

High Pressure Tube Fittings and Tubing

60,000 psig (4137 bar)



Medium & High Pressure Fittings and Tubing

Quick Couplings

Medium & High Pressure Valves

Line Filters

Sour Service Products





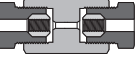
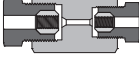
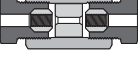

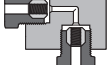
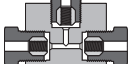

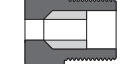
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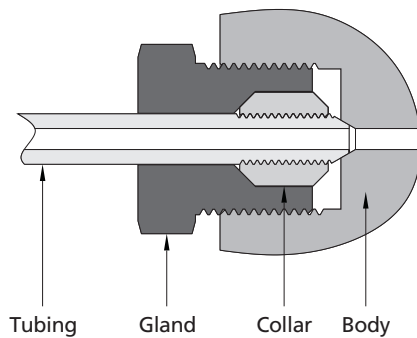
Technical Information

Tube Fittings

Features

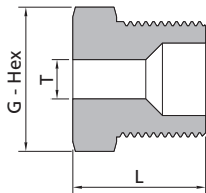
- Maximum working pressure: 60,000 psig (4137 bar)
- Working temperature range: -423°F to 1200°F (-252°C to 649°C)
- Use with high pressure tubing as standard
- Coned-and-threaded connection
- High tensile 316 Stainless Steel as raw material
- Anti-vibration connection components available
- Easy to disconnect and retighten
- Metal-to-metal seal to provide perfect leak-tight service from critical vacuum to high pressure
- Every fitting marked with size, material and heat number

Construction



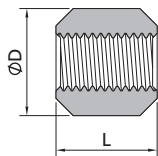
Ordering Information and Dimensions

Glands



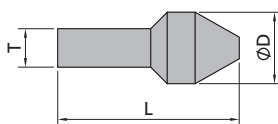
Tube			
T - Tube O.D. in.	Ordering Number	Dimensions, in. (mm)	
		G	L
1/4	SS-G-6FH4	0.63 (15.9)	0.82 (20.8)
3/8	SS-G-6FH6	0.81 (20.6)	1.13 (28.7)
9/16	SS-G-6FH9	1.19 (30.2)	1.50 (38.1)

Collars



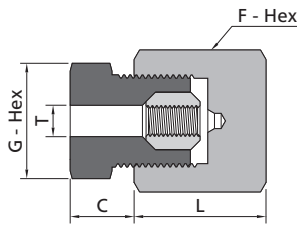
Tube			
T - Tube O.D. in.	Ordering Number	Dimensions, in. (mm)	
		D	L
1/4	SS-CO-6FH4	0.38 (9.6)	0.38 (9.6)
3/8	SS-CO-6FH6	0.50 (12.7)	0.54 (13.7)
9/16	SS-CO-6FH9	0.81 (20.6)	0.62 (15.8)

Plugs



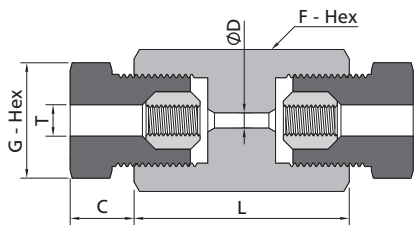
Tube			
T - Tube O.D. in.	Ordering Number	Dimensions, in. (mm)	
		D	L
1/4	SS-TP-6FH4	0.38 (9.6)	1.04 (26.4)
3/8	SS-TP-6FH6	0.50 (12.7)	1.35 (34.3)
9/16	SS-TP-6FH9	0.81 (20.6)	1.89 (48.0)

Caps



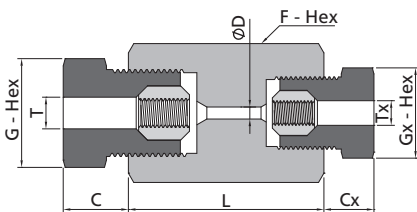
Tube		Dimensions, in. (mm)			
T - Tube O.D. in.	Ordering Number	L	C	G	F
1/4	SS-TC-6FH4	0.75 (19.1)	0.47 (11.9)	0.63 (15.9)	0.75 (19.1)
3/8	SS-TC-6FH6	1.13 (28.6)	0.61 (15.6)	0.81 (20.6)	1.00 (25.4)
9/16	SS-TC-6FH9	1.38 (34.9)	0.95 (24.1)	1.19 (30.2)	1.38 (34.9)

