N         | 1/2  | 1/2  |
| Tube                 | Tube | Tube |
| SBVF3601-S2          | 1/8  | 1/8  |
| SBVFI3601-S4         | 1/4  | 1/4  |
| SBVF3601-S3M         | 3mm  | 3mm  |
| SBVFI3602-S4         | 1/4  | 1/4  |
| SBVFI3602-S6         | 3/8  | 3/8  |
| SBVFI3602-S6M        | 6mm  | 6mm  |
| SBVFI3602-S8M        | 8mm  | 8mm  |
| SBVFI3602-S10M       | 10mm | 10mm |
| SBVFI3603-S8         | 1/2  | 1/2  |
| SBVFI3603-S12        | 3/4  | 3/4  |
| SBVFI3603-S12M       | 12mm | 12mm |
| SBVFI3603-S16M       | 16mm | 16mm |

SBVF360 series valves are available in 316 Stainless Steel only.

| SBVFI360<br>Forged High Pressure 3-Way<br>SUPERLOK®                                 |            |             |
|-------------------------------------------------------------------------------------|------------|-------------|
|  |            |             |
| Part No.                                                                            | Inlet Size | Outlet Size |
| NPT                                                                                 | Female     | Female      |
| SBVF36013-F2N                                                                       | 1/8        | 1/8         |
| SBVF36023-F4N                                                                       | 1/4        | 1/4         |
| SBVF36033-F6N                                                                       | 3/8        | 3/8         |
| SBVF36033-F8N                                                                       | 1/2        | 1/2         |
| NPT                                                                                 | Male       | Male        |
| SBVF36013-M2N                                                                       | 1/8        | 1/8         |
| SBVF36013-M4N                                                                       | 1/4        | 1/4         |
| SBVF36023-M4N                                                                       | 1/4        | 1/4         |
| SBVF36023-M6N                                                                       | 3/8        | 3/8         |
| SBVF36033-M8N                                                                       | 1/2        | 1/2         |
| Tube                                                                                | Tube       | Tube        |
| SBVF36013-S2                                                                        | 1/8        | 1/8         |

| SBVFI360 - Continued |      |      |
|----------------------|------|------|
| SBVFI36013-S4        | 1/4  | 1/4  |
| SBVF36013-S3M        | 3mm  | 3mm  |
| SBVFI36023-S4        | 1/4  | 1/4  |
| SBVFI36023-S6        | 3/8  | 3/8  |
| SBVFI36023-S6M       | 6mm  | 6mm  |
| SBVFI36023-S8M       | 8mm  | 8mm  |
| SBVFI36023-S10M      | 10mm | 10mm |
| SBVFI36033-S8        | 1/2  | 1/2  |
| SBVFI36033-S12       | 3/4  | 3/4  |
| SBVFI36033-S12M      | 12mm | 12mm |
| SBVFI36033-S16M      | 16mm | 16mm |

| SBTI<br>Trunnion Ball Valve<br>6,000 PSI<br>SUPERLOK®                             |            |             |
|-----------------------------------------------------------------------------------|------------|-------------|
|  |            |             |
| Part No.                                                                          | Inlet Size | Outlet Size |
| NPT                                                                               | Female     | Female      |
| SBT2-F2N                                                                          | 1/8        | 1/8         |
| SBT2-F4N                                                                          | 1/4        | 1/4         |
| Tube                                                                              | Tube       | Tube        |
| SBTI2-S4                                                                          | 1/2        | 1/4         |
| SBTI2-S6                                                                          | 3/8        | 3/8         |
| SBTI2-S8                                                                          | 1/2        | 1/2         |
| SBTI2-S6M                                                                         | 6mm        | 6mm         |
| SBTI2-S8M                                                                         | 8mm        | 8mm         |
| SBTI2-S10M                                                                        | 10mm       | 10mm        |
| SBTI2-S12M                                                                        | 12mm       | 2mm         |

| SBTI3<br>Trunnion 3-Way Valve 6,000 PSI<br>SUPERLOK®                                |            |             |
|-------------------------------------------------------------------------------------|------------|-------------|
|  |            |             |
| Part No.                                                                            | Inlet Size | Outlet Size |
| NPT                                                                                 | Female     | Female      |
| SBT3-F2N                                                                            | 1/8        | 1/8         |
| SBT3-F4N                                                                            | 1/4        | 1/4         |

