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**Made in America is good business.** Not only do we make everything in America, we use American suppliers too. Buying American allows us to have better quality control and a more reliable supply chain. We can work more closely within our walls and with our suppliers to improve quality, reduce costs, and shorten lead times, which means faster service and better products for you.

**Support where it counts.** SSP products and services are supported by more than 4000 people and 350 distributor locations around the globe. For a distributor near you, contact SSP Customer Service or visit [www.mySSP.com/distributors](http://www.mySSP.com/distributors).

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# Visual Index

## Tube to Welded Systems

Tube Socket Weld Union



TSWU 29

Tube Socket Weld Elbow



TSWE 29

Male Pipe Weld Connector



MPWC 30

Male Pipe Weld Elbow



MPWE 30

## Tube Stub Connectors / Adapters

Bulkhead Reducer / Adapter



BR 31

Male Adapter



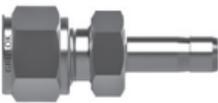
MA 31

Female Adapter



FA 32

Reducer / Adapter



R 33

Reducing Port Connector



RPC 34

Port Connector



PC 34

Calibration Union



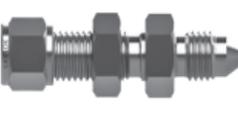
CU 35

Hose Barb Adapter

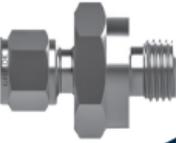
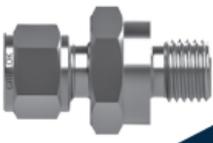


HBA 35

## Unilok to 37° Flare (AN)

<p>AN Union</p>  <p>ANU 36</p>	<p>AN Bulkhead Union</p>  <p>ANBU 36</p>	<p>Female AN Adapter</p>  <p>ANF 36</p>
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<p>Male Elbow to Straight Thread Boss</p>  <p>MEST 38</p>	<p>45° Male Elbow to Straight Thread Boss</p>  <p>M45EST 39</p>	<p>Male Branch Tee to Straight Thread Boss</p>  <p>MBTST 39</p>
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# Visual Index

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Components		
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Ferrule Set  FS 43	Knurled Nut  KN 43	Bulkhead Locknut  BN 43
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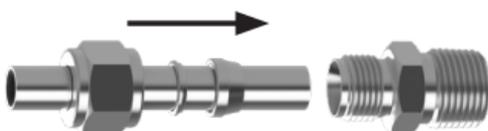
# Installation Instructions

## Initial Installation

- 1 SSP tube fittings come individually bagged and completely assembled for immediate use. There is no need for disassembly prior to use. Simply remove the tube fitting from its bag, insert the tube\* until it bottoms in the SSP tube fitting body and then hand tighten the SSP nut. (See Figure 02.)

*\*Tubing ends should be cut as straight as possible with all O.D. and I.D. burrs removed. Use of a tubing cutter or guide blocks with a hack-saw is recommended.*

Figure 02.

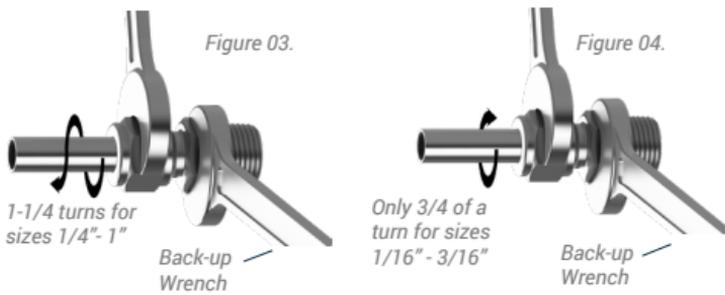


**NOTE:** For extreme system applications using high pressures or requiring an extra factor of safety, it may be desirable to use a "common make up starting point" to alleviate the inherent variations in tubing diameters. Installation should begin from a snug position, which is achieved by wrench tightening the Griplik nut until the inserted tubing will not move by hand (approximately 1/8 turn). From this new "snug" starting point, continue with the recommended installation instructions.

- 2 While holding the fitting body stable with a back-up wrench, scribe the nut for a reference point and wrench tighten the nut 1-1/4 turns for sizes 1/4" - 1" and 3/4 turn for sizes 1/16" - 3/16". (See Figures 03 and 04).

**NOTE:** For all sizes, tighten plugs (P), machined ferrule end of port connector (PC) and the SSP tube fitting end of the Female AN adapter (ANF) only 1/4 of a turn. Tube fittings in sizes over 1" require the use of the SSP Hydraulic Swaging Tool for installation. Contact your local SSP Distributor for more information.

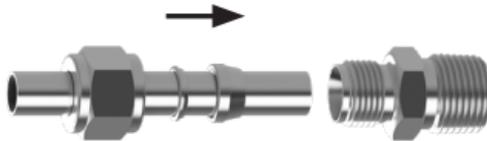
# Installation Instructions



## Reassembly Instructions

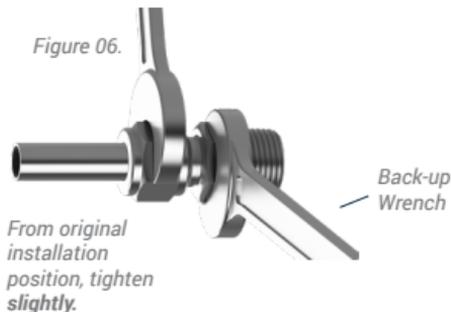
- 1 To reassemble a SSP tube fitting connection, simply insert the tubing with the previously coined ferrules and SSP nut into the fitting body until the front ferrule seats within the fitting body, and then tighten the nut by hand. (See Figure 05.)

Figure 05.



**NOTE: By following proper reassembly procedures, SSP tube fitting connections may be disconnected and reconnected repeatedly.**

- 2 While holding the fitting body stable with a back up wrench, use a wrench to rotate the SSP nut to the fitting's original installation position (approximately 1/4 turn from the hand-tight, snug position) then continue to tighten the SSP nut slightly. (See Figure 06.)

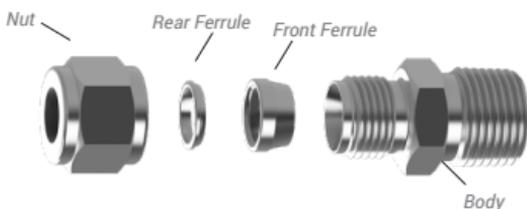


# Installation Instructions

## Component Assembly

Should individual component assembly of a SSP tube fitting ever be required, careful attention must be given to the proper sequence and direction of the SSP tube fitting components. (See Figure 07.)

Figure 07.



## Pre-setting

The SSP tube fitting pre-setting tool is used to preset the ferrules on the tubing for subsequent installation in a fitting body. The pre-setting tool can be especially helpful when an installation must be made in a tight space or hard-to-work area. The pre-setting tool allows the major portion of the installation work to occur in a more favorable work setting with only the completion of the installation in the hard-to-work area.