Unions



Tube		Dimensions, in. (mm)				
T - Tube O.D. in.	Ordering Number	L	C	D	G	F
1/4	SS-U-6FH4	1.38 (34.9)	0.47 (11.9)	0.09 (2.3)	0.63 (15.9)	0.75 (19.1)
3/8	SS-U-6FH6	1.75 (44.5)	0.61 (15.6)	0.13 (3.3)	0.81 (20.6)	1.00 (25.4)
9/16	SS-U-6FH9	2.19 (55.6)	0.95 (24.1)	0.19 (4.8)	1.19 (30.2)	1.38 (34.9)

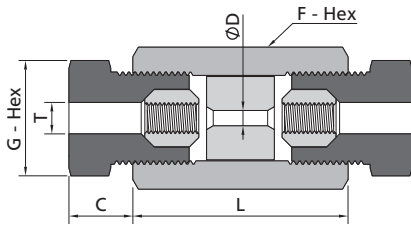
Reducing Unions



Tube			Dimensions, in. (mm)						
T - Tube O.D. in.	Tx - Tube O.D. in.	Ordering Number	L	C	Cx	D	G	Gx	F
3/8	1/4	SS-U-6FH6-6FH4	1.63 (41.3)	0.61 (15.6)	0.47 (11.9)	0.09 (2.3)	0.81 (20.6)	0.63 (15.9)	1.00 (25.4)
9/16	1/4	SS-U-6FH9-6FH4	1.75 (44.5)	0.95 (24.1)	0.47 (11.9)	0.09 (2.3)	1.19 (30.2)	0.63 (15.9)	1.38 (34.9)
9/16	3/8	SS-U-6FH9-6FH6	2.00 (50.8)	0.95 (24.1)	0.61 (15.6)	0.13 (3.3)	1.19 (30.2)	0.81 (20.6)	1.38 (34.9)

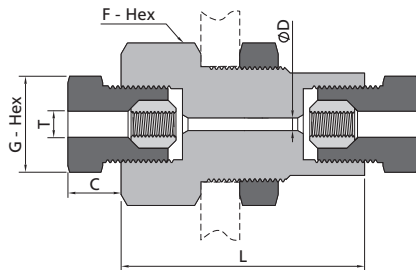
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Unions (Slip Type)



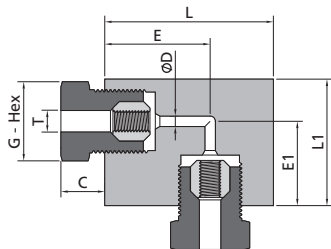
Tube		Dimensions, in. (mm)				
T - Tube O.D. in.	Ordering Number	L	C	D	G	F
1/4	SS-SU-6FH4	1.38 (34.9)	0.47 (11.9)	0.09 (2.3)	0.63 (15.9)	0.75 (19.1)
3/8	SS-SU-6FH6	1.75 (44.5)	0.61 (15.6)	0.13 (3.3)	0.81 (20.6)	1.00 (25.4)
9/16	SS-SU-6FH9	2.19 (55.6)	0.95 (24.1)	0.19 (4.8)	1.19 (30.2)	1.38 (34.9)

Bulkhead Unions



Tube		Dimensions, in. (mm)						
T - Tube O.D. in.	Ordering Number	L	C	D	G	F	Panel Hole Size	Max. Panel Thickness
1/4	SS-BU-6FH4	1.88 (47.8)	0.47 (11.9)	0.09 (2.3)	0.63 (15.9)	1.06 (27.0)	0.94 (23.9)	0.38 (9.7)
3/8	SS-BU-6FH6	2.38 (60.5)	0.61 (15.6)	0.13 (3.3)	0.81 (20.6)	1.38 (34.9)	1.13 (28.6)	0.38 (9.7)
9/16	SS-BU-6FH9	2.75 (69.9)	0.95 (24.1)	0.19 (4.8)	1.19 (30.2)	1.88 (47.6)	1.69 (42.9)	0.38 (9.7)