| SBTI - Continued |      |      |
|------------------|------|------|
| Tube             | Tube | Tube |
| SBTI3-S4         | 1/2  | 1/4  |
| SBTI3-S6         | 3/8  | 3/8  |
| SBTI3-S8         | 1/2  | 1/2  |
| SBTI3-S6M        | 6mm  | 6mm  |
| SBTI3-S8M        | 8mm  | 8mm  |
| SBTI3-S10M       | 10mm | 10mm |
| SBTI3-S12M       | 12mm | 12mm |

| SBTHI<br>High Pressure Trunnion Ball Valve<br>10,000 PSI<br>SUPERLOK®              |            |             |
|------------------------------------------------------------------------------------|------------|-------------|
|  |            |             |
| Part No.                                                                           | Inlet Size | Outlet Size |
| NPT                                                                                | Female     | Female      |
| SBTH2-F2N                                                                          | 1/8        | 1/8         |
| SBTH2-F4N                                                                          | 1/4        | 1/4         |
| Tube                                                                               | Tube       | Tube        |
| SBTHI2-S4                                                                          | 1/4        | 1/4         |
| SBTHI2-S6                                                                          | 3/8        | 3/8         |
| SBTHI2-S8                                                                          | 1/2        | 1/2         |
| SBTHI2-S6M                                                                         | 6mm        | 6mm         |
| SBTHI2-S8M                                                                         | 8mm        | 8mm         |
| SBTHI2-S10M                                                                        | 10mm       | 10mm        |
| SBTHI2-S12M                                                                        | 12mm       | 12mm        |

| SBTHI3<br>High Pressure Trunnion 3-Way Valve 10,000 PSI<br>SUPERLOK®                 |            |             |
|--------------------------------------------------------------------------------------|------------|-------------|
|  |            |             |
| Part No.                                                                             | Inlet Size | Outlet Size |
| NPT                                                                                  | Female     | Female      |
| SBTH3-F2N                                                                            | 1/8        | 1/8         |
| SBTH3-F4N                                                                            | 1/4        | 1/4         |
| Tube                                                                                 | Tube       | Tube        |
| SBTHI3-S4                                                                            | 1/4        | 1/4         |

| SBTHI - Continued |      |      |
|-------------------|------|------|
| SBTHI3-S6         | 3/8  | 3/8  |
| SBTHI3-S8         | 1/2  | 1/2  |
| SBTHI3-S6M        | 6mm  | 6mm  |
| SBTHI3-S8M        | 8mm  | 8mm  |
| SBTHI3-S10M       | 10mm | 10mm |
| SBTHI3-S12M       | 12mm | 12mm |

## SWB320I Swing Out Ball Valve SUPERLOK®



| Part No.      | Inlet Size | Outlet Size |
|---------------|------------|-------------|
| NPT           | Female     | Female      |
| SWB3201-F2N   | 1/8        | 1/8         |
| SWB3201-F4N   | 1/4        | 1/4         |
| SWB3202-F6N   | 3/8        | 3/8         |
| SWB3202-F8N   | 1/2        | 1/2         |
| SWB3203-F12N  | 3/4        | 3/4         |
| SWB3203-F16N  | 1          | 1           |
| SWB3204-F20N  | 1-1/4      | 1-1/4       |
| SWB3204-F24N  | 1-1/2      | 1-1/2       |
| SWB3205-F32N  | 2          | 2           |
| Tube          | Tube       | Tube        |
| SWB3201I-S4   | 1/4        | 1/4         |
| SWB3201I-S6   | 3/8        | 3/8         |
| SWB3201I-S6M  | 6mm        | 6mm         |
| SWB3201I-S8M  | 8mm        | 8mm         |
| SWB3201I-S10M | 10mm       | 10mm        |
| SWB3202I-S8   | 1/2        | 1/2         |
| SWB3202I-S12  | 3/4        | 3/4         |
| SWB3202I-S12M | 12mm       | 12mm        |
| SWB3203I-S16  | 1          | 1           |
| SWB3203I-S25M | 25mm       | 25mm        |
| SWB3203-S24   | 1-1/2      | 1-1/2       |
| SWB3203-S32   | 2          | 2           |
| ISO Tapered   | Female     | Female      |
| SWB3201-F4R   | 1/4        | 1/4         |
| SWB3202-F8R   | 1/2        | 1/2         |
| SWB3203-F12R  | 3/4        | 3/4         |
| SWB3203-F16R  | 1          | 1           |
| SWB3204-F24R  | 1-1/2      | 1-1/2       |
| SWB3205-F32R  | 2          | 2           |
| Socket Weld   | Tube       | Tube        |
| SWB3201-SW4T  | 1/4        | 1/4         |



