

Quick-connects

QC, QF, QV, QM and QTM Series



FITOK Group

FITOK GmbH (Headquarter)
Spremlinger Landstr. 115, 63069 Offenbach am Main, Germany
Tel.: +49 69 8900 4498 Fax: +49 69 8900 4495

FITOK, Inc.
13843 North Promenade Blvd., Suite 750, Stafford, Texas 77477, USA
Tel.: +1 281 888 0077 Fax: +1 281 582 4051

FITOK Incorporated
1-4F, Block C, Zone E, Yingtailong Industrial Park, Dalang Street,
Longhua District, Shenzhen, 518109, China
Tel.: +86 755 2803 2500 Fax: +86 755 2803 2619

FITOK Middle East Oil Equipment Trading LLC
208-209, Makateb Tower, Airport Road, P.O.Box 185412, Deira, Dubai, UAE
Tel.: +971 4 2959 853 Fax: +971 4 2959 854

info@fitokgroup.com
www.fitokgroup.com

FK-IC-GF-10-EN-151013

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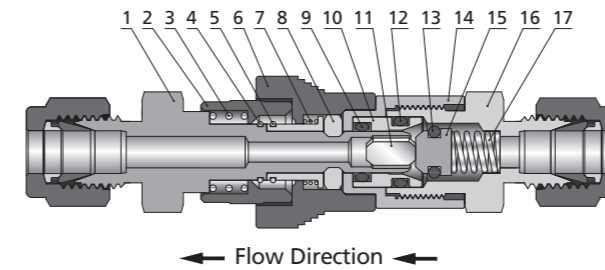
QC Series		01
QF Series		09
QV Series		13
QM Series		16
QTM Series		20

QC Series

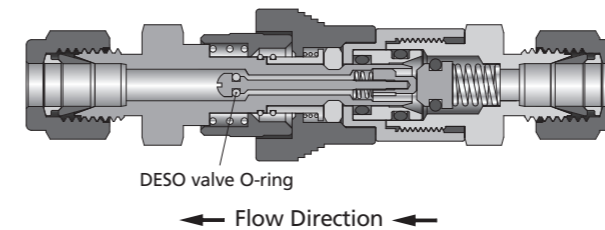
Features

- Working Pressure up to: 3000 psig (207 bar)
- Materials: Stainless steel or brass
- Reliable, leak-tight O-ring seal for vacuum or pressure systems
- Interchangeable with other key manufacturers' products
- Single-end shutoff, double-end shutoff and full-flow available
- Simple push-to-connect coupling for quick and easy operation
- Sturdy locking mechanism with large contact area to ensure reliable stem retention

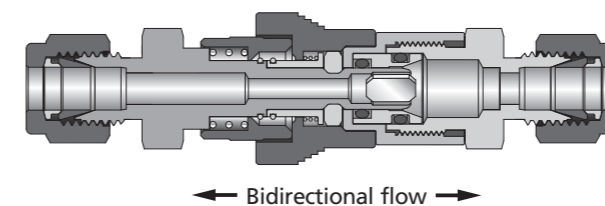
Single-end Shutoff (SESO)



Double-end Shutoff (DESO)



Full-flow Quick-connects



Pressure-Temperature Ratings

Temperature °F (°C)	Stainless Steel with FKM O-ring			Brass with Buna N O-ring		
	QC4	QC6	QC8	QC4	QC6	QC8
	pressure rating, psig (bar)					
-10~70 (-23~20)	3000 (206)	1500 (103)	750 (51.6)	2000 (137)	1000 (69.0)	500 (34.4)
250 (121)	—			250 (17.2)		
400 (204)	250 (17.2)			—		