Union Elbows



Tube		Dimensions, in. (mm)							
T - Tube O.D. in.	Ordering Number	C	D	G	L	E	L1	E1	Thickness
1/4	SS-LU-6FH4	0.47 (11.9)	0.09 (2.3)	0.63 (15.9)	1.50 (38.1)	0.88 (22.4)	1.00 (25.4)	0.62 (15.7)	0.75 (19.1)
3/8	SS-LU-6FH6	0.61 (15.6)	0.13 (3.3)	0.81 (20.6)	2.00 (50.8)	1.25 (31.8)	1.50 (38.1)	1.00 (25.4)	1.00 (25.4)
9/16	SS-LU-6FH9	0.95 (24.1)	0.19 (4.8)	1.19 (30.2)	2.62 (66.5)	1.88 (47.8)	1.88 (47.8)	1.12 (28.4)	1.50 (38.1)

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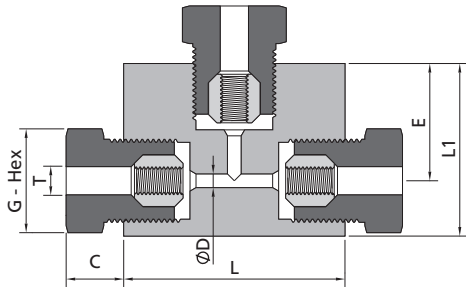
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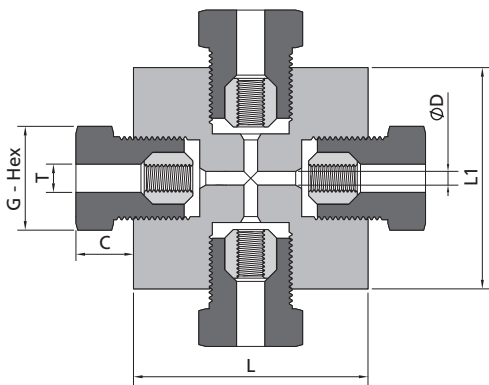
Technical Information

Union Tees



Tube		Dimensions, in. (mm)						
T - Tube O.D. in.	Ordering Number	C	D	G	L	L1	E	Thickness
1/4	SS-TTT-6FH4	0.47 (11.9)	0.09 (2.3)	0.63 (15.9)	2.00 (50.8)	1.25 (31.8)	0.88 (22.4)	0.75 (19.1)
3/8	SS-TTT-6FH6	0.61 (15.6)	0.13 (3.3)	0.81 (20.6)	2.00 (50.8)	1.56 (39.6)	1.06 (26.9)	1.00 (25.4)
9/16	SS-TTT-6FH9	0.95 (24.1)	0.19 (4.8)	1.19 (30.2)	2.62 (66.5)	2.12 (53.8)	1.38 (35.0)	1.50 (38.1)

Union Crosses



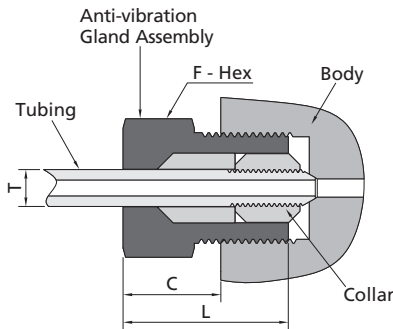
Tube		Dimensions, in. (mm)					
T - Tube O.D. in.	Ordering Number	C	D	G	L	L1	Thickness
1/4	SS-C-6FH4	0.47 (11.9)	0.09 (2.3)	0.63 (15.9)	2.00 (50.8)	1.25 (31.8)	0.75 (19.1)
3/8	SS-C-6FH6	0.61 (15.6)	0.13 (3.3)	0.81 (20.6)	2.00 (50.8)	2.12 (53.8)	1.00 (25.4)
9/16	SS-C-6FH9	0.95 (24.1)	0.19 (4.8)	1.19 (30.2)	2.62 (66.5)	2.75 (69.9)	1.50 (38.1)

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Anti-vibration Gland Assemblies

The extreme vibration or shock in tubing systems, such as mobile pressure systems or long tubing runs culminating at a compressor are subjected to, will be prevented by using FITOK Anti-vibration Gland Assemblies. These assemblies provide the same reliable connection as standard FITOK glands to essentially prolong vibrational fatigue life.