| SWB320 - Continued |       |       |
|--------------------|-------|-------|
| SWB3201-SW6T       | 3/8   | 3/8   |
| SWB3202-SW8T       | 1/2   | 1/2   |
| SWB3202-SW12T      | 3/4   | 3/4   |
| SWB3203-SW16T      | 1     | 1     |
| SWB3204-SW20T      | 1-1/4 | 1-1/4 |
| SWB3204-SW24T      | 1-1/2 | 1-1/2 |
| SWB3205-SW32T      | 2     | 2     |
| Socket Weld        | PIPE  | PIPE  |
| SWB3202-SW8P       | 1/2   | 1/2   |
| SWB3203-SW12P      | 3/4   | 3/4   |
| SWB3203-SW16P      | 1     | 1     |
| SWB3204-SW20P      | 1-1/4 | 1-1/4 |
| SWB3204-SW24P      | 1-1/2 | 1-1/2 |
| SWB3205-SW32P      | 2     | 2     |

SWB320 series valves are also available in butt weld connection options. Call for sizing and availability. This valve comes in 316 stainless only.

## SBVHI360

Three-Piece High Pressure  
SUPERLOK®



| Part No.      | Inlet Size | Outlet Size |
|---------------|------------|-------------|
| NPT           | Female     | Female      |
| SBVH3601-F4N  | 1/4        | 1/4         |
| SBVH3601-F6N  | 3/8        | 3/8         |
| SBVH3601-F8N  | 1/2        | 1/2         |
| SBVH3602-F8N  | 1/2        | 1/2         |
| SBVH3602-F12N | 3/4        | 3/4         |
| SBVH3603-F12N | 3/4        | 3/4         |
| SBVH3603-F16N | 1          | 1           |
| NPT           | Male       | Male        |
| SBVH3601-M4N  | 1/4        | 1/4         |
| SBVH3601-M6N  | 3/8        | 3/8         |
| SBVH3601-M8N  | 1/2        | 1/2         |
| SBVH3603-M12N | 3/4        | 3/4         |
| SBVH3603-M16N | 1          | 1           |
| Tube          | Tube       | Tube        |
| SBVHI3601-S4  | 1/4        | 1/4         |
| SBVHI3601-S6  | 3/8        | 3/8         |
| SBVHI3601-S8  | 1/2        | 1/2         |
| SBVHI3602-S10 | 5/8        | 5/8         |

| SBVHI360 - Continued |     |     |
|----------------------|-----|-----|
| SBVHI3602-S12        | 3/4 | 3/4 |
| SBVHI3603-S12        | 3/4 | 3/4 |
| SBVHI3603-S16        | 1   | 1   |

**SBVH Standard Material:**  
**316L Stainless Steel**  
For a full list of available materials see Page 5

## SBVHI360

Three-Piece High Pressure 3-Way  
SUPERLOK®



| Part No.       | Inlet Size | Outlet Size |
|----------------|------------|-------------|
| NPT            | Female     | Female      |
| SBVH36013-F4N  | 1/4        | 1/4         |
| SBVH36013-F6N  | 3/8        | 3/8         |
| SBVH36013-F8N  | 1/2        | 1/2         |
| SBVH36023-F8N  | 1/2        | 1/2         |
| SBVH36023-F12N | 3/4        | 3/4         |
| SBVH36033-F12N | 3/4        | 3/4         |
| SBVH36033-F16N | 1          | 1           |
| Tube           | Tube       | Tube        |
| SBVHI36013-S4  | 1/4        | 1/4         |
| SBVHI36013-S6  | 3/8        | 3/8         |
| SBVHI36013-S8  | 1/2        | 1/2         |
| SBVHI36023-S10 | 5/8        | 5/8         |
| SBVHI36023-S12 | 3/4        | 3/4         |
| SBVHI36033-S12 | 3/4        | 3/4         |
| SBVHI36033-S16 | 1          | 1           |

## SPVI130

Plug Valve SUPERLOK®



| Part No.   | Inlet Size | Outlet Size |
|------------|------------|-------------|
| NPT        | Female     | Female      |
| SPV131-F2N | 1/8        | 1/8         |

| SPVI - Continued |      |        |
|------------------|------|--------|
| SPV131-F4N       | 1/4  | 1/4    |
| SPV132-F4N       | 1/4  | 1/4    |
| SPV132-F8N       | 1/2  | 1/2    |
| NPT              | Male | Male   |
| SPV131-M2N       | 1/8  | 1/8    |
| SPV131-M4N       | 1/4  | 1/4    |
| SPV132-M8N       | 1/2  | 1/2    |
| Tube             | Tube | Tube   |
| SPV131-S2        | 1/8  | 1/8    |
| SPVI131-S4       | 1/4  | 1/4    |
| SPVI131-S6M      | 6mm  | 6mm    |
| SPVI132-S8M      | 8mm  | 8mm    |
| SPVI132-S10M     | 10mm | 10mm   |
| SPVI132-S12M     | 12mm | 12mm   |
| SPVI132-S6       | 3/8  | 3/8    |
| SPVI132-S8       | 1/2  | 1/2    |
| NPT              | Male | Female |
| SPV131-M4N-F4N   | 1/4  | 1/4    |
| NPT to Tube      | Male | Tube   |
| SPVI131-M4N-S4   | 1/4  | 1/4    |

