60H Series High Pressure Fittings

60,000 psig (4137 bar)

Contents

Glands - HG

A-30

Collars - HCO

A-30

Plugs - HTP

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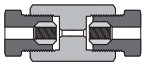
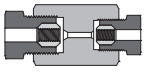
Unions - HU



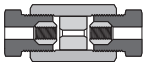
A-31

Reducing Unions - HU



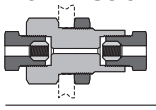
A-31

Unions (Slip Type) - HSU



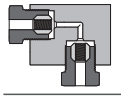
A-32

Bulkhead Unions - HBU



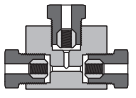
A-32

Union Elbows - HLU



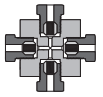
A-32

Union Tees - HT



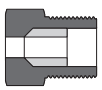
A-33

Union Crosses - HX



A-33

Anti-vibration Gland Assemblies - HAV



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Installation Instructions A-108

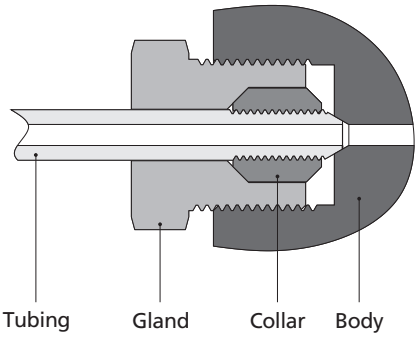
Connection Information A-02

Ordering Number Description A-34

Features

- Working pressure: 60,000 psig (4137 bar)
- Working temperature range: -423°F to 1200°F (-252°C to 649°C)
- Use with T60H series tubing as standard, tubing sizes available in 1/4", 3/8" and 9/16"
- High tensile 316 stainless steel material
- Every fitting marked with size, material and trace ID

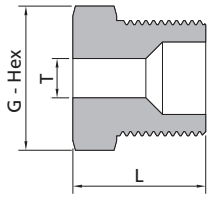
Construction



Ordering Information and Dimensions

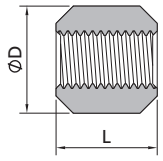
Dimensions are for reference only and are subject to change.

Glands



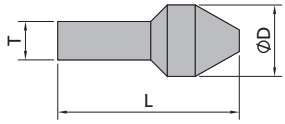
Tube			
T - Tube O.D. in.	Ordering Number	Dimensions, in. (mm)	
		G	L
1/4	SS-HG-HF4	0.63 (15.9)	0.82 (20.8)
3/8	SS-HG-HF6	0.81 (20.6)	1.13 (28.7)
9/16	SS-HG-HF9	1.19 (30.2)	1.50 (38.1)

Collars



Tube			
T - Tube O.D. in.	Ordering Number	Dimensions, in. (mm)	
		D	L
1/4	SS-HCO-HF4	0.38 (9.6)	0.38 (9.6)
3/8	SS-HCO-HF6	0.50 (12.7)	0.54 (13.7)
9/16	SS-HCO-HF9	0.81 (20.6)	0.62 (15.8)

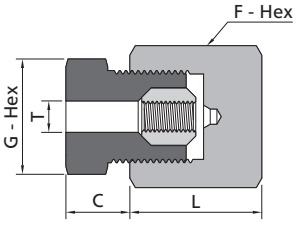
Plugs ①



Tube			
T - Tube O.D. in.	Ordering Number	Dimensions, in. (mm)	
		D	L
1/4	SS-HTP-HF4	0.38 (9.6)	1.04 (26.4)
3/8	SS-HTP-HF6	0.50 (12.7)	1.35 (34.3)
9/16	SS-HTP-HF9	0.81 (20.6)	1.89 (48.0)

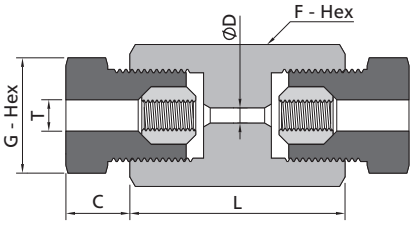
① *When using plug, collar is not required.*

Caps



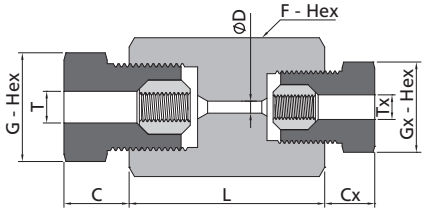
Tube					
T - Tube O.D. in.	Ordering Number	Dimensions, in. (mm)			
		L	C	G	F
1/4	SS-HTC-HF4	0.75 (19.1)	0.47 (11.9)	0.63 (15.9)	0.75 (19.1)
3/8	SS-HTC-HF6	1.13 (28.6)	0.61 (15.6)	0.81 (20.6)	1.00 (25.4)
9/16	SS-HTC-HF9	1.38 (34.9)	0.95 (24.1)	1.19 (30.2)	1.38 (34.9)