## Pre-setting Instructions

- ① Secure the pre-setting tool in a vise.
- ② Remove the protective nut and assemble the SSP nut and ferrules loosely to the pre-setting tool. Insert the tubing through the nut and ferrules until it bottoms in the pre-setting tool, and then follow the standard SSP tube fitting installation instructions. (See Figures 08a and 08b.)

Figure 08a.

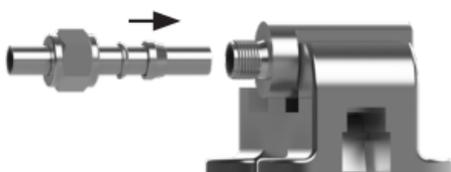


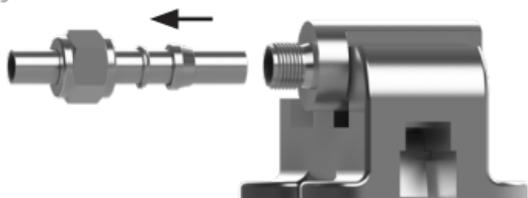
Figure 08b.



# Installation Instructions

- Loosen the nut and remove the tubing with the pre-set SSP tube fitting ferrules and nut from the pre-setting tool. (See Figure 09.)

Figure 09.



- Installation of the tubing, with the pre-set SSP tube fitting ferrules and nut in the appropriate fitting body can now be made by following the standard reassembly instructions. (See Figures 10a and 10b.)

Figure 10a.

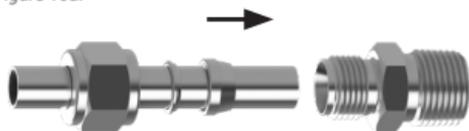
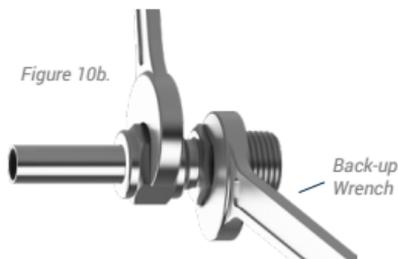


Figure 10b.



- Return the protective nut to the presetting tool.

**NOTE:** To extend the life of a pre-setting tool, lubricate the tool with a lubricant compatible with the system's tubing material, environment and media. Also, at times an over-sized or very soft tubing may tend to stick in the presetting tool after make up. To remove the tubing, gently rock the tubing back and forth. Never turn the tube with pliers or another tool as such action may damage the sealing surfaces.

# Technical Data

STAINLESS STEEL TUBING – Wall Thickness .010" to .049" Maximum Allowable Working Pressure (PSIG)								
Tube O.D. Size (In.)	Wall Thickness of Tube (In.)							
	.010	.012	.014	.016	.020	.028	.035	.049
1/16	5600	6850	8150	9500	12100			
1/8						8550	11000	
3/16						5450	7000	10300
1/4						4000	5100	7500
5/16							4050	5850
3/8							3300	4800
1/2							2450	3500
5/8								2950
3/4								2400
7/8								2050
1		Note: For light gas service, use tubing with wall thickness outside of shaded area.						
1-1/4								
1-1/2								
2								

(Wall Thicknesses .065" through .188" are on the following page.)

**Calculation Basis:** Annealed, seamless 304 or 316 stainless steel tubing ASTM A-269 or equivalent. System temperatures between -20°F and 100°F with allowable stress of 137 MPA. Ultimate tensile strength of 517 MPA. Safety factor of 4.

**Reference:** ANSI B31.3 Code. (For more specific working pressure information regarding a particular tubing, consult with the actual manufacturer of the tubing.)

**Note:** For welded and drawn tubing, a derating factor must be utilized. For double welded tube, multiply the above pressure rating by .85; and for single welded tube by .80 (ANSI B 31, Table A-1B).

**Suggested Tube Ordering Information:** Specify the outside diameter and wall thickness of annealed, seamless or welded and drawn 316 or 304 stainless steel tubing of ASTM A-269, A-249, A-213 or equivalent. Also specify high quality tubing to be free of scratches and suited for bending with material hardness not to exceed Rb 90.

# Technical Data

STAINLESS STEEL TUBING – Wall Thickness .065" to .188" Maximum Allowable Working Pressure (PSIG)								
Tube O.D. Size (In.)	Wall Thickness of Tube (In.)							
	.065	.083	.095	.109	.120	.134	.156	.188
1/16								
1/8					Note: For light gas service, use tubing with wall thickness outside of shaded area.			
3/16								
1/4	10300							
5/16	8050							
3/8	6550							
1/2	4750	6250						
5/8	4000	5200	6050					
3/4	3300	4250	4950	5800				
7/8	2800	3600	4200	4850				
1	2400	3150	3650	4200	4700			
1-1/4		2450	2850	3300	3650	4150	4900	
1-1/2			2350	2700	3000	3400	4000	4900
2				2000	2200	2500	2900	3600

(Wall Thicknesses .010" through .049" are on the previous page.)

**Calculation Basis:** Annealed, seamless 304 or 316 stainless steel tubing ASTM A-269 or equivalent. System temperatures between -20°F and 100°F with allowable stress of 20,000 psi. Ultimate tensile strength of 75,000 psi. Safety factor of 4.

**Reference:** ANSI B31.3 Code. (For more specific working pressure information regarding a particular tubing, consult with the actual manufacturer of the tubing.) Multiply stainless steel rating by 0.94 for working pressure in accordance with ASME B31.1.

**Note:** For welded and drawn tubing, a derating factor must be utilized. For double welded tube, multiply the above pressure rating by .85; and for single welded tube by .80 (ANSI B 31, Table A-1B).

**Suggested Tube Ordering Information:** Specify the outside diameter and wall thickness of annealed, seamless or welded and drawn 316 or 304 stainless steel tubing of ASTM A-269, A-249, A-213 or equivalent. Also specify high quality tubing to be free of scratches, and suited for bending with material hardness not to exceed Rb 90.

STAINLESS STEEL TUBING Maximum Allowable Working Pressure (bar)											
Tube O.D. Size (mm)	Wall Thickness of Tube (mm)										
	0.8	1.0	1.2	1.5	1.8	2.0	2.2	2.5	2.8	3.0	3.5
3	670										
6	310	420	540	710				Note: For light gas service, use tubing with wall thickness outside of shaded area.			
8		310	390	520							
10		240	300	400	510	580					
12		200	250	330	410	470					
14		160	200	270	340	380	430				
15		150	190	250	310	360	400				
16			170	230	290	330	370	400			
18			150	200	260	290	320	370			
20			140	180	230	260	290	330	380		
22			140	160	200	230	260	300	340		
25					180	200	230	260	290	320	

**Calculation Basis:** Annealed, seamless 304 or 316 stainless steel tubing EN ISO 1127 or equivalent (from ASME B31.3). System temperatures between -20°F and 100°F with allowable stress of 1370 bar (20,000 psi). Ultimate tensile strength of 5170 bar (75,000 psi). Safety factor of 4.