**SPV Standard Material:**  
**316L Stainless Steel**  
For a full list of available materials see Page 5

## Check Valves

### SOCV

One-Piece Check Valve SUPERLOK®



| Part No.      | Inlet Size | Outlet Size |
|---------------|------------|-------------|
| NPT           | Female     | Female      |
| SOCV2-F4N     | 1/4        | 1/4         |
| SOCV4-F8N     | 1/2        | 1/2         |
| NPT           | Male       | Male        |
| SOCV1-M4N     | 1/4        | 1/4         |
| SOCV3-M8N     | 1/2        | 1/2         |
| NPT           | Male       | Female      |
| SOCV2-M4N-F4N | 1/4        | 1/4         |
| SOCV4-M8N-F8N | 1/2        | 1/2         |

| SOCV - Continued |        |        |
|------------------|--------|--------|
| NPT              | Female | Male   |
| SOCV2-F4N-M4N    | 1/4    | 1/4    |
| ISO Tapered      | Female | Female |
| SOCV2-F4R        | 1/4    | 1/4    |
| ISO Tapered      | Male   | Male   |
| SOCV1-M4R        | 1/4    | 1/4    |

## SOACV

One-Piece Adjustable Check Valve



| Part No.    | Inlet Size | Outlet Size |
|-------------|------------|-------------|
| NPT         | Female     | Female      |
| SOACV2-F4N  | 1/4        | 1/4         |
| NPT         | Male       | Male        |
| SOACV1-M4N  | 1/4        | 1/4         |
| SOACV3-M8N  | 1/2        | 1/2         |
| ISO Tapered | Male       | Male        |
| SOACV1-M4R  | 1/4        | 1/4         |
| SOACV3-M8R  | 1/2        | 1/2         |

## SPCVI

Check Valve 3,000 PSI  
SUPERLOK®



| Part No.  | Inlet Size | Outlet Size |
|-----------|------------|-------------|
| NPT       | Female     | Female      |
| SPCV-F2N  | 1/8        | 1/8         |
| SPCV-F4N  | 1/4        | 1/4         |
| SPCV-F6N  | 3/8        | 3/8         |
| SPCV-F8N  | 1/2        | 1/2         |
| SPCV-F12N | 3/4        | 3/4         |
| SPCV-F16N | 1          | 1           |
| Tube      | Tube       | Tube        |
| SPCV-S2   | 1/8        | 1/8         |
| SPCVI-S4  | 1/4        | 1/4         |
| SPCVI-S6  | 3/8        | 3/8         |
| SPCVI-S8  | 1/2        | 1/2         |

| SPCVI - Continued |     |     |
|-------------------|-----|-----|
| SPCV-S10          | 5/8 | 5/8 |
| SPCVI-S12         | 3/4 | 3/4 |
| SPCVI-S16         | 1   | 1   |

## SACVI

Adjustable Check Valve



| Part No.     | Inlet Size | Outlet Size |
|--------------|------------|-------------|
| Tube         | Tube       | Tube        |
| SACVI-S4     | 1/4        | 1/4         |
| SACVI-S6M    | 6mm        | 6mm         |
| SACVI-S8M    | 8mm        | 8mm         |
| NPT to Tube  | Male       | Tube        |
| SACVI-M4N-S4 | 1/4        | 1/4         |

## SHCVI

Check Valve  
6,000 PSI



| Part No.   | Inlet Size | Outlet Size |
|------------|------------|-------------|
| NPT        | Female     | Female      |
| SHCV1-F4N  | 1/4        | 1/4         |
| SHCV2-F6N  | 3/8        | 3/8         |
| SHCV2-F8N  | 1/2        | 1/2         |
| SHCV3-F12N | 3/4        | 3/4         |
| SHCV3-F16N | 1          | 3/4         |
| NPT        | Male       | Male        |
| SHCV1-M2N  | 1/8        | 1/8         |
| SHCV1-M4N  | 1/4        | 1/4         |
| SHCV2-M6N  | 3/8        | 3/8         |
| SHCV2-M8N  | 1/2        | 1/2         |
| SHCV3-M12N | 3/4        | 3/4         |
| SHCV3-M16N | 1          | 1           |
| Tube       | Tube       | Tube        |
| SHCV1-S2   | 1/8        | 1/8         |
| SHCVI1-S4  | 1/4        | 1/4         |
| SHCVI1-S6M | 6mm        | 6mm         |
| SHCVI2-S6  | 3/8        | 3/8         |