Standard Materials of Construction

NO.	Component	Body Material	
		Stainless Steel	Brass
		Material Grade/ASTM Standard	
1	Stem	316 SS/A276	Brass C36000/B16
2	DESO stem sleeve	Polyurethane enamelcoated 316 SS/A276	Polyurethane enamelcoated brass C36000/B16
	SESO stem sleeve	Polyurethane enamelcoated 316 SS/A276	Brass C36000/B16
3	Springs	316 SS/A313	
4	Snap rings	316 SS/A313	
5	Snap rings	316 SS/A313	
6	Body sleeve	Powdered metal 300 Series Stainless steel	Brass C36000/B16
7	Springs	316 SS/A313	
8	Locking dogs	Xylan® - coated 316 SS powdered metal	
9	O-rings	Fluorocarbon FKM	Buna N
10	Sliding sleeve	316 SS/A276	Brass C36000/B16
11	SESO stem insert	316 SS/A240	Brass C26000/B36
12	O-rings	Fluorocarbon FKM	Buna N
13	O-rings	Fluorocarbon FKM	Buna N
14	Housing	316 SS/A276	Brass C36000/B16
15	Plug	316 SS/A276	Brass C36000/B16
16	Body	316 SS/A276	Brass C36000/B16
17	Springs	316 SS/A313	

Insertion Depth

Series	Insertion Depth	
	SESO	DESO
	in. (mm)	in. (mm)
QC4	1.09 (27.7)	1.15 (29.2)
QC6	1.18 (30.0)	1.30 (33.0)
QC8	1.48 (37.6)	1.68 (42.7)

In order to measure overall length in the coupled position, the insertion depth should be deducted from any overall stem and body combination length.

Spillage and Air Inclusion

Spillage - the amount of system fluid that escapes when a quick-connect is uncoupled (DESO only)

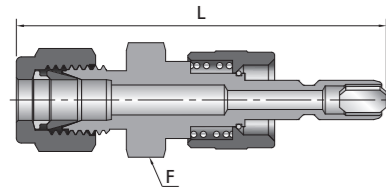
Air Inclusion - the amount of air trapped between the body and stem that enters the system when a quick-connect is coupled (DESO only)

Series	Spillage cm ³	Air Inclusion cm ³
QC4	0.3	0.3
QC6	1.0	1.0
QC8	3.0	3.0

Dimensions

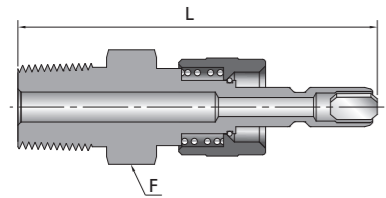
SESO Stems

Tube Fitting



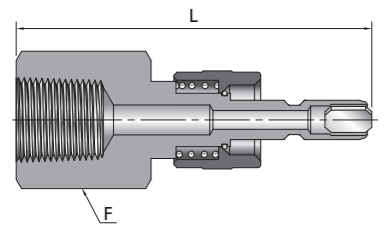
Tube Size	Basic Ordering Number	Flow Coefficient (Cv)	F	L
in.			in.	in. (mm)
1/8	-QC4-FL2-S	0.08	5/8	2.32 (58.9)
1/4	-QC4-FL4-S	0.3	5/8	2.36 (59.9)
3/8	-QC6-FL6-S	1.0	3/4	2.52 (64.0)
1/2	-QC8-FL8-S	2.4	15/16	2.96 (75.2)
mm			mm	mm (in.)
6	-QC4-ML6-S	0.3	16	59.9 (2.36)
10	-QC6-ML10-S	1.0	19	67.3 (2.65)
12	-QC8-ML12-S	2.4	24	75.2 (2.96)

Male NPT



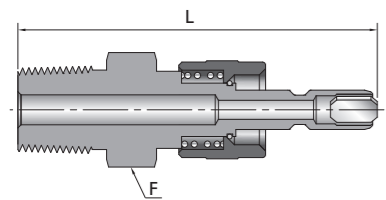
NPT Size	Basic Ordering Number	Flow Coefficient (Cv)	F	L
in.			in.	in. (mm)
1/8	-QC4-NS2-S	0.3	5/8	2.07 (52.6)
1/4	-QC4-NS4-S	0.3	5/8	2.22 (56.4)
1/4	-QC6-NS4-S	0.8	3/4	2.32 (58.9)
3/8	-QC6-NS6-S	0.8	3/4	2.35 (59.7)
1/2	-QC8-NS8-S	2.0	15/16	2.84 (72.1)