Unions



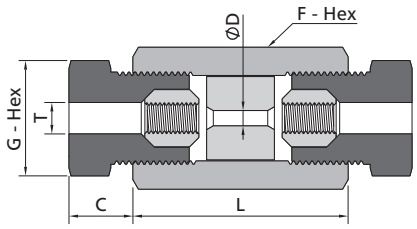
Tube						
T - Tube O.D. in.	Ordering Number	Dimensions, in. (mm)				
		L	C	D	G	F
1/4	SS-HU-HF4	1.38 (34.9)	0.47 (11.9)	0.09 (2.4)	0.63 (15.9)	0.75 (19.1)
3/8	SS-HU-HF6	1.75 (44.5)	0.61 (15.6)	0.13 (3.2)	0.81 (20.6)	1.00 (25.4)
9/16	SS-HU-HF9	2.19 (55.6)	0.95 (24.1)	0.19 (4.8)	1.19 (30.2)	1.38 (34.9)

Reducing Unions



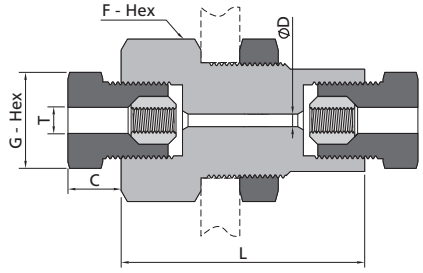
Tube									
T - Tube O.D. in.	Tx - Tube O.D. in.	Ordering Number	Dimensions, in. (mm)						
			L	C	Cx	D	G	Gx	F
3/8	1/4	SS-HU-HF6-HF4	1.63 (41.3)	0.61 (15.6)	0.47 (11.9)	0.09 (2.4)	0.81 (20.6)	0.63 (15.9)	1.00 (25.4)
9/16	1/4	SS-HU-HF9-HF4	1.75 (44.5)	0.95 (24.1)	0.47 (11.9)	0.09 (2.4)	1.19 (30.2)	0.63 (15.9)	1.38 (34.9)
9/16	3/8	SS-HU-HF9-HF6	2.00 (50.8)	0.95 (24.1)	0.61 (15.6)	0.13 (3.2)	1.19 (30.2)	0.81 (20.6)	1.38 (34.9)

Unions (Slip Type)



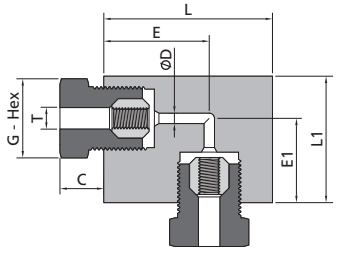
Tube						
T - Tube O.D. in.	Ordering Number	Dimensions, in. (mm)				
		L	C	D	G	F
1/4	SS-HSU-HF4	1.38 (34.9)	0.47 (11.9)	0.09 (2.4)	0.63 (15.9)	0.75 (19.1)
3/8	SS-HSU-HF6	1.75 (44.5)	0.61 (15.6)	0.13 (3.2)	0.81 (20.6)	1.00 (25.4)
9/16	SS-HSU-HF9	2.19 (55.6)	0.95 (24.1)	0.19 (4.8)	1.19 (30.2)	1.38 (34.9)

Bulkhead Unions



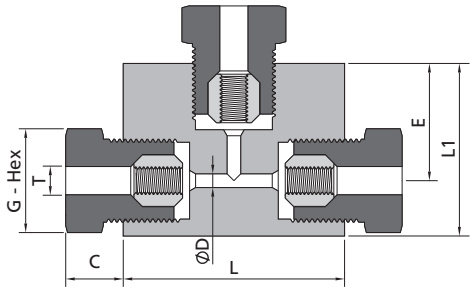
Tube								
T - Tube O.D. in.	Ordering Number	Dimensions, in. (mm)						
		L	C	D	G	F	Panel Hole Size	Max. Panel Thickness
1/4	SS-HBU-HF4	1.88 (47.8)	0.47 (11.9)	0.09 (2.4)	0.63 (15.9)	1.06 (27.0)	0.94 (23.9)	0.38 (9.7)
3/8	SS-HBU-HF6	2.38 (60.5)	0.61 (15.6)	0.13 (3.2)	0.81 (20.6)	1.38 (34.9)	1.13 (28.6)	0.38 (9.7)
9/16	SS-HBU-HF9	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



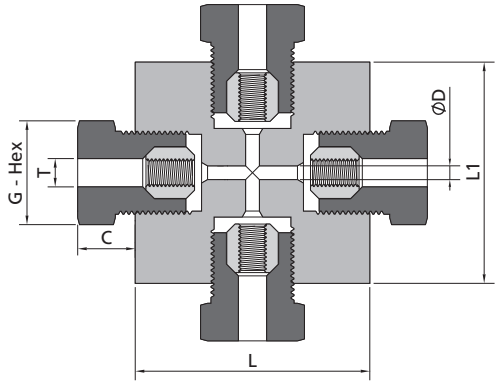
Tube									
T - Tube O.D. in.	Ordering Number	Dimensions, in. (mm)							
		C	D	G	L	E	L1	E1	Thickness
1/4	SS-HLU-HF4	0.47 (11.9)	0.09 (2.4)	0.63 (15.9)	1.50 (38.1)	0.88 (22.4)	1.00 (25.4)	0.62 (15.7)	0.75 (19.1)
3/8	SS-HLU-HF6	0.61 (15.6)	0.13 (3.2)	0.81 (20.6)	2.00 (50.8)	1.25 (31.8)	1.50 (38.1)	1.00 (25.4)	1.00 (25.4)
9/16	SS-HLU-HF9	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)