| SHCV - Continued |      |      |
|------------------|------|------|
| SHCVI2-S8        | 1/2  | 1/2  |
| SHCVI2-S8M       | 8mm  | 8mm  |
| SHCVI2-S10M      | 10mm | 10mm |
| SHCVI2-S12M      | 12mm | 12mm |
| SHCVI3-S12       | 3/4  | 3/4  |
| SHCVI3-S16       | 1    | 1    |
| SHCV3-S22M       | 22mm | 22mm |
| SHCVI3-S25M      | 25mm | 25mm |

## SEFVI

Industrial Excess Flow Valve



| Part No.      | Inlet Size | Outlet Size |
|---------------|------------|-------------|
| NPT           | Female     | Female      |
| SEFV1-F2N     | 1/8        | 1/8         |
| SEFV1-F4N     | 1/4        | 1/4         |
| SEFV2-F6N     | 3/8        | 3/8         |
| SEFV2-F8N     | 1/2        | 1/2         |
| NPT           | Male       | Male        |
| SEFV1-M2N     | 1/8        | 1/8         |
| SEFV1-M4N     | 1/4        | 1/4         |
| SEFV2-M6N     | 3/8        | 3/8         |
| SEFV2-M8N     | 1/2        | 1/2         |
| NPT           | Male       | Female      |
| SEFV1-M4N-F4N | 1/4        | 1/4         |
| SEFV2-M6N-F6N | 3/8        | 3/8         |
| SEFV2-M8N-F8N | 1/2        | 1/2         |
| Tube          | Tube       | Tube        |
| SEFVI1-S4     | 1/4        | 1/4         |
| SEFVI1-S6M    | 6mm        | 6mm         |
| SEFVI2-S6     | 3/8        | 3/8         |
| SEFVI2-S8     | 1/2        | 1/2         |
| SEFVI2-S8M    | 8mm        | 8mm         |
| SEFVI2-S10M   | 10mm       | 10mm        |
| SEFVI2-S12M   | 12mm       | 12mm        |
| NPT to Tube   | Male       | Tube        |
| SEFVI1-M4N-S4 | 1/4        | 1/4         |
| SEFVI1-M8N-S6 | 1/2        | 3/8         |
| SEFVI1-M8N-S8 | 1/2        | 1/2         |

# Relief Valves

## SRVL

Low Pressure Relief Valve



| Part No.      | Inlet Size | Outlet Size |
|---------------|------------|-------------|
| NPT           | Male       | Female      |
| SRVL-M4N-F4N  | 1/4        | 1/4         |
| SRVL-M6N-F6N  | 3/8        | 3/8         |
| SRVL-M8N-F8N  | 1/2        | 1/2         |
| Tube          | Tube       | Tube        |
| SRVL-S4       | 1/4        | 1/4         |
| SRVL-S6M      | 6mm        | 6mm         |
| SRVL-S8M      | 8mm        | 8mm         |
| SRVL-S6       | 3/8        | 3/8         |
| SRVL-S8       | 1/2        | 1/2         |
| NPT to Tube   | Male       | Tube        |
| SRVL-M8N-S8   | 1/2        | 1/2         |
| SRVL-M8N-S12M | 1/2        | 12mm        |

## SRVH

High Pressure Relief Valve



| Part No.     | Inlet Size | Outlet Size |
|--------------|------------|-------------|
| NPT          | Male       | Female      |
| SRVH-M4N-F4N | 1/4        | 1/4         |
| SRVH-M6N-F6N | 3/8        | 3/8         |
| SRVH-M8N-F8N | 1/2        | 1/2         |
| Tube         | Tube       | Tube        |
| SRVH-S4      | 1/4        | 1/4         |
| SRVH-S6M     | 6mm        | 6mm         |

| SOCV - Continued |      |      |
|------------------|------|------|
| SRVH-S8M         | 8mm  | 8mm  |
| SRVH-S6          | 3/8  | 3/8  |
| SRVH-S8          | 1/2  | 1/2  |
| NPT to Tube      | Male | Tube |
| SRVH-M8N-S8      | 1/2  | 1/2  |
| SRVH-M8N-S12M    | 1/2  | 12mm |

# Bleed Valves

## SBLV

Bleed Valve



| Part No.  | Inlet Size | Outlet Size |
|-----------|------------|-------------|
| Tube      | Tube       | Tube        |
| SBLV-M2N  | 1/8        | 1/8         |
| SBLV-M4N  | 1/4        | 1/4         |
| SBLV-M6N  | 3/8        | 3/8         |
| SBLV-M8N  | 1/2        | 1/2         |
| SBLV-M12N | 3/4        | 3/4         |



# ADDITIONAL SERIES

Mako provides more than just tube fittings and valves. Whether it be simple things like tubing, tube benders, and clamps, or something more specialized like our Ultra High Purity line of fittings and valves, Mako Products has the parts you need for your system.