**Reference:** ANSI B31.3 Code. (For more specific working pressure information regarding a particular tubing, consult with the actual manufacturer of the tubing.) Multiply stainless steel rating by 0.94 for working pressure in accordance with ASME B31.1.

**Note:** For welded and drawn tubing, a derating factor must be utilized. For double welded tube, multiply the above pressure rating by .85; and for single welded tube .80 (ANSI B 31, Table A-1B).

**Suggested Tube Ordering Information:** Specify the outside diameter and wall thickness of annealed, seamless or welded and drawn 316 or 304 stainless steel tubing of EN ISO 1127 or equivalent. Also specify high quality tubing to be free of scratches, and suited for bending with material hardness not to exceed Rb 90 (200 HV).

# Tube to Male Pipe

**MC**

*Male*

*Connector*

*- NPT*

*For Fractional Tube*



Griplok Part #	Tube O.D. (in.)	NPT Male Pipe (in.)
G3MC2	3/16	1/8
G3MC4	3/16	1/4
G4MC2	1/4	1/8
G4MC4	1/4	1/4
G6MC2	3/8	1/8
G6MC4	3/8	1/4
G6MC6	3/8	3/8
G6MC8	3/8	1/2
G8MC2	1/2	1/8
G8MC4	1/2	1/4
G8MC6	1/2	3/8
G8MC8	1/2	1/2
G10MC2	5/8	1/8
G10MC4	5/8	1/4
G10MC6	5/8	3/8
G10MC8	5/8	1/2
G10MC12	5/8	3/4
G12MC2	3/4	1/8
G12MC4	3/4	1/4
G12MC6	3/4	3/8
G12MC8	3/4	1/2
G12MC12	3/4	3/4
G14MC4	7/8	1/4
G14MC6	7/8	3/8
G14MC8	7/8	1/2
G16MC6	1	3/8
G16MC8	1	1/2
G16MC12	1	3/4

# Tube to Male Pipe

## MCRS

Male

Connector -

ISO Parallel

For Fractional Tube



Griplok Part #	Tube O.D. (in.)	ISO Male Pipe (in.)
G2MCRS2	1/8	1/8
G2MCRS4	1/8	1/4
G2MCRS6	1/8	3/8
G4MCRS2	1/4	1/8
G4MCRS4	1/4	1/4
G4MCRS6	1/4	3/8
G4MCRS8	1/4	1/2
G6MCRS4	3/8	1/4
G6MCRS6	3/8	3/8
G6MCRS8	3/8	1/2
G8MCRS4	1/2	1/4
G8MCRS6	1/2	3/8
G8MCRS8	1/2	1/2
G12MCRS8	3/4	1/2
G12MCRS12	3/4	3/4
G16MCRS8	1	1/2
G16MCRS16	1	1

**NOTE:** RS threaded fittings conform to ISO standards 228-1. The standard gasket for RS fittings is a 300 series stainless steel outer ring with a Viton® inner ring bonded to it.

# Tube to Male Pipe

## MCRT

Male  
Connector -  
ISO Tapered  
For Fractional Tube



Griplok Part #	Tube O.D. (in.)	ISO Male Pipe (in.)
G2MCRT2	1/8	1/8
G2MCRT4	1/8	1/4
G4MCRT2	1/4	1/8
G4MCRT4	1/4	1/4
G4MCRT6	1/4	3/8
G4MCRT8	1/4	1/2
G5MCRT2	5/16	1/8
G5MCRT4	5/16	1/4
G6MCRT2	3/8	1/8
G6MCRT4	3/8	1/4
G6MCRT6	3/8	3/8
G6MCRT8	3/8	1/2
G8MCRT4	1/2	1/4
G8MCRT6	1/2	3/8
G8MCRT8	1/2	1/2
G8MCRT12	1/2	3/4
G12MCRT12	3/4	3/4
G16MCRT16	1	1

**NOTE:** RT threaded fittings conform to ISO standards 7-1.

## BMC

Bulkhead Male  
Connector - NPT  
For Fractional Tube



Griplok Part #	Tube O.D. (in.)	NPT Male Pipe (in.)
G2BMC2	1/8	1/8
G4BMC2	1/4	1/8
G4BMC4	1/4	1/4
G6BMC4	3/8	1/4
G8BMC6	1/2	3/8
G8BMC8	1/2	1/2

# Tube to Male Pipe

## **MCBT**

*Male  
Connector  
Bored Through  
- NPT  
For Fractional Tube*



Griplok Part #	Tube O.D. (in.)	NPT Male Pipe (in.)
G1MCBT1	1/16	1/16
G1MCBT2	1/16	1/8
G2MCBT1	1/8	1/16
G2MCBT2	1/8	1/8
G2MCBT4	1/8	1/4
G3MCBT2	3/16	1/8
G3MCBT4	3/16	1/4
G4MCBT2	1/4	1/8
G4MCBT4	1/4	1/4
G4MCBT6	1/4	3/8
G4MCBT8	1/4	1/2
G5MCBT4	5/16	1/4
G6MCBT4	3/8	1/4
G6MCBT6	3/8	3/8
G6MCBT8	3/8	1/2
G8MCBT8	1/2	1/2
G10MCBT12	5/8	3/4
G12MCBT12	3/4	3/4
G16MCBT16	1	1

## **M45E**

*45° Male Elbow  
- NPT  
For Fractional Tube*



Griplok Part #	Tube O.D. (in.)	NPT Male Pipe (in.)
G4M45E2	1/4	1/8
G4M45E4	1/4	1/4
G6M45E2	3/8	1/8
G6M45E4	3/8	1/4
G6M45E6	3/8	3/8
G8M45E6	1/2	3/8

# Tube to Male Pipe

**ME**

*Male Elbow*

*- NPT*

For Fractional Tube



Griplok Part #	Tube O.D. (in.)	NPT Male Pipe (in.)
G1ME1	1/16	1/16
G1ME2	1/16	1/8
G2ME1	1/8	1/16
G2ME2	1/8	1/8
G2ME4	1/8	1/4
G3ME2	3/16	1/8
G3ME4	3/16	1/4
G4ME2	1/4	1/8
G4ME4	1/4	1/4
G4ME6	1/4	3/8
G4ME8	1/4	1/2
G5ME2	5/16	1/8
G5ME4	5/16	1/4
G5ME6	5/16	3/8
G6ME2	3/8	1/8
G6ME4	3/8	1/4
G6ME6	3/8	3/8
G6ME8	3/8	1/2
G6ME12	3/8	3/4
G8ME4	1/2	1/4
G8ME6	1/2	3/8
G8ME8	1/2	1/2
G8ME12	1/2	3/4
G10ME6	5/8	3/8
G10ME8	5/8	1/2
G10ME12	5/8	3/4
G12ME8	3/4	1/2
G12ME12	3/4	3/4
G14ME12	7/8	3/4
G16ME12	1	3/4
G16ME16	1	1