Female NPT



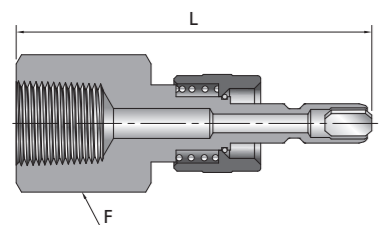
NPT Size	Basic Ordering Number	Flow Coefficient (Cv)	F	L
in.			in.	in. (mm)
1/8	-QC4-FNS2-S	0.3	5/8	2.01 (51.1)
1/4	-QC4-FNS4-S	0.3	3/4	2.26 (57.4)
1/4	-QC6-FNS4-S	0.8	3/4	2.35 (59.7)
3/8	-QC6-FNS6-S	0.8	7/8	2.35 (59.7)
1/2	-QC8-FNS8-S	2.0	1 1/16	2.82 (71.6)

Male BSPT



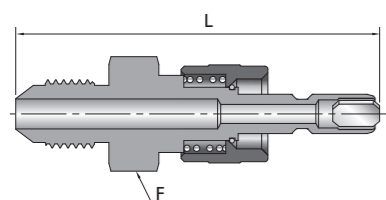
BSPT Size	Basic Ordering Number	Flow Coefficient (Cv)	F	L
in.			in.	in. (mm)
1/8	-QC4-RT2-S	0.3	5/8	2.07 (52.6)
1/4	-QC4-RT4-S	0.3	5/8	2.22 (56.4)
1/4	-QC6-RT4-S	0.8	3/4	2.32 (58.9)
3/8	-QC6-RT6-S	0.8	3/4	2.35 (59.7)
1/2	-QC8-RT8-S	2.0	15/16	2.84 (72.1)

Female BSPT



BSPT Size	Basic Ordering Number	Flow Coefficient (Cv)	F	L
in.			in.	in. (mm)
1/8	-QC4-FRT2-S	0.3	5/8	2.01 (51.1)
1/4	-QC4-FRT4-S	0.3	3/4	2.26 (57.4)
1/4	-QC6-FRT4-S	0.8	3/4	2.35 (59.7)
3/8	-QC6-FRT6-S	0.8	7/8	2.35 (59.7)
1/2	-QC8-FRT8-S	2.0	1 1/16	2.82 (71.6)

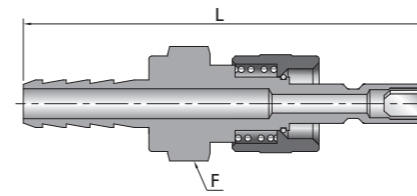
Male JIC(AN) 37° Flare



AN Tube Flare Size	Basic Ordering Number	Flow Coefficient (Cv)	F	L
in.			in.	in. (mm)
1/4	-QC4-AN4-S	0.2	5/8	2.23 (56.6)
3/8	-QC6-AN6-S	1.0	3/4	2.35 (59.7)
1/2	-QC8-AN8-S	2.4	15/16	2.79 (70.9)

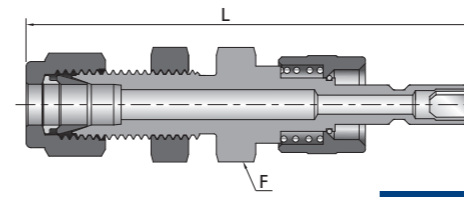
SESO Stems

Hose Connector



Hose Size	Basic Ordering Number	Flow Coefficient (Cv)	F	L
in.			in.	in. (mm)
1/4	-QC4-HC4-S	0.2	5/8	2.47 (62.7)
3/8	-QC6-HC6-S	1.0	3/4	2.66 (67.6)
1/2	-QC8-HC8-S	2.4	15/16	3.07 (78.0)