If you don't see the specific part that you're looking for in this section, feel free to call us at (844)-200-MAKO (6256). We would love to help you find that perfect part.



## Purge Valves

### Features:

- 4,000 PSI Rated
- Valve Cap is Captive to the Body
- Tee, Elbow, Union, and Straight Types Available
- Compact Design

### Connection Sizes:

- 1/8"-1/2" NPT
- 1/8"-1/2" Tube
- 6MM-8MM Tube



## Key Lock Ball Valves

### Features:

- 1,000-6,000 PSI Rated
- Locking Handle
- Compact Design
- Low Operating Torque

### Connection Sizes:

- 1/8"-1/2" NPT
- 1/8"-1" Tube
- 6MM-16MM Tube



## Manifold Valves

### Features:

- 6,000 PSI Rated
- 2,3, and 5 Valve Config.
- Remote Mountable
- Single or Dual Flange

### Connection Sizes:

- 1/2" NPT



## H-P Needle Valves

### Features:

- Up to 60,000 PSI Rated
- Two/Three Way Options
- Multi-Layer Teflon Packing with Nylon Back-up

### Connection Sizes:

- 1/4"-1" High-Pressure







## Toggle Valves

### Features:

- Up to 300 PSI
- Panel Mountable
- Fast Actuation

### Connection Sizes:

- 1/8"-3/8" NPT
- 1/8"-1/2" Tube
- 3MM-12MM Tube
- Combinations



## Push-on Hose Barb

### Features:

- Easy Assembly
- Rubber Finishing Cap
- Stainless or Brass
- Available Hose ID 1/4"-3/4"

### Connection Sizes:

- 1/4"-3/4" NPT
- 1/4"-3/4" Tube
- 1/4"-3/4" Hose



## Quick Connectors

### Features:

- Full Flow or Auto Close on Disconnect Available
- Easy Push/Pull Operation
- Tool Free Design

### Connection Sizes:

- 1/8"-1" NPT
- 1/8"-1" Tube
- 1/8"-1" ISO Parallel



## H-P Fittings

### Features:

- Up to 60,000 PSI Rated
- Coned & Threaded Connection
- Manufactured from Cold Worked 316 Stainless

### Connection Sizes:

- 1/4"-1" MP
- 1/8"-1" HP



## Cryogenic Valves

### Features:

- Extended Bonnets
- Cavity Pressure Relief
- Locking Devices
- Actuation Ready

### Connection Sizes:

- 1/2"-14" Butt Weld, Socket Weld, Threaded, Flanged, or Combinations



## Block & Bleed

### Features:

- One-Piece Forged Flange
- Fire Safe
- Locking and Anti-Tamper Device Options
- 1/2" NPT Bleed

### Connection Sizes:

- 1/2"-1" NPT
- 1/2"-16" Flange



## Tubing Benders

### Features:

- Patented Rotolok Design
- Comfortable Rubber Coated Handles
- Easy to Read Dial For Precision Angles
- Worm Gear Style Option
- Hand held or bench mount units available



## Tubing

### Features:

- Seamless or Welded
- Available in Coils, Braided Flex hose, or Sticks

### Connection Sizes:

- 1/16"-2" Stick
- 1/4"-1/2" Coil
- 3/8" Flex

## UHP Valves



### Features:

- All UHP Valves are Cleaned to be sanitary and Residue Free
- Pneumatic Operation Available
- Valves Are Individually Packed and Sealed

### Connection Sizes:

- 1/4"-4"
- Weld or BVC

## UHP Fittings



### Features:

- All UHP Fittings are Cleaned to be sanitary and Residue Free
- Double Melt
- Fittings Are Individually Packed and Sealed
- Electropolish Available

### Connection Sizes:

- 1/4"-4"
- Weld, BVC, NPT, and ISO

## 37° Flared Fittings



### Features:

- Smallest Seal Area
- Extra Tubing Support
- Increased Clamping Force
- Reduced Chance of Twisting Tubing