# Tube to Male Pipe

## **MERT**

*Male Elbow -  
ISO Tapered*  
For Fractional Tube



Griplok Part #	Tube O.D. (in.)	ISO Male Pipe (in.)
G2MERT2	1/8	1/8
G4MERT2	1/4	1/8
G4MERT4	1/4	1/4
G4MERT6	1/4	3/8
G4MERT8	1/4	1/2
G5MERT4	5/16	1/4
G6MERT2	3/8	1/8
G6MERT4	3/8	1/4
G6MERT6	3/8	3/8
G6MERT8	3/8	1/2
G8MERT4	1/2	1/4
G8MERT6	1/2	3/8
G8MERT8	1/2	1/2

**NOTE:** RT threaded fittings conform to ISO standards 7-1.

## **MBT**

*Male Branch Tee*  
- NPT  
For Fractional Tube



Griplok Part #	Tube O.D. (in.)	NPT Male Pipe (in.)
G2MBT2	1/8	1/8
G2MBT4	1/8	1/4
G3MBT2	3/16	1/8
G4MBT2	1/4	1/8
G4MBT4	1/4	1/4
G5MBT2	5/16	1/8
G6MBT4	3/8	1/4
G6MBT6	3/8	3/8
G8MBT6	1/2	3/8
G8MBT8	1/2	1/2
G10MBT8	5/8	1/2
G12MBT12	3/4	3/4

# Tube to Male Pipe

## **MRT**

*Male Run Tee*

*- NPT*

*For Fractional Tube*



Griplok Part #	Tube O.D. (in.)	NPT Male Pipe (in.)
G2MRT2	1/8	1/8
G2MRT4	1/8	1/4
G3MRT2	3/16	1/8
G4MRT2	1/4	1/8
G4MRT4	1/4	1/4
G5MRT2	5/16	1/8
G6MRT4	3/8	1/4
G6MRT6	3/8	3/8
G8MRT6	1/2	3/8
G8MRT8	1/2	1/2
G10MRT8	5/8	1/2
G12MRT12	3/4	3/4

# Tube to Female Pipe

## FC

### Female Connector

- FNPT

For Fractional Tube

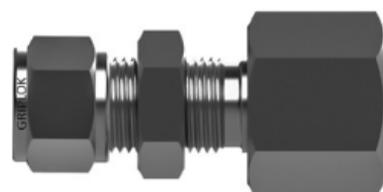


Grielok Part #	Tube O.D. (in.)	NPT Female Pipe (in.)
G1FC1	1/16	1/16
G1FC2	1/16	1/8
G2FC2	1/8	1/8
G2FC4	1/8	1/4
G3FC2	3/16	1/8
G4FC2	1/4	1/8
G4FC4	1/4	1/4
G4FC6	1/4	3/8
G4FC8	1/4	1/2
G5FC2	5/16	1/8
G5FC4	5/16	1/4
G6FC2	3/8	1/8
G6FC4	3/8	1/4
G6FC6	3/8	3/8
G6FC8	3/8	1/2
G6FC12	3/8	3/4
G8FC4	1/2	1/4
G8FC6	1/2	3/8
G8FC8	1/2	1/2
G8FC12	1/2	3/4
G10FC6	5/8	3/8
G10FC8	5/8	1/2
G12FC8	3/4	1/2
G12FC12	3/4	3/4
G14FC12	7/8	3/4
G16FC12	1	3/4
G16FC16	1	1

## BFC

### Bulkhead Female Connector - FNPT

For Fractional Tube



Grielok Part #	Tube O.D. (in.)	NPT Female Pipe (in.)
G2BFC2	1/8	1/8
G4BFC2	1/4	1/8
G4BFC4	1/4	1/4
G6BFC4	3/8	1/4
G8BFC6	1/2	3/8
G8BFC8	1/2	1/2

# Tube to Female Pipe

## FE

*Female Elbow*

- FNPT

For Fractional Tube



Griplok Part #	Tube O.D. (in.)	NPT Female Pipe (in.)
G2FE2	1/8	1/8
G2FE4	1/8	1/4
G3FE2	3/16	1/8
G4FE2	1/4	1/8
G4FE4	1/4	1/4
G4FE6	1/4	3/8
G4FE8	1/4	1/2
G5FE2	5/16	1/8
G5FE4	5/16	1/4
G6FE2	3/8	1/8
G6FE4	3/8	1/4
G6FE6	3/8	3/8
G6FE8	3/8	1/2
G8FE4	1/2	1/4
G8FE6	1/2	3/8
G8FE8	1/2	1/2
G10FE6	5/8	3/8
G10FE8	5/8	1/2
G12FE8	3/4	1/2
G12FE12	3/4	3/4
G14FE12	7/8	3/4
G16FE12	1	3/4
G16FE16	1	1

## FBT

*Female*

*Branch Tee*

- FNPT

For Fractional Tube



Griplok Part #	Tube O.D. (in.)	NPT Female Pipe (in.)
G2FBT2	1/8	1/8
G4FBT2	1/4	1/8
G4FBT4	1/4	1/4
G6FBT4	3/8	1/4
G8FBT4	1/2	1/4
G8FBT6	1/2	3/8
G8FBT8	1/2	1/2
G10FBT8	5/8	1/2
G12FBT12	3/4	3/4
G16FBT12	1	3/4
G16FBT16	1	1

# Tube to Female Pipe

## **FRT**

### *Female Run Tee* *- FNPT*

For *Fractional Tube*



Griplok Part #	Tube O.D. (in.)	NPT Female Pipe (in.)
G2FRT2	1/8	1/8
G4FRT2	1/4	1/8
G4FRT4	1/4	1/4
G6FRT4	3/8	1/4
G8FRT6	1/2	3/8
G8FRT8	1/2	1/2
G12FRT12	3/4	3/4

# Tube to Tube Union

## **U**

### *Union*

For *Fractional Tube*



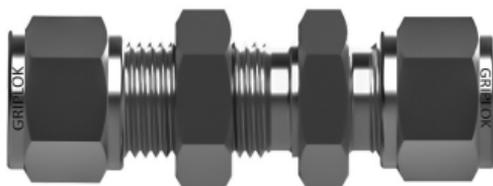
Griplok Part #	Tube O.D. (in.)
G1U	1/16
G2U	1/8
G3U	3/16
G4U	1/4
G5U	5/16
G6U	3/8
G8U	1/2
G10U	5/8
G12U	3/4
G14U	7/8
G16U	1