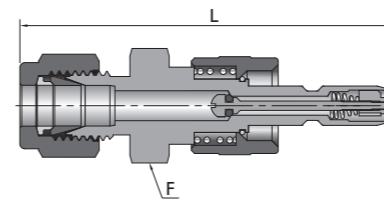
Bulkhead Tube Fitting



Tube Size	Basic Ordering Number	Flow Coefficient (Cv)	F	L	Min. Panel Orifice	Max. Panel Thickness
in.			in.	in. (mm)	in. (mm)	in. (mm)
1/4	-QC4-BFL4-S	0.3	5/8	2.74 (69.6)	0.47 (11.9)	0.25 (6.4)
3/8	-QC6-BFL6-S	1.0	3/4	2.92 (74.2)	0.60 (15.2)	0.27 (6.9)
1/2	-QC8-BFL8-S	2.4	15/16	3.43 (87.1)	0.78 (19.8)	0.26 (6.6)
mm			mm	mm (in.)	mm (in.)	mm (in.)
6	-QC4-BML6-S	0.3	16	69.6 (2.74)	11.7 (0.46)	6.4 (0.25)
10	-QC6-BML10-S	1.0	22	77.7 (3.06)	16.8 (0.66)	6.9 (0.27)
12	-QC8-BML12-S	2.4	24	87.1 (3.43)	19.6 (0.77)	6.6 (0.26)

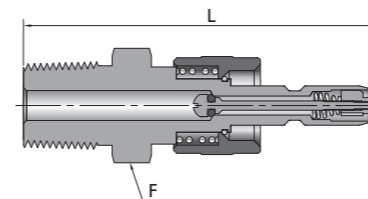
DESO Stems

Tube Fitting



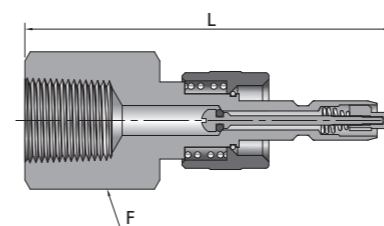
Tube Size	Basic Ordering Number	Flow Coefficient (Cv)	F	L
in.			in.	in. (mm)
1/8	-QC4-FL2-D	0.08	5/8	2.77 (70.4)
1/4	-QC4-FL4-D	0.2	5/8	2.42 (61.5)
3/8	-QC6-FL6-D	0.5	3/4	2.64 (67.1)
1/2	-QC8-FL8-D	1.5	15/16	3.16 (80.3)
mm			mm	mm (in.)
6	-QC4-ML6-D	0.2	16	61.5 (2.42)
10	-QC6-ML10-D	0.5	19	70.4 (2.77)
12	-QC8-ML12-D	1.5	24	80.3 (3.16)

Male NPT



NPT Size	Basic Ordering Number	Flow Coefficient (Cv)	F	L
in.			in.	in. (mm)
1/8	-QC4-NS2-D	0.2	5/8	2.13 (54.1)
1/4	-QC4-NS4-D	0.2	5/8	2.28 (57.8)
1/4	-QC6-NS4-D	0.5	3/4	2.44 (61.9)
3/8	-QC6-NS6-D	0.5	3/4	2.47 (62.7)
1/2	-QC8-NS8-D	1.3	15/16	3.04 (77.2)

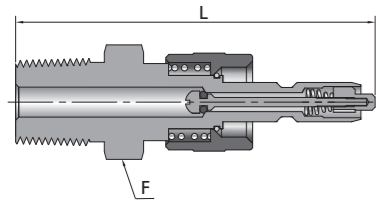
Female NPT



NPT Size	Basic Ordering Number	Flow Coefficient (Cv)	F	L
in.			in.	in. (mm)
1/8	-QC4-FNS2-D	0.2	5/8	2.07 (52.6)
1/4	-QC4-FNS4-D	0.2	3/4	2.32 (58.9)
1/4	-QC6-FNS4-D	0.5	3/4	2.47 (62.7)
3/8	-QC6-FNS6-D	0.5	7/8	2.47 (62.7)
1/2	-QC8-FNS8-D	1.3	1 1/16	3.04 (77.2)