### Connection Sizes:

- 1/8"- 2" Tubing
- 1/8"-2" NPT
- 5/16" - 2-1/2" Unified Screw

## DIN Fittings



### Features:

- Bites Into Tubing for Higher Pressure Unions
- Ferrule Designed With Dual Cutting Edges
- Suitable for Low or High Pressure

### Connection Sizes:

- 4MM-38MM Tube
- 1/8"-1/2" Tube
- 6MM-12MM Tube

## Micron Filters



### Features:

- Up to 6,000 PSI Rated
- Inline or Tee Options
- Replaceable Sintered Filter Elements

### Connection Sizes:

- 1/8"-1/2" NPT
- 1/4"-1/2" Tube

## JIS Fittings



### Features:

- Designed for Medium to Heavy Wall Tubing
- Bites Into Tubing for a Strong Union

### Connection Sizes:

- 4MM-50MM Tube
- 1/8"-1-1/2" Tapered and Parallel Thread

## Gang Clamps



### Features:

- Up to 6,000 PSI Rated
- In-line or Tee Options
- Replaceable Sintered Filter Elements

### Connection Sizes:

- 1/8"-1/2" NPT
- 1/4"-1/2" Tube

# Certifications: Superlok, BMT Co. & Mako Products

## SUPERLOK QUALITY CERTIFICATIONS

| Division | Products                           | Cert No.                    | Certifying Agency                 |
|----------|------------------------------------|-----------------------------|-----------------------------------|
| Fittings | Bite Type Fittings for DIN2353     | 16/40011(E2)                | Lloyd's Register CoT Approval     |
| &        | Superlok Tube Fittings             | P-15269                     | DNV Cert. of Type Approval        |
| Valves   | Bite Type Fittings for DIN2353     | P15188                      | DNV Cert. of Type Approval        |
|          | SAE 37° Flared Tube Fittings       | TAP00000FH                  | DNV Cert. of Type Approval        |
|          | Superlok & Bite Type (JIS & KS)    | TA12682M                    | NK Cert. of Type Approval         |
|          | Superlok & Bite Type (JIS B2351)   | 15/40079                    | Lloyd's Register CoT Approval     |
|          | Superlok SAE J518 Flanged BV       | 15/40088                    | Lloyd's Register CoT Approval     |
|          | Superlok Tube Fittings             | KR110-B0-102116             | TUV NORD Cert. of Conformity      |
|          | Superlok Tube Fittings and Valves  | CRN# 0C11456.2              | ABSA / Canadian Registration #s   |
|          | Superlok Tube Fittings             | e4*79/2009*406?2010*0001*00 | RDW (EC Type-Approval Cert)       |
|          | Superlok Trunnion Ball Valve       | E4-110R-000308-00           | TUV NORD Approval                 |
|          | Superlok High Pressure Ball Valve  | E4-110R-000307-00           | TUV NORD Approval                 |
|          | Superlok HP Check Valve            | E4-110R-000309-00           | TUV NORD Approval                 |
|          | Superlok Micron Tee Filter         | E4-110R000311-00            | TUV NORD Approval                 |
|          | Superlok Tube Fittings             | K051-A0-0109-2002           | TUV NORD Inspection Report        |
|          | Superlok DBB Valve                 | B-50/2016-0023/0009-1       | SGS Fire Test Certificate         |
|          | Superlok Tube Fittings             | 18-HS1727522-PDA            | ABS Cert. of Design Assessment    |
|          | Superlok Tube Fittings and Valves  | RDWC-A1B-03                 | RDW Compliance Statement          |
|          | Superlok Tube & Bite Type Fittings | 20040/C0 BV                 | Bureau Veritas Type Approval Cert |

## SUPERLOK MANUFACTURING CERTIFICATIONS

| Type              | Issuing Body                       | Scope                              | Cert No.           |
|-------------------|------------------------------------|------------------------------------|--------------------|
| ISO 9001          | HSB                                | Design & MFG. of Valves & Fittings | Q 379              |
| ISO 1400          | Int'l Technology Quality Assurance | Design & MFG. of Valves & Fittings | 17-E-072-01        |
| OHSAS 18001       | Int'l Technology Quality Assurance | Design & MFG. of Valves & Fittings | 1-OH-0027-01       |
| KEPIC-MN          | KEPIC                              | Purchase, Const., Fab. & Mfg.      | MN-288             |
| API-6D            | API                                | Using Official API Monogram        | 6D-0699            |
| PED MODULE H      | HSB                                | Design & MFG. of Valves & Fittings | HSB UK-16-06-019   |
| ASME-N            | ASME                               | Class 1, 2, 3, & MC Fabrication    | N-3409             |
| ASME-NPT          | ASME                               | Class 1, 2, 3, & MC Fabrication    | N-3410             |
| ASME-NS           | ASME                               | Class 1, 2, 3, & MC Fabrication    | N-3411             |
| BV MODE II SCHEME | BV                                 | Recognition for BV Mode II Scheme  | SMS.W.II/69625/C.0 |
| 2007/35/EC        | RDW                                | Conformity of Production           | RDWC-A1B-02        |
| AEO               | KCS                                | Authorized Economic Operator       | KRAE03115093       |