# Tube to Tube Union

## **BU**

### *Bulkhead Union*

For Fractional Tube



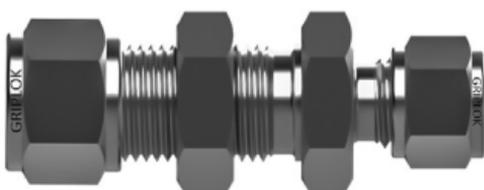
Griplok Part #	Tube O.D. (in.)
G1BU	1/16
G2BU	1/8
G3BU	3/16
G4BU	1/4
G5BU	5/16
G6BU	3/8
G8BU	1/2
G10BU	5/8
G12BU	3/4
G16BU	1

## **BRU**

### *Bulkhead Reducing Union*

### *Reducing Union*

For Fractional Tube



Griplok Part #	Tube 1 O.D. (in.)	Tube 2 O.D. (in.)
G4BRU2	1/4	1/8
G6BRU4	3/8	1/4
G8BRU4	1/2	1/4
G8BRU6	1/2	3/8

# Tube to Tube Union

## RU

### Reducing Union

For Fractional Tube



Griplok Part #	Tube 1 O.D. (in.)	Tube 2 O.D. (in.)
G2RU1	1/8	1/16
G3RU1	3/16	1/16
G3RU2	3/16	1/8
G4RU1	1/4	1/16
G4RU2	1/4	1/8
G4RU3	1/4	3/16
G5RU2	5/16	1/8
G5RU4	5/16	1/4
G6RU1	3/8	1/16
G6RU2	3/8	1/8
G6RU4	3/8	1/4
G6RU5	3/8	5/16
G8RU2	1/2	1/8
G8RU4	1/2	1/4
G8RU6	1/2	3/8
G10RU6	5/8	3/8
G10RU8	5/8	1/2
G12RU4	3/4	1/4
G12RU6	3/4	3/8
G12RU8	3/4	1/2
G12RU10	3/4	5/8
G16RU8	1	1/2
G16RU12	1	3/4

## UE

### Union Elbow

For Fractional Tube



Griplok Part #	Tube O.D. (in.)
G1UE	1/16
G2UE	1/8
G3UE	3/16
G4UE	1/4
G5UE	5/16
G6UE	3/8
G8UE	1/2
G10UE	5/8
G12UE	3/4
G14UE	7/8
G16UE	1

# Tube to Tube Union

## UCS

### Union Cross

For Fractional Tube



Griplok Part #	Tube O.D. (in.)
G2UCS	1/8
G4UCS	1/4
G5UCS	5/16
G6UCS	3/8
G8UCS	1/2
G12UCS	3/4
G16UCS	1

## UT

### Union Tee

For Fractional Tube



Griplok Part #	Tube O.D. (in.)
G1UT	1/16
G2UT	1/8
G3UT	3/16
G4UT	1/4
G5UT	5/16
G6UT	3/8
G8UT	1/2
G10UT	5/8
G12UT	3/4
G14UT	7/8
G16UT	1

# Tube to Tube Union

## RUT

Reducing  
Union Tee -  
Configuration A  
For Fractional Tube



Griplok Part #	Tube 1 O.D. (in.)	Tube 2 O.D. (in.)
G6RUT64	3/8	1/4
G8RUT84	1/2	1/4
G8RUT86	1/2	3/8
G10RUT106	5/8	3/8
G12RUT126	3/4	3/8
G12RUT128	3/4	1/2
G16RUT166	1	3/8
G16RUT168	1	1/2
G16RUT1612	1	3/4

## RUT

Reducing  
Union Tee -  
Configuration B  
For Fractional Tube

Griplok Part #	Tube 1 O.D. (in.)	Tube 2 O.D. (in.)
G6RUT46	3/8	1/4

## RUT

Reducing  
Union Tee -  
Configuration C  
For Fractional Tube

Griplok Part #	Tube 1 O.D. (in.)	Tube 2 O.D. (in.)
G8RUT66	1/2	3/8
G10RUT66	5/8	3/8
G12RUT66	3/4	3/8

## RUT

Reducing  
Union Tee -  
Configuration D  
For Fractional Tube

Griplok Part #	Tube 1 O.D. (in.)	Tube 2 O.D. (in.)	Tube 3 O.D. (in.)
G10RUT86	5/8	1/2	3/8
G12RUT86	3/4	1/2	3/8
G16RUT126	1	3/4	3/8

# Tube to Tube Union

## DA

### Dielectric Adapter

For Fractional Tube

Griplok Part #	Tube End 1 (in.)	Tube End 2 (in.)
G8DA6	3/8	1/2



The SSP Instrumentation Dielectric Adapter is supplied with pre-swaged 3/8" nut and ferrules. The dielectric connection has a captive 1/2" nut. Dielectric Stop Collar and assembly instructions are also supplied with the adapter. By using 3/8" and 1/2" tube-ended SSP Instrumentation tube fittings with the adapter, a wide range of dielectric fitting configurations can be built.

## DU

### Dielectric Union

For Fractional Tube

Griplok Part #	Length (in.)
G4DU	4.08
G6DU	4.20
G8DU	4.79
G6DMC4	3.80



Dielectric fittings are designed to isolate monitoring and control instruments and equipment from electrical current and voltages. Manufactured in 316 stainless steel with thermoplastic insulators, SSP Instrumentation's dielectric fittings provide high dielectric strength in applications up to 5,000 PSIG. Typical applications for dielectric fittings are on impulse lines in natural gas pipeline monitoring stations. For additional factory assembled configurations, contact your local distributor.

## Materials and Technical Data

**Body:** 316 Stainless Steel

**Insulator:** Polyether-imide

**Pressure Rating:** 5,000 PSIG

**Temperature Rating:** From -40°F to +200°F

**Electrical Resistance:** 1.0 x 10E7 Ohm at 70°F (20°C) at 10 VDC

@ 50% relative humidity; voltage breakdown resistance of 3,000 VDC.

# Tube to Welded Systems

## **TSWU**

### *Tube Socket Weld Connector*

For Fractional Tube



Grielok Part #	Tube Size (in.)
G2TSWU2	1/8
G4TSWU4	1/4
G6TSWU6	3/8
G8TSWU8	1/2
G12TSWU12	3/4
G16TSWU16	1

## **TSWE**

### *Tube Socket Weld Elbow*

For Fractional Tube



Grielok Part #	Tube Size (in.)
G4TSWE4	1/4
G6TSWE6	3/8
G8TSWE8	1/2

# Tube to Welded Systems

## MPWC

### Male Pipe Weld Connector

For Fractional Tube



Griplok Part #	Tube O.D. (in.)	Male Pipe Weld Size (in.)
G2MPWC2	1/8	1/8
G3MPWC2	3/16	1/8
G4MPWC2	1/4	1/8
G4MPWC4	1/4	1/4
G5MPWC2	5/16	1/8
G5MPWC4	5/16	1/4
G6MPWC4	3/8	1/4
G6MPWC6	3/8	3/8
G6MPWC8	3/8	1/2
G8MPWC6	1/2	3/8
G8MPWC8	1/2	1/2
G8MPWC12	1/2	3/4
G10MPWC8	5/8	1/2
G12MPWC12	3/4	3/4
G16MPWC16	1	1

## MPWE

### Male Pipe Weld Elbow

For Fractional Tube



Griplok Part #	Tube O.D. (in.)	Male Pipe Weld Size (in.)
G4MPWE2	1/4	1/8
G4MPWE4	1/4	1/4
G6MPWE4	3/8	1/4
G8MPWE8	1/2	1/2
G12MPWE12	3/4	3/4

# Tube Stub Connectors / Adapters

## BR

### Bulkhead Reducer / Adapter

For Fractional Tube

Griplok Part #	Tube O.D. (in.)
G2BR2	1/8
G4BR4	1/4
G6BR6	3/8
G8BR8	1/2



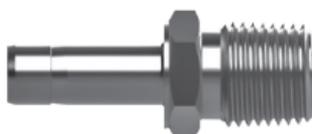
## MA

### Male Adapter

- NPT

For Fractional Tube

Griplok Part #	Tube O.D. (in.)	NPT Male Pipe (in.)
G2MA2	1/8	1/8
G2MA4	1/8	1/4
G3MA2	3/16	1/8
G3MA4	3/16	1/4
G4MA2	1/4	1/8
G4MA4	1/4	1/4
G4MA6	1/4	3/8
G4MA8	1/4	1/2
G5MA2	5/16	1/8
G5MA4	5/16	1/4
G6MA2	3/8	1/8
G6MA4	3/8	1/4
G6MA6	3/8	3/8
G6MA8	3/8	1/2
G8MA4	1/2	1/4
G8MA6	1/2	3/8
G8MA8	1/2	1/2
G10MA8	5/8	1/2
G12MA8	3/4	1/2
G12MA12	3/4	3/4
G16MA12	1	3/4
G16MA16	1	1



# Tube Stub Connectors / Adapters

## FA

*Female Adapter*

*- FNPT*

*For Fractional Tube*



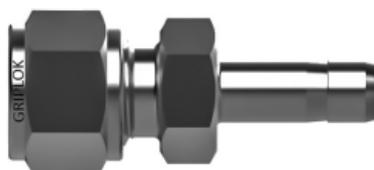
Griplok Part #	Tube O.D. (in.)	NPT Female Pipe (in.)
G2FA2	1/8	1/8
G2FA4	1/8	1/4
G3FA4	3/16	1/4
G4FA2	1/4	1/8
G4FA4	1/4	1/4
G4FA6	1/4	3/8
G4FA8	1/4	1/2
G5FA4	5/16	1/4
G6FA2	3/8	1/8
G6FA4	3/8	1/4
G6FA6	3/8	3/8
G6FA8	3/8	1/2
G8FA4	1/2	1/4
G8FA6	1/2	3/8
G8FA8	1/2	1/2
G10FA8	5/8	1/2
G12FA8	3/4	1/2
G12FA12	3/4	3/4
G12FA16	3/4	1
G16FA12	1	3/4
G16FA16	1	1

# Tube Stub Connectors / Adapters

**R**

*Reducer / Adapter*

For Fractional Tube



Griplok Part #	Tube 1 O.D. (in.)	Tube 2 O.D. (in.)
G1R2	1/16	1/8
G1R4	1/16	1/4
G2R1	1/8	1/16
G2R2	1/8	1/8
G2R3	1/8	3/16
G2R4	1/8	1/4
G2R6	1/8	3/8
G2R8	1/8	1/2
G3R2	3/16	1/8
G3R4	3/16	1/4
G4R2	1/4	1/8
G4R3	1/4	3/16
G4R4	1/4	1/4
G4R5	1/4	5/16
G4R6	1/4	3/8
G4R8	1/4	1/2
G4R10	1/4	5/8
G4R12	1/4	3/4
G5R6	5/16	3/8
G5R8	5/16	1/2
G6R4	3/8	1/4
G6R6	3/8	3/8
G6R8	3/8	1/2
G6R10	3/8	5/8
G6R12	3/8	3/4
G8R4	1/2	1/4
G8R6	1/2	3/8
G8R8	1/2	1/2
G8R10	1/2	5/8
G8R12	1/2	3/4
G8R16	1/2	1
G10R12	5/8	3/4
G10R14	5/8	7/8
G10R16	5/8	1
G12R8	3/4	1/2
G12R16	3/4	1

**NOTE:** For Heat Exchanger Tee applications, certain Reducer / Adapter fittings can be “bored through” to accommodate a process tube’s insertion. Consult with the local distributor for further information on “bored through” Reducer / Adapter (RBT) fittings.

# Tube Stub Connectors / Adapters

## PC

### Port Connector

For Fractional Tube



Griplok Part #	Tube O.D. (in.)
G1PC	1/16
G2PC	1/8
G4PC	1/4
G5PC	5/16
G6PC	3/8
G8PC	1/2
G12PC	3/4
G16PC	1

## RPC

### Reducing

### Port Connector

For Fractional Tube



Griplok Part #	Tube 1 O.D. (in.)	Tube 2 O.D. (in.)
G2RPC1	1/8	1/16
G4RPC1	1/4	1/16
G4RPC2	1/4	1/8
G6RPC2	3/8	1/8
G6RPC4	3/8	1/4
G8RPC4	1/2	1/4
G8RPC6	1/2	3/8
G12RPC8	3/4	1/2

# Tube Stub Connectors / Adapters

## HBA

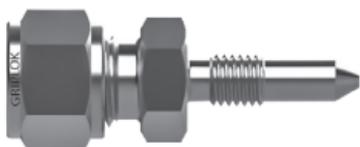
*Hose Barb Adapter*  
For Fractional Tube



Griplok Part #	Hose I.D. (in.)	Tube Size (in.)
G2HBA2	1/8	1/8
G2HBA4	1/8	1/4
G4HBA4	1/4	1/4
G4HBA6	1/4	3/8
G5HBA4	5/16	1/4
G6HBA6	3/8	3/8
G6HBA8	3/8	1/2
G8HBA6	1/2	3/8
G8HBA8	1/2	1/2
G12HBA12	3/4	3/4

## CU1

*Calibration Union*  
For Fractional Tube



Griplok Part #	Tube O.D. (in.)
G4CU1	1/4

## CU2

*Calibration Union*  
For Fractional Tube



Griplok Part #	Tube O.D. (in.)
G4CU2	1/4

# Griplok to 37° Flare

## ANU

### AN Union

For Fractional Tube

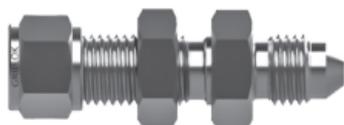


Griplok Part #	Tube O.D. (in.)	AN Tube Flare Size (in.)
G1ANU2	1/16	1/8
G2ANU2	1/8	1/8
G2ANU4	1/8	1/4
G4ANU4	1/4	1/4
G5ANU5	5/16	5/16
G6ANU4	3/8	1/4
G6ANU6	3/8	3/8
G8ANU8	1/2	1/2
G12ANU12	3/4	3/4
G16ANU16	1	1

## ANBU

### AN Bulkhead Union

For Fractional Tube



Griplok Part #	Tube O.D. (in.)	AN Tube Flare Size (in.)
G4ANBU4	1/4	1/4
G6ANBU6	3/8	3/8
G8ANBU8	1/2	1/2
G12ANBU12	3/4	3/4
G16ANBU16	1	1

## ANF

### Female AN Adapter

For Fractional Tube



Griplok Part #	Tube O.D. (in.)	AN Flare Size (in.)
G2ANF2	1/8	1/8
G2ANF4	1/8	1/4
G4ANF4	1/4	1/4
G6ANF6	3/8	3/8
G8ANF8	1/2	1/2

# Griplok to 37° Flare

## ANA

*AN Adapter  
For Fractional Tube*



Griplok Part #	Tube O.D. (in.)	AN Tube Flare Size (in.)
G4ANA4	1/4	1/4
G6ANA4	3/8	1/4
G6ANA6	3/8	3/8
G8ANA8	1/2	1/2
G12ANA12	3/4	3/4
G16ANA16	1	1

# Tube to O-Ring Seal

## OMC

*O-Ring  
Seal Male  
Connector\*  
For Fractional Tube*



Griplok Part #	Tube O.D. (in.)	NPT* Male Pipe (in.)
G2OMC2	1/8	1/8
G4OMC2	1/4	1/8
G4OMC4	1/4	1/4
G6OMC4	3/8	1/4
G6OMC6	3/8	3/8
G6OMC8	3/8	1/2
G8OMC8	1/2	1/2

\*Connects to Female Short NPT Thread

## OSC

*O-Ring Seal Male  
Straight Thread  
Connector\*  
For Fractional Tube*



Griplok Part #	Tube O.D. (in.)	Thread Size
G1OSC2	1/16	5/16 - 24
G2OSC2	1/8	5/16 - 24
G3OSC3	3/16	3/8 - 24
G4OSC4	1/4	7/16 - 20
G5OSC5	5/16	1/2 - 20
G6OSC6	3/8	9/16 - 18
G8OSC8	1/2	3/4 - 16
G12OSC12	3/4	1-1/16 - 12
G16OSC16	1	1-5/16 - 12

\*Connects to Female Straight Thread - SAE J1926

# Tube to SAE / MS

## MCST

Male Connector -  
Straight Thread  
Boss  
For Fractional Tube



Griplok Part #	Tube O.D. (in.)	Thread Size
G2MCST2	1/8	5/16 - 24
G4MCST4	1/4	7/16 - 20
G4MCST6	1/4	9/16 - 18
G4MCST8	1/4	3/4 - 16
G4MCST10	1/4	7/8 - 14
G5MCST5	5/16	1/2 - 20
G6MCST4	3/8	7/16 - 20
G6MCST6	3/8	9/16 - 18
G6MCST8	3/8	3/4 - 16
G6MCST10	3/8	7/8 - 14
G8MCST6	1/2	9/16 - 18
G8MCST8	1/2	3/4 - 16
G8MCST10	1/2	7/8 - 14
G8MCST12	1/2	1-1/16 - 12
G10MCST8	5/8	3/4 - 16
G10MCST10	5/8	7/8 - 14
G12MCST8	3/4	3/4 - 16
G12MCST12	3/4	1-1/16 - 12
G14MCST14	7/8	1-3/16 - 12
G16MCST12	1	1-1/16 - 12
G16MCST16	1	1-5/16 - 12

90 Durometer Viton® O-Ring is standard. Other O-Ring compounds are available.

## MEST

Male Elbow -  
Straight Thread  
Boss  
For Fractional Tube



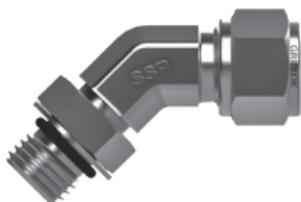
Griplok Part #	Tube O.D. (in.)	SAE / MS Thread Size
G4MEST4	1/4	7/16 - 20
G4MEST6	1/4	9/16 - 18
G5MEST5	5/16	1/2 - 20
G6MEST4	3/8	7/16 - 20
G6MEST6	3/8	9/16 - 18
G6MEST8	3/8	3/4 - 16
G8MEST6	1/2	9/16 - 18
G8MEST8	1/2	3/4 - 16
G10MEST10	5/8	7/8 - 14
G12MEST12	3/4	1-1/16 - 12
G16MEST16	1	1-5/16 - 12

90 Durometer Viton® O-Ring is standard. Other O-Ring compounds are available.

## M45EST

45° Male Elbow -  
Straight Thread  
Boss

For Fractional Tube



Griplok Part #	Tube O.D. (in.)	SAE / MS Thread Size
G4M45EST4	1/4	7/16 - 20
G6M45EST6	3/8	9/16 - 18
G8M45EST8	1/2	3/4 - 16
G12M45EST12	3/4	1-1/16 - 12
G16M45EST16	1	1-5/16 - 12

90 Durometer Viton® O-Ring is standard. Other O-Ring compounds are available.

## MBTST

Male Branch  
Tee - Straight  
Thread Boss

For Fractional Tube



Griplok Part #	Tube O.D. (in.)	SAE / MS Thread Size
G4MBTST4	1/4	7/16 - 20
G6MBTST6	3/8	9/16 - 18
G8MBTST8	1/2	3/4 - 16
G12MBTST12	3/4	1-1/16 - 12
G16MBTST16	1	1-5/16 - 12

90 Durometer Viton® O-Ring is standard. Other O-Ring compounds are available.

# Tube to SAE / MS

## **MRTST**

*Male Run  
Tee - Straight  
Thread Boss  
For Fractional Tube*



Griplok Part #	Tube O.D. (in.)	SAE / MS Thread Size
G4MRTST4	1/4	7/16 - 20
G6MRTST6	3/8	9/16 - 18
G8MRTST8	1/2	3/4 - 16
G12MRTST12	3/4	1-1/16 - 12
G16MRTST16	1	1-5/16 - 12

90 Durometer Viton® O-Ring is standard. Other O-Ring compounds are available.

## **MAST**

*Male Adapter -  
Straight Thread  
Boss  
For Fractional Tube*



Griplok Part #	Tube O.D. (in.)	SAE / MS Thread Size
G2MAST2	1/8	5/16 - 24
G4MAST4	1/4	7/16 - 20
G6MAST4	3/8	7/16 - 20
G6MAST6	3/8	9/16 - 18
G6MAST8	3/8	3/4 - 16
G8MAST6	1/2	9/16 - 18
G8MAST8	1/2	3/4 - 16
G12MAST12	3/4	1-1/16 - 12
G16MAST16	1	1-5/16 - 12

90 Durometer Viton® O-Ring is standard. Other O-Ring compounds are available.

# Cap and Plug

## CP

### Cap

For Fractional Tube



Griplok Part #	Tube O.D. (in.)
G1CP	1/16
G2CP	1/8
G3CP	3/16
G4CP	1/4
G5CP	5/16
G6CP	3/8
G8CP	1/2
G10CP	5/8
G12CP	3/4
G14CP	7/8
G16CP	1

## P

### Plug

For Fractional Tube



Griplok Part #	Tube O.D. (in.)
G1P	1/16
G2P	1/8
G3P	3/16
G4P	1/4
G5P	5/16
G6P	3/8
G8P	1/2
G10P	5/8
G12P	3/4
G16P	1

# Components

## **N**

### *Nut*

For Fractional Tube



Griplok Part #	Tube O.D. (in.)
G1N	1/16
G2N	1/8
G3N	3/16
G4N	1/4
G5N	5/16
G6N	3/8
G8N	1/2
G10N	5/8
G12N	3/4
G14N	7/8
G16N	1

## **FF**

### *Front Ferrule*

For Fractional Tube



Griplok Part #	Tube O.D. (in.)
G1FF	1/16
G2FF	1/8
G3FF	3/16
G4FF	1/4
G5FF	5/16
G6FF	3/8
G8FF	1/2
G10FF	5/8
G12FF	3/4
G14FF	7/8
G16FF	1

## **RF**

### *Rear Ferrule*

For Fractional Tube



Griplok Part #	Tube O.D. (in.)
G1RF	1/16
G2RF	1/8
G3RF	3/16
G4RF	1/4
G5RF	5/16
G6RF	3/8
G8RF	1/2
G10RF	5/8
G12RF	3/4
G14RF	7/8
G16RF	1

## FS

### Ferrule Set

For Fractional Tube



A Ferrule Set consists of one front ferrule and one rear ferrule and is conveniently packaged and sold in multiples of ten sets per "holding tube" housing.

Griplok Part #	Tube O.D. (in.)
G1FS	1/16
G2FS	1/8
G3FS	3/16
G4FS	1/4
G5FS	5/16
G6FS	3/8
G8FS	1/2

## KN

### Knurled Nut

For Fractional Tube



Griplok Part #	Tube O.D. (in.)
G1KN	1/16
G2KN	1/8
G3KN	3/16
G4KN	1/4
G5KN	5/16
G6KN	3/8
G8KN	1/2
G10KN	5/8
G12KN	3/4
G14KN	7/8
G16KN	1

## BN

### Bulkhead Locknut

For Fractional Tube



Griplok Part #	Tube O.D. (in.)
G1BN	1/16
G2BN	1/8
G3BN	3/16
G4BN	1/4
G5BN	5/16
G6BN	3/8
G8BN	1/2
G10BN	5/8
G12BN	3/4
G14BN	7/8
G16BN	1

# Components

## TI

### Tube Insert

For Fractional Tube



Griplok Part #	Tube O.D. (in.)	Tube I.D. (in.)
G3TI2	3/16	1/8
G4TI2	1/4	1/8
G4TI17	1/4	0.170
G4TI3	1/4	3/16
G5TI2	5/16	1/8
G5TI3	5/16	3/16
G5TI4	5/16	1/4
G6TI3	3/8	3/16
G6TI4	3/8	1/4
G8TI4	1/2	1/4
G8TI6	1/2	3/8
G10TI6	5/8	3/8
G10TI8	5/8	1/2
G12TI8	3/4	1/2
G12TI10	3/4	5/8
G16TI12	1	3/4

## DW

### Bonded Washer

For Fractional Tube



Griplok Part #	ISO Pipe Size (in.)
2DW-BSPP-SS-V	1/8
4DW-BSPP-SS-V	1/4
6DW-BSPP-SS-V	3/8
8DW-BSPP-SS-V	1/2
12DW-BSPP-SS-V	3/4
16DW-BSPP-SS-V	1

Comes standard as a 300 series stainless steel outer ring with a Viton® inner ring bonded to it. Also available with Buna-N. Replace -V with -B if Buna-N is required.



## Safety

To help ensure the safe and reliable performance of tube fitting products, complete system design must be considered prior to the installation of the tubing and tube fittings. Determining the design compatibility of materials, media, flows, temperatures and pressures; as well as implementing proper installation, operation and maintenance of the system are the responsibility of the systems' owners, designers and users.

### SSP Safety Reminders

All SSP products are designed and manufactured with safety in mind. The following is a limited list of general safety practices:

Do not install, tighten or loosen a tube fitting while the system is under pressure.

Do not loosen a tube fitting, nut or plug to relieve or bleed system pressure.

Always use a back-up wrench to hold the tube fitting body steady when tightening or loosening tube fitting nuts.

There is no need to disassemble a new tube fitting prior to use.

Use proper thread lubricants and sealants on tapered pipe threads.

Very soft, pliable plastic tubing requires a tube insert.

Tube fitting and tubing material should be similar (stainless steel fittings on stainless steel tubing, brass fittings on copper tubing, etc.) with the tubing material being fully annealed. For more specific information, refer to the Selection Guide for Instrumentation Tubing in the Duolok® catalog.

Do not weld tube fittings that are assembled. Prior to welding, remove the nut and ferrules and protect the seat and thread area of the tube fitting by covering with a plug or another nut.

## Griplok® Tube Fittings LIFETIME LIMITED WARRANTY

SSP guarantees all Griplok tube fittings and Griplok tube fitting components to be free from defects in materials and workmanship. Additionally, SSP guarantees Griplok product performance to the published catalog specifications when properly installed according to the catalog selection and installation instructions. To initiate a warranty claim, suspected defective product must be returned to SSP with the nature of potential defect documented for factory evaluation. Any product with a determined defect in material or workmanship will be replaced with an equivalent product at no charge.

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IMPROPER SELECTION OR IMPROPER USE OF THE PRODUCTS DESCRIBED HEREIN OR RELATED ITEMS CAN CAUSE PERSONAL INJURY AND PROPERTY DAMAGE.

It is the sole responsibility of the system designers and users to properly select and use products for their specific applications. This document has been printed for users with technical expertise as a reference for further investigation to determine specific product needs relative to design requirements.

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