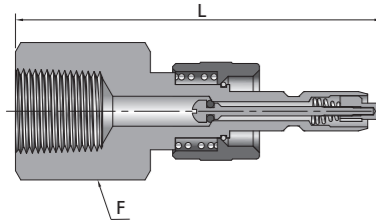
DESO Stems

Male BSPT



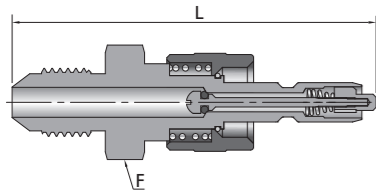
BSPT Size	Basic Ordering Number	Flow Coefficient (Cv)	F	L
			in.	in. (mm)
1/8	-QC4-RT2-D	0.2	5/8	2.13 (54.1)
1/4	-QC4-RT4-D	0.2	5/8	2.28 (57.8)
1/4	-QC6-RT4-D	0.5	3/4	2.44 (61.9)
3/8	-QC6-RT6-D	0.5	3/4	2.47 (62.7)
1/2	-QC8-RT8-D	1.3	15/16	3.04 (77.2)

Female BSPT



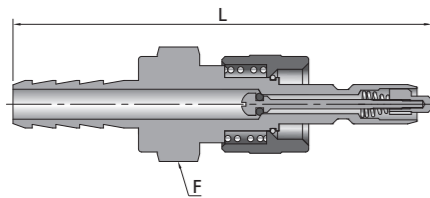
BSPT Size	Basic Ordering Number	Flow Coefficient (Cv)	F	L
			in.	in. (mm)
1/8	-QC4-FRT2-D	0.2	5/8	2.07 (52.6)
1/4	-QC4-FRT4-D	0.2	3/4	2.32 (58.9)
1/4	-QC6-FRT4-D	0.5	3/4	2.47 (62.7)
3/8	-QC6-FRT6-D	0.5	7/8	2.47 (62.7)
1/2	-QC8-FRT8-D	1.3	1 1/16	3.04 (77.2)

Male JIC(AN) 37° Flare



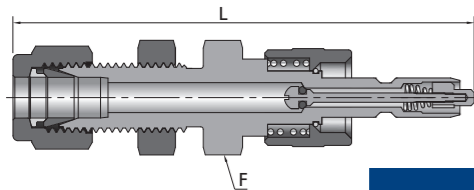
AN Tube Flare Size in.	Basic Ordering Number	Flow Coefficient (Cv)	F	L
			in.	in. (mm)
1/4	-QC4-AN4-D	0.2	5/8	2.29 (58.2)
3/8	-QC6-AN6-D	0.5	3/4	2.47 (62.7)
1/2	-QC8-AN8-D	1.5	15/16	2.99 (75.9)

Hose Connector



Hose Size in.	Basic Ordering Number	Flow Coefficient (Cv)	F	L
			in.	in. (mm)
1/4	-QC4-HC4-D	0.2	5/8	2.53 (64.3)
3/8	-QC6-HC6-D	0.5	3/4	2.78 (70.6)
1/2	-QC8-HC8-D	1.5	15/16	3.27 (83.1)

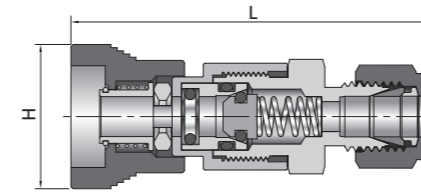
Bulkhead Tube Fitting



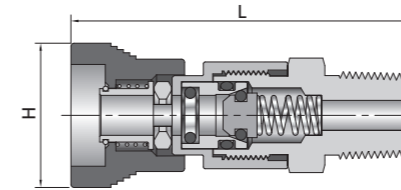
Tube Size in.	Basic Ordering Number	Flow Coefficient (Cv)	F	L	Min. Panel Orifice in. (mm)	Max. Panel Thickness in. (mm)
			in.	in. (mm)		
1/4	-QC4-BFL4-D	0.2	5/8	2.80 (71.1)	0.47 (11.9)	0.25 (6.4)
3/8	-QC6-BFL6-D	0.5	3/4	3.07 (78.0)	0.60 (15.2)	0.27 (6.9)
1/2	-QC8-BFL8-D	1.5	15/16	3.63 (92.2)	0.78 (19.8)	0.26 (6.6)
mm			mm	mm (in.)	mm (in.)	mm (in.)
6	-QC4-BML6-D	0.2	16	71.1 (2.80)	11.7 (0.46)	6.4 (0.25)
10	-QC6-BML10-D	0.5	22	78.7 (3.10)	16.8 (0.66)	6.9 (0.27)
12	-QC8-BML12-D	1.5	24	92.2 (3.63)	19.6 (0.77)	6.6 (0.26)

Bodies

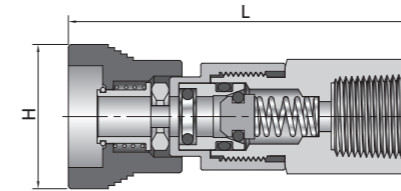
Tube Fitting



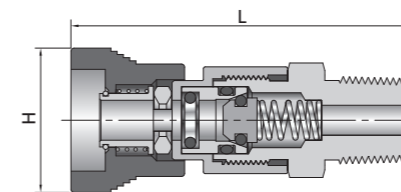
Male NPT



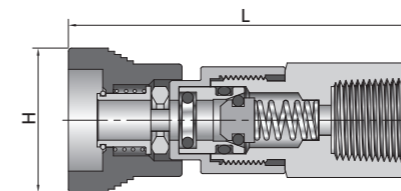
Female NPT



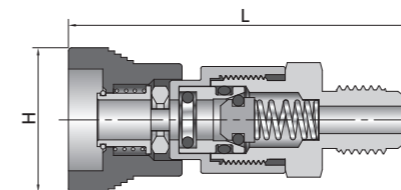
Male BSPT



Female BSPT



Male JIC (AN) 37° Flare



Tube Size in.	Basic Ordering Number	H	L
		in. (mm)	in. (mm)
1/8	-QC4-FL2-B	0.91 (23.1)	2.26 (57.4)
1/4	-QC4-FL4-B	0.91 (23.1)	2.30 (58.4)
3/8	-QC6-FL6-B	1.03 (26.2)	2.58 (65.5)
1/2	-QC8-FL8-B	1.21 (30.7)	3.09 (78.5)
mm		mm (in.)	mm (in.)
6	-QC4-ML6-B	23.1 (0.91)	58.4 (2.30)
10	-QC6-ML10-B	26.2 (1.03)	68.1 (2.68)
12	-QC8-ML12-B	30.7 (1.21)	78.5 (3.09)

NPT Size	Basic Ordering Number	H	L
		in. (mm)	in. (mm)
1/8	-QC4-NS2-B	0.91 (23.1)	2.01 (51.1)
1/4	-QC4-NS4-B	0.91 (23.1)	2.16 (54.9)
1/4	-QC6-NS4-B	1.03 (26.2)	2.38 (60.5)
3/8	-QC6-NS6-B	1.03 (26.2)	2.38 (60.5)
1/2	-QC8-NS8-B	1.21 (30.7)	2.97 (75.4)

NPT Size	Basic Ordering Number	H	L
		in. (mm)	in. (mm)
1/8	-QC4-FNS2-B	0.91 (23.1)	2.16 (54.9)
1/4	-QC4-FNS4-B	0.91 (23.1)	2.42 (61.5)
1/4	-QC6-FNS4-B	1.03 (26.2)	2.54 (64.5)
3/8	-QC6-FNS6-B	1.03 (26.2)	2.57 (65.3)
1/2	-QC8-FNS8-B	1.21 (30.7)	3.22 (81.8)

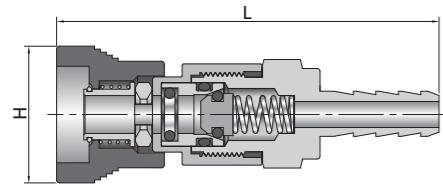
BSPT Size	Basic Ordering Number	H	L
		in. (mm)	in. (mm)
1/8	-QC4-RT2-B	0.91 (23.1)	2.01 (51.1)
1/4	-QC4-RT