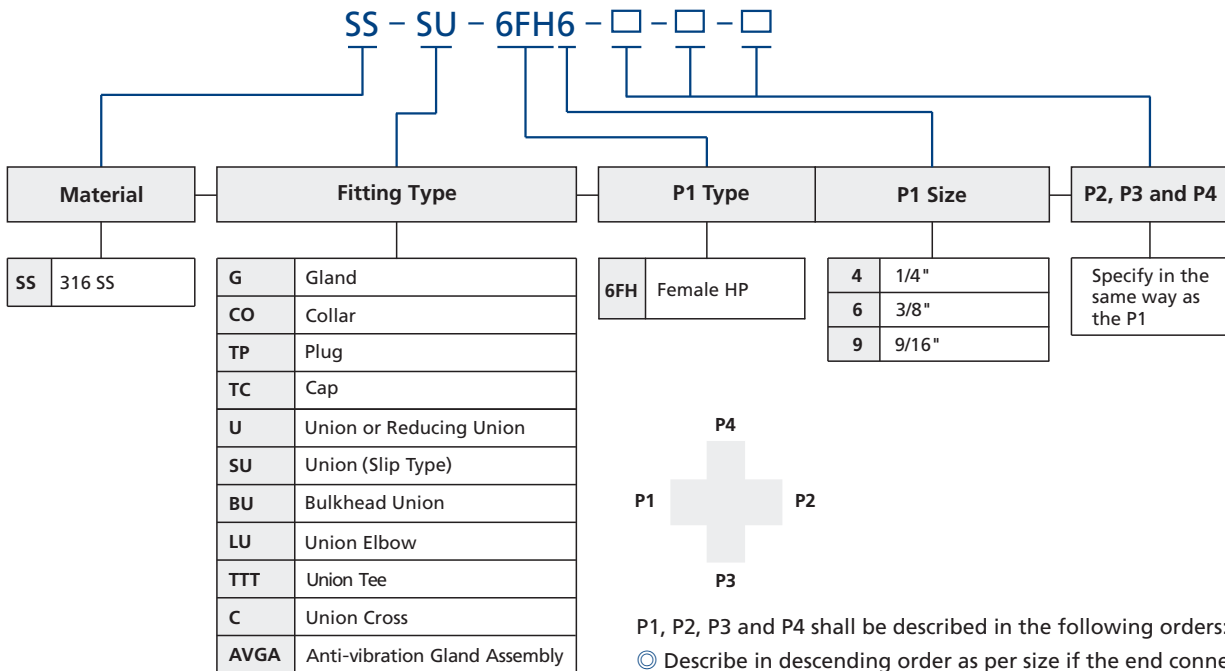
A coned and threaded tubing, when subjected to unusual or excessive vibration, may fail prematurely and break at the last thread. FITOK Anti-vibration Gland Assembly acts to move the fulcrum of vibration away from the threaded part of the tubing onto the strong, solid wall of the tubing. A wedge-like collet firmly holds the assembly in place, virtually eliminating premature tubing failure while reliably maintaining a leakage-free connection between the tubing and the connection seat.



Tube		Dimensions, in. (mm)		
T - Tube O.D. in.	Ordering Number	L	C	F
1/4	SS-AVGA-6FH4	0.81 (20.6)	0.47 (11.9)	0.63 (15.9)
3/8	SS-AVGA-6FH6	1.12 (28.4)	0.61 (15.6)	0.81 (20.6)
9/16	SS-AVGA-6FH9	1.50 (38.1)	0.95 (24.1)	1.19 (30.2)

NOTE: Dimensions are for reference only and are subject to change.