Union Tees



Tube								
T - Tube O.D. in.	Ordering Number	Dimensions, in. (mm)						
		C	D	G	L	L1	E	Thickness
1/4	SS-HT-HF4	0.47 (11.9)	0.09 (2.4)	0.63 (15.9)	2.00 (50.8)	1.25 (31.8)	0.88 (22.4)	0.75 (19.1)
3/8	SS-HT-HF6	0.61 (15.6)	0.13 (3.2)	0.81 (20.6)	2.00 (50.8)	1.56 (39.6)	1.06 (26.9)	1.00 (25.4)
9/16	SS-HT-HF9	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



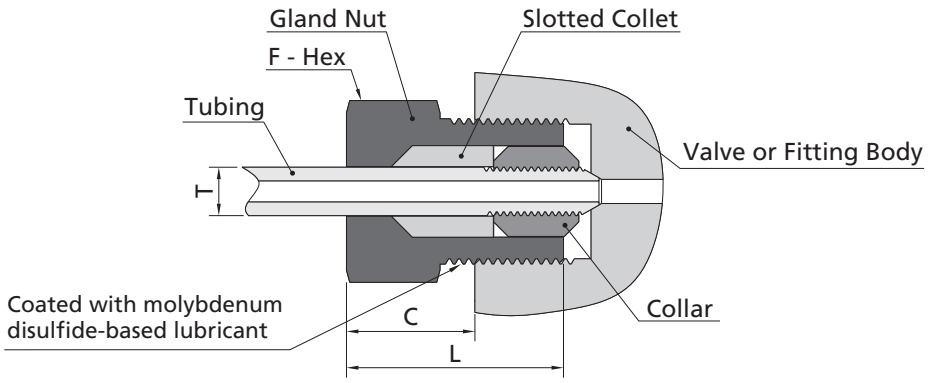
Tube							
T - Tube O.D. in.	Ordering Number	Dimensions, in. (mm)					
		C	D	G	L	L1	Thickness
1/4	SS-HX-HF4	0.47 (11.9)	0.09 (2.4)	0.63 (15.9)	2.00 (50.8)	1.25 (31.8)	0.75 (19.1)
3/8	SS-HX-HF6	0.61 (15.6)	0.13 (3.2)	0.81 (20.6)	2.00 (50.8)	2.12 (53.8)	1.00 (25.4)
9/16	SS-HX-HF9	0.95 (24.1)	0.19 (4.8)	1.19 (30.2)	2.62 (66.5)	2.75 (69.9)	1.50 (38.1)

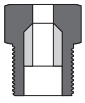
Anti-Vibration Gland Assemblies

Working pressure: 60,000 psig (4137 bar)

Tubing systems may be subject to extreme vibration or shock. In such applications, these assemblies provide the same reliable connection as standard FITOK glands to essentially prolong vibrational fatigue life.

A complete ordering number for anti-vibration gland assembly (for example: SS-HAV-HF4) includes gland nut and slotted collet. These two parts can also be ordered separately, as shown in the tables below. To order components with anti-vibration gland assemblies, add "-AV" to ordering number.



Tube					
Anti-vibration Gland Assemblies	T - Tube O.D. in.	Ordering Number	Dimensions, in. (mm)		
			L	C	F
	1/4	SS-HAV-HF4	0.81 (20.6)	0.47 (11.9)	0.63 (15.9)
	3/8	SS-HAV-HF6	1.12 (28.4)	0.61 (15.6)	0.81 (20.6)
	9/16	SS-HAV-HF9	1.50 (38.1)	0.95 (24.1)	1.19 (30.2)

Installation Instructions

Please see A-108.

Connection Information

Please see A-02.

Ordering Number Description

SS – HU – HF6 – □ – □ – □

Material

SS	316 SS

Fitting Type

HG	Gland
HCO	Collar
HTP	Plug
HTC	Cap
HU	Union or Reducing Union
HSU	Union (Slip Type)
HBU	Bulkhead Union
HLU	Union Elbow
HT	Union Tee
HX	Union Cross
HAV	Anti-vibration Gland Assembly

P1 Type

HF	Female High Pressure

P1 Size

4	1/4"
6	3/8"
9	9/16"

P2, P3 and P4

Specified in the same way as the P1

Notes: 1. For more details regarding High Pressure connection, please see **Connection Information** on A-02.
2. "Ordering Number Description" is a reference to understand the combination rules of FITOK product part number. Not all combinations are available.