# Return Policy & Disclaimer

ATTENTION: Please read carefully before using our products.

Consumers must abide by the specific installation guides and operation procedures with this equipment or they will not be considered replaceable.

## WARRANTIES

### Mako Products, LLC

All products distributed from Mako Products, LLC are guaranteed to be free from manufacturing defects for a period of one year from the date of shipment. If the product is determined to be defective within that period, the product will be replaced at no charge to the buyer if it falls under one or more of these specific conditions: (1) product failure was a result of a manufacturing defect and not damaged from an accident, alteration, misuse, abuse or contact with corrosive fluids, (2) the product was installed with proper care and operating practices, (3) proper notice and description of defective product was recorded to Mako Products, LLC before the product was shipped back from the buyer. Shipping expenses should not be assumed until verification and authorization have been granted from Mako Products, LLC.

### Superlok, BMT Co.

BMT warrants that Superlok tube fittings shall be free from defects in material and workmanship for the life of the product. The purchaser's solution shall be limited to replacement and installation of any parts that fail through a defect in material or workmanship.

Superlok tube fittings are manufactured to be 100% interchangeable with other tube fittings currently on the market. Superlok fully warrants the compatibility of its fittings with other manufacturers, provided the same strict manufacturing practices and tolerances are held by those manufacturers.

## RETURN POLICY

### Mako Products, LLC

- 1. ERRORS:** Regarding administrative or shorthand work - all quotations, orders, confirmations, invoices and other documents are subject to correction.
- 2. RETURNS:** Before products are returned, the correct form of authorization must be recorded to Mako Products, LLC. Buyers must acquire acknowledgment that an RMA (Return Merchandise Authorization) was created for the items being returned with the precise quantity for maximum assurance of returned credit. Shipping expenses should not be assumed unless they are verified from Mako Products, LLC. For guidelines on free returns, refer to ERRORS. Customer specified items are deemed non-returnable.
- 3. RESTOCKING FEE:** Returned products from customers may be subject to a restocking fee of 20%.
- 4. TRANSIT DAMAGE:** Notification to Mako Products, LLC is required if loss, damage or shortage of products via carrier should occur. All claims should be made as soon as possible and no later than five days after receipt of shipment. Loss or damage to materials is the responsibility of the carrier.
- 5. CANCELLATION:** Any regular stock item on back order is considered free of cancellation fee if the buyer wishes to waive the item. For special manufactured items, the cancellation charges may be up to 100%.







"Come to me, all you who are weary and burdened,  
and I will give you rest." Matthew 11:28

## Contact Mako Products

13823 Santa Fe Crossings Drive  
Edmond, OK 73013

**sales @ [mako-products.net](http://mako-products.net)**  
**Toll Free: 844-200-MAKO**  
**Local: 405-509-2665**

# SuperlokWorld.com

## Valve Series

- |                                 |                               |                           |
|---------------------------------|-------------------------------|---------------------------|
| ▪ Ball Valves                   | ▪ Manifold Valves             | ▪ Hydraulic Ball Valves   |
| ▪ Integral Bonnet Needle Valves | ▪ Double Block & Bleed Valves | ▪ Trunnion Ball Valves    |
| ▪ Union Bonnet Needle Valves    | ▪ Swing-Out Ball Valves       | ▪ Rising Plug Valves      |
| ▪ Check Valves                  | ▪ Toggle Valves               | ▪ Relief Valves           |
| ▪ High Pressure Check Valves    | ▪ Bleed & Purge Valves        | ▪ Cryogenic Needle Valves |
| ▪ High Pressure Needle Valves   | ▪ Quick Connectors            | ▪ Cryogenic Ball Valves   |
| ▪ Plug Valves                   | ▪ High Pressure Ball Valves   | ▪ Micron In-Line Filters  |

## Fitting Series

- Instrument Thread Fittings
- 37 Flared Tube Fittings
- O-Ring Face Seal Fittings
- Hose Connectors
- Push-On Hose Fittings
- DIN Fittings
- i-Fittings