Ordering Number Description



NOTE: "Ordering Number Description" is a reference to understand the combination rules of FITOK product part number. Not all combinations are available.

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Tubing

Features

- ⦿ Cold drawn 316/316L Stainless Steel seamless tubing
- ⦿ Working temperature range: -423°F to 1200°F (-252°C to 649°C)
- ⦿ Every tubing marked with material, size and heat number
- ⦿ Use with high pressure tube fittings

Ordering Information and Dimensions

Tube O.D. in.	Tube I.D. in.	Material Grade	Basic Ordering Number	Max./Min. O.D. in. (mm)
1/4	0.083	316/316L	SS-HT-6FH4-	0.248/0.243 (6.30/6.17)
3/8	0.125	316/316L	SS-HT-6FH6-	0.370/0.365 (9.40/9.27)
9/16	0.188	316/316L	SS-HT-6FH9-	0.557/0.552 (14.15/14.02)



Add the length designator as a suffix to the basic ordering number to get the complete ordering number. The length designator "-10" means 10 feet. The length designator "-6M" means 6 meters.

Examples:

1. If 10 feet of 1/4" O.D. tubing is needed, the complete ordering number is SS-HT-6FH4-10.
2. If 6 meters of 9/16" O.D. tubing is needed, the complete ordering number is SS-HT-6FH9-6M.

The tubing is available in random lengths but no more than 20 feet (6 meters).

Working Pressure

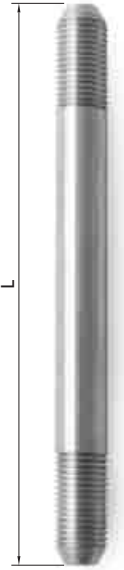
Tube O.D. in.	Working Pressure, psig (bar)				
	-423 to 100°F (-252 to 37.8°C)	200°F (93°C)	400°F (204°C)	600°F (316°C)	800°F (427°C)
1/4	60,000 (4137)	60,000 (4137)	57,750 (3982)	54,250 (3740)	50,700 (3496)
3/8	60,000 (4137)	60,000 (4137)	57,750 (3982)	54,250 (3740)	50,700 (3496)
9/16	60,000 (4137)	60,000 (4137)	57,750 (3982)	54,250 (3740)	50,700 (3496)

Data in this table are applied only to the working temperature below 800°F (427°C). For the working temperature above 800°F (427°C), please contact FITOK Group or our authorized distributors.

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Coned and Threaded Nipples

- ⦿ Machined from high pressure tubing
- ⦿ For 1/4", 3/8" and 9/16" O.D. high pressure tubing, manual coning and threading tools can be used to make nipples



Tube O.D. in.	Tube I.D. in.	Ordering Number	L in. (mm)
1/4	0.083	SS-CTN-6FH4-2.75	2.75 (69.9)
1/4	0.083	SS-CTN-6FH4-3	3 (76.2)
1/4	0.083	SS-CTN-6FH4-4	4 (101.6)
1/4	0.083	SS-CTN-6FH4-6	6 (152.4)
1/4	0.083	SS-CTN-6FH4-8	8 (203.2)
1/4	0.083	SS-CTN-6FH4-10	10 (254.0)
1/4	0.083	SS-CTN-6FH4-12	12 (304.8)
3/8	0.125	SS-CTN-6FH6-3	3 (76.2)
3/8	0.125	SS-CTN-6FH6-4	4 (101.6)
3/8	0.125	SS-CTN-6FH6-6	6 (152.4)
3/8	0.125	SS-CTN-6FH6-8	8 (203.2)
3/8	0.125	SS-CTN-6FH6-10	10 (254.0)
3/8	0.125	SS-CTN-6FH6-12	12 (304.8)
9/16	0.188	SS-CTN-6FH9-4	4 (101.6)
9/16	0.188	SS-CTN-6FH9-6	6 (152.4)
9/16	0.188	SS-CTN-6FH9-8	8 (203.2)
9/16	0.188	SS-CTN-6FH9-10	10 (254.0)
9/16	0.188	SS-CTN-6FH9-12	12 (304.8)

Installation Instructions

Please see G-07.

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FK-IC-HF-03-EN-170613