

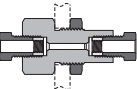
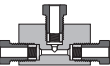
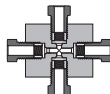
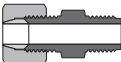
Fittings
Tubing
Quick Couplings
Line Filters
Valves
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Tools and Installation Instructions
Technical Information
Part Number Crossover Charts

20M Series Medium Pressure Fittings

20,000 psig (1379 bar)



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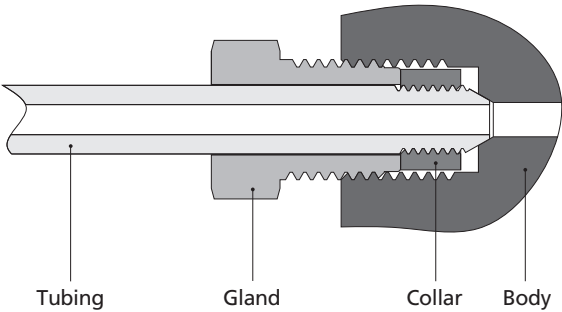
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Features

- Working pressure: 20,000 psig (1379 bar)
- Working temperature range: -423°F to 1200°F (-252°C to 649°C)
- Use with T20M series tubing as standard, tubing sizes available in 1/4", 3/8", 9/16", 3/4" and 1"
- High tensile 316 stainless steel material
- Every fitting marked with size, material and heat number

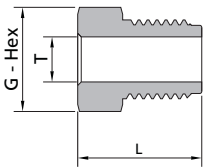
Construction



Ordering Information and Dimensions

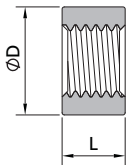
Dimensions are for reference only and are subject to change.

Glands

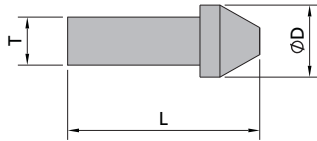


Tube			
T - Tube O.D. in.	Ordering Number	Dimensions, in. (mm)	
		G	L
1/4	SS-MG-MF4	0.50 (12.7)	0.58 (14.7)
3/8	SS-MG-MF6	0.63 (15.9)	0.73 (18.5)
9/16	SS-MG-MF9	0.94 (23.8)	0.88 (22.4)
3/4	SS-MG-MF12	1.19 (30.2)	1.00 (25.4)
1	SS-MG-MF16	1.38 (34.9)	1.38 (35.1)

Collars



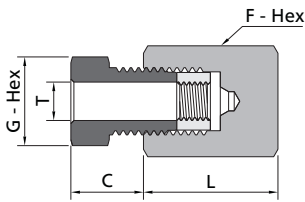
Tube			
T - Tube O.D. in.	Ordering Number	Dimensions, in. (mm)	
		D	L
1/4	SS-MCO-MF4	0.38 (9.7)	0.22 (5.6)
3/8	SS-MCO-MF6	0.47 (11.9)	0.25 (6.4)
9/16	SS-MCO-MF9	0.72 (18.3)	0.31 (7.9)
3/4	SS-MCO-MF12	0.94 (23.8)	0.37 (9.4)
1	SS-MCO-MF16	1.25 (31.8)	0.50 (12.7)

Plugs^①

① When using plug, collar is not required.

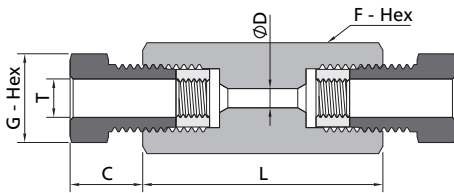
Tube			
T - Tube O.D. in.	Ordering Number	Dimensions, in. (mm)	
		D	L
1/4	SS-MTP-MF4	0.38 (9.7)	0.94 (23.8)
3/8	SS-MTP-MF6	0.47 (11.9)	1.18 (30.0)
9/16	SS-MTP-MF9	0.72 (18.3)	1.40 (35.6)
3/4	SS-MTP-MF12	0.94 (23.8)	1.69 (42.9)
1	SS-MTP-MF16	1.25 (31.8)	2.20 (55.9)

Caps



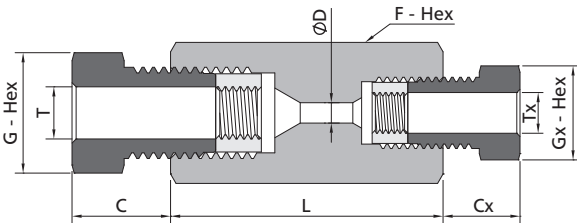
Tube					
T - Tube O.D. in.	Ordering Number	Dimensions, in. (mm)			
		L	C	G	F
1/4	SS-MTC-MF4	0.81 (20.6)	0.38 (9.7)	0.50 (12.7)	0.63 (15.9)
3/8	SS-MTC-MF6	1.13 (28.6)	0.44 (11.2)	0.63 (15.9)	0.75 (19.1)
9/16	SS-MTC-MF9	1.38 (34.9)	0.55 (14.0)	0.94 (23.8)	1.00 (25.4)
3/4	SS-MTC-MF12	1.75 (44.5)	0.60 (15.2)	1.19 (30.2)	1.38 (34.9)
1	SS-MTC-MF16	2.25 (57.2)	0.74 (18.7)	1.38 (34.9)	1.75 (44.5)

Unions



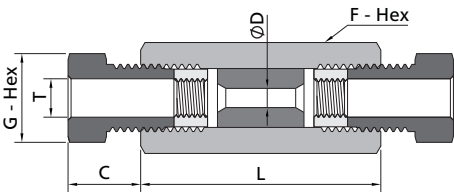
Tube						
T - Tube O.D. in.	Ordering Number	Dimensions, in. (mm)				
		L	C	D	G	F
1/4	SS-MU-MF4	1.62 (41.1)	0.38 (9.7)	0.11 (2.8)	0.50 (12.7)	0.63 (15.9)
3/8	SS-MU-MF6	1.75 (44.5)	0.44 (11.2)	0.20 (5.1)	0.63 (15.9)	0.75 (19.1)
9/16	SS-MU-MF9	2.14 (54.3)	0.55 (14.0)	0.31 (7.9)	0.94 (23.8)	1.00 (25.4)
3/4	SS-MU-MF12	2.50 (63.5)	0.60 (15.2)	0.44 (11.1)	1.19 (30.2)	1.38 (34.9)
1	SS-MU-MF16	3.50 (88.9)	0.74 (18.7)	0.56 (14.3)	1.38 (34.9)	1.75 (44.5)

Reducing Unions



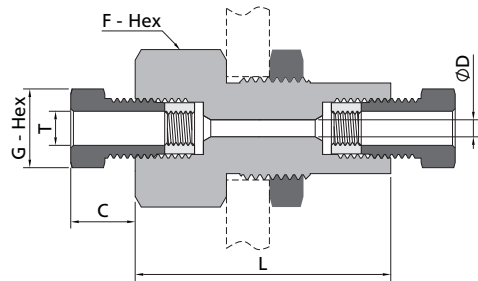
Tube									
T - Tube O.D. in.	Tx - Tube O.D. in.	Ordering Number	Dimensions, in. (mm)						
			L	C	Cx	D	G	Gx	F
3/8	1/4	SS-MU-MF6-MF4	1.75 (44.5)	0.44 (11.2)	0.38 (9.7)	0.11 (2.8)	0.63 (15.9)	0.50 (12.7)	0.75 (19.1)
9/16	1/4	SS-MU-MF9-MF4	2.00 (50.8)	0.55 (14.0)	0.38 (9.7)	0.11 (2.8)	0.94 (23.8)	0.50 (12.7)	1.00 (25.4)
9/16	3/8	SS-MU-MF9-MF6	2.00 (50.8)	0.55 (14.0)	0.44 (11.2)	0.20 (5.1)	0.94 (23.8)	0.63 (15.9)	1.00 (25.4)
3/4	1/4	SS-MU-MF12-MF4	2.25 (57.2)	0.60 (15.2)	0.38 (9.7)	0.11 (2.8)	1.19 (30.2)	0.50 (12.7)	1.38 (34.9)
3/4	3/8	SS-MU-MF12-MF6	2.25 (57.2)	0.60 (15.2)	0.44 (11.2)	0.20 (5.1)	1.19 (30.2)	0.63 (15.9)	1.38 (34.9)
3/4	9/16	SS-MU-MF12-MF9	2.50 (63.5)	0.60 (15.2)	0.55 (14.0)	0.31 (7.9)	1.19 (30.2)	0.94 (23.8)	1.38 (34.9)
1	1/4	SS-MU-MF16-MF4	2.75 (69.9)	0.74 (18.7)	0.38 (9.7)	0.11 (2.8)	1.38 (34.9)	0.50 (12.7)	1.75 (44.5)
1	3/8	SS-MU-MF16-MF6	2.88 (73.0)	0.74 (18.7)	0.44 (11.2)	0.20 (5.1)	1.38 (34.9)	0.63 (15.9)	1.75 (44.5)
1	9/16	SS-MU-MF16-MF9	3.00 (76.2)	0.74 (18.7)	0.55 (14.0)	0.31 (7.9)	1.38 (34.9)	0.94 (23.8)	1.75 (44.5)
1	3/4	SS-MU-MF16-MF12	3.00 (76.2)	0.74 (18.7)	0.60 (15.2)	0.44 (11.1)	1.38 (34.9)	1.19 (30.2)	1.75 (44.5)

Unions (Slip Type)



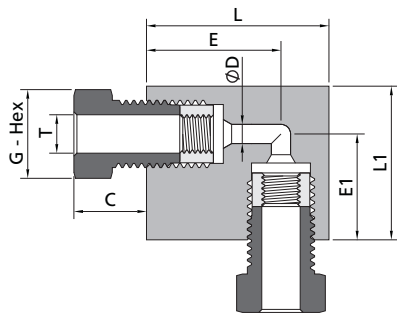
Tube						
T - Tube O.D. in.	Ordering Number	Dimensions, in. (mm)				
		L	C	D	G	F
1/4	SS-MSU-MF4	1.62 (41.1)	0.38 (9.7)	0.11 (2.8)	0.50 (12.7)	0.63 (15.9)
3/8	SS-MSU-MF6	1.75 (44.5)	0.44 (11.2)	0.20 (5.1)	0.63 (15.9)	0.75 (19.1)
9/16	SS-MSU-MF9	2.14 (54.3)	0.55 (14.0)	0.31 (7.9)	0.94 (23.8)	1.00 (25.4)
3/4	SS-MSU-MF12	2.50 (63.5)	0.60 (15.2)	0.44 (11.1)	1.19 (30.2)	1.38 (34.9)
1	SS-MSU-MF16	3.50 (88.9)	0.74 (18.7)	0.56 (14.3)	1.38 (34.9)	1.75 (44.5)

Bulkhead Unions



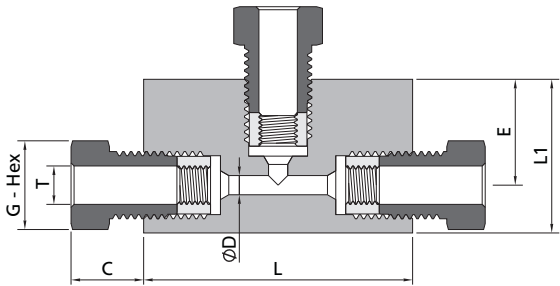
Tube		Dimensions, in. (mm)						
T - Tube O.D. in.	Ordering Number	L	C	D	G	F	Panel Hole Size	Max. Panel Thickness
1/4	SS-MBU-MF4	1.88 (47.8)	0.38 (9.7)	0.11 (2.8)	0.50 (12.7)	1.00 (25.4)	0.81 (20.6)	0.38 (9.7)
3/8	SS-MBU-MF6	2.00 (50.8)	0.44 (11.2)	0.20 (5.1)	0.63 (15.9)	1.06 (27.0)	0.94 (23.9)	0.38 (9.7)
9/16	SS-MBU-MF9	2.38 (60.5)	0.55 (14.0)	0.31 (7.9)	0.94 (23.8)	1.38 (34.9)	1.13 (28.6)	0.38 (9.7)
3/4	SS-MBU-MF12	2.62 (66.5)	0.60 (15.2)	0.44 (11.1)	1.19 (30.2)	1.88 (47.6)	1.69 (42.9)	0.38 (9.7)
1	SS-MBU-MF16	3.50 (88.9)	0.74 (18.7)	0.56 (14.3)	1.38 (34.9)	2.13 (54.0)	1.94 (49.3)	0.38 (9.7)

Union Elbows



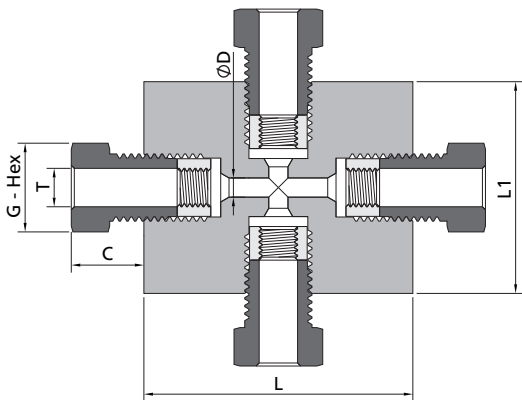
Tube		Dimensions, in. (mm)							
T - Tube O.D. in.	Ordering Number	C	D	G	L	E	L1	E1	Thickness
1/4	SS-MLU-MF4	0.38 (9.7)	0.11 (2.8)	0.50 (12.7)	1.12 (28.4)	0.75 (19.1)	1.12 (28.4)	0.75 (19.1)	0.63 (15.9)
3/8	SS-MLU-MF6	0.44 (11.2)	0.20 (5.1)	0.63 (15.9)	1.38 (34.9)	1.00 (25.4)	1.38 (34.9)	1.00 (25.4)	0.75 (19.1)
9/16	SS-MLU-MF9	0.55 (14.0)	0.31 (7.9)	0.94 (23.8)	1.75 (44.5)	1.25 (31.8)	1.75 (44.5)	1.25 (31.8)	1.00 (25.4)
3/4	SS-MLU-MF12	0.60 (15.2)	0.44 (11.1)	1.19 (30.2)	2.25 (57.2)	1.50 (38.1)	2.25 (57.2)	1.50 (38.1)	1.38 (34.9)
1	SS-MLU-MF16	0.74 (18.7)	0.56 (14.3)	1.38 (34.9)	3.00 (76.2)	2.06 (52.3)	3.00 (76.2)	2.06 (52.3)	1.75 (44.5)

Union Tees



Tube		Dimensions, in. (mm)						
T - Tube O.D. in.	Ordering Number	C	D	G	L	L1	E	Thickness
1/4	SS-MT-MF4	0.38 (9.7)	0.11 (2.8)	0.50 (12.7)	1.50 (38.1)	1.12 (28.4)	0.75 (19.1)	0.63 (15.9)
3/8	SS-MT-MF6	0.44 (11.2)	0.20 (5.1)	0.63 (15.9)	2.00 (50.8)	1.38 (34.9)	1.00 (25.4)	0.75 (19.1)
9/16	SS-MT-MF9	0.55 (14.0)	0.31 (7.9)	0.94 (23.8)	2.50 (63.5)	1.75 (44.5)	1.25 (31.8)	1.00 (25.4)
3/4	SS-MT-MF12	0.60 (15.2)	0.44 (11.1)	1.19 (30.2)	3.00 (76.2)	2.25 (57.2)	1.50 (38.1)	1.38 (34.9)
1	SS-MT-MF16	0.74 (18.7)	0.56 (14.3)	1.38 (34.9)	4.12 (104.6)	3.00 (76.2)	2.06 (52.3)	1.75 (44.5)

Union Crosses



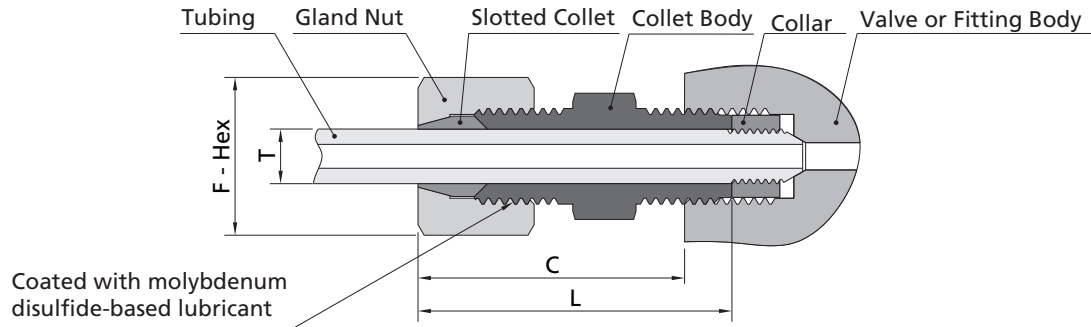
Tube		Dimensions, in. (mm)					
T - Tube O.D. in.	Ordering Number	C	D	G	L	L1	Thickness
1/4	SS-MX-MF4	0.38 (9.7)	0.11 (2.8)	0.50 (12.7)	1.50 (38.1)	1.50 (38.1)	0.63 (15.9)
3/8	SS-MX-MF6	0.44 (11.2)	0.20 (5.1)	0.63 (15.9)	2.00 (50.8)	2.00 (50.8)	0.75 (19.1)
9/16	SS-MX-MF9	0.55 (14.0)	0.31 (7.9)	0.94 (23.8)	2.50 (63.5)	2.50 (63.5)	1.00 (25.4)
3/4	SS-MX-MF12	0.60 (15.2)	0.44 (11.1)	1.19 (30.2)	3.00 (76.2)	3.00 (76.2)	1.38 (34.9)
1	SS-MX-MF16	0.74 (18.7)	0.56 (14.3)	1.38 (34.9)	4.12 (104.6)	4.12 (104.6)	1.75 (44.5)

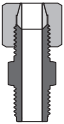
Anti-vibration Gland Assemblies

Working pressure: 20,000 psig (1379 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-MAV-MF4) includes gland nut, slotted collet, collet body and collar. These three 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-MAV-MF4	1.24 (31.6)	1.05 (26.7)	0.63 (15.9)
	3/8	SS-MAV-MF6	1.50 (38.1)	1.22 (30.9)	0.81 (20.6)
	9/16	SS-MAV-MF9	1.78 (45.2)	1.42 (36.0)	0.94 (23.8)
	3/4	SS-MAV-MF12	2.00 (50.8)	1.61 (40.8)	1.38 (34.9)
	1	SS-MAV-MF16	2.38 (60.5)	1.74 (44.3)	1.50 (38.1)

Tube		
Gland Nut	T - Tube O.D. in.	Ordering Number
	1/4	SS-MAV-MF4-N
	3/8	SS-MAV-MF6-N
	9/16	SS-MAV-MF9-N
	3/4	SS-MAV-MF12-N
	1	SS-MAV-MF16-N

Tube		
Slotted Collet	T - Tube O.D. in.	Ordering Number
	1/4	SS-MAV-MF4-SC
	3/8	SS-MAV-MF6-SC
	9/16	SS-MAV-MF9-SC
	3/4	SS-MAV-MF12-SC
	1	SS-MAV-MF16-SC

Tube		
Collet Body	T - Tube O.D. in.	Ordering Number
	1/4	SS-MAV-MF4-B
	3/8	SS-MAV-MF6-B
	9/16	SS-MAV-MF9-B
	3/4	SS-MAV-MF12-B
	1	SS-MAV-MF16-B

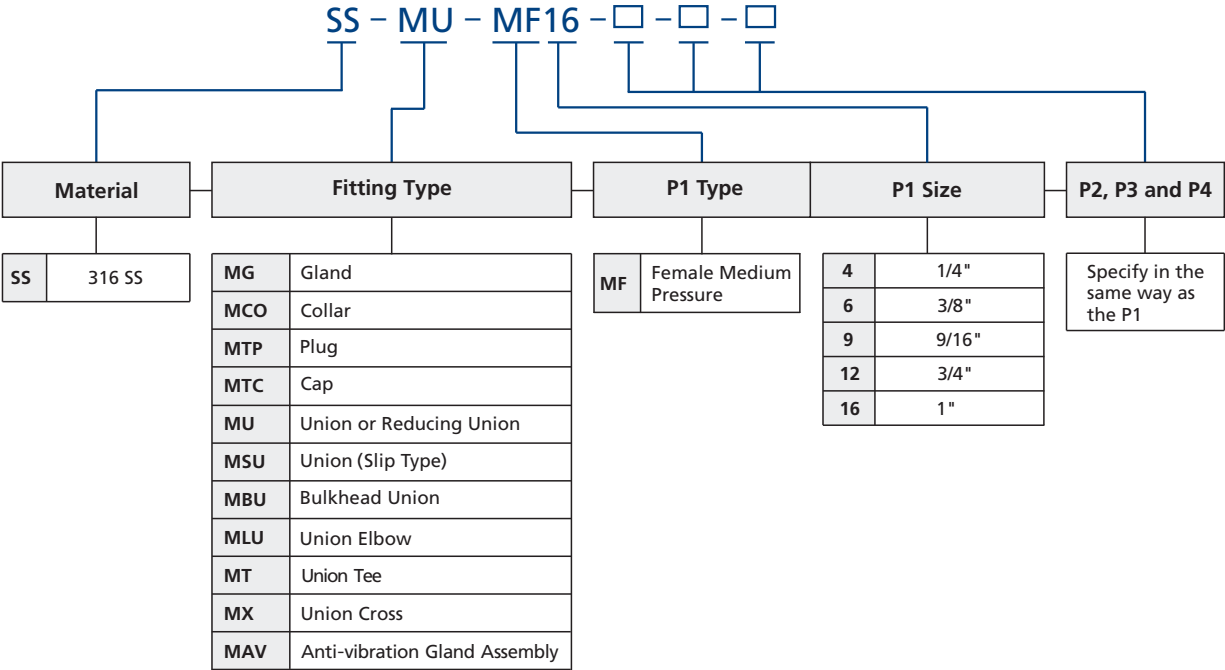
Installation Instructions

Please see H-07.

Connection Information

Please see I-02.

Ordering Number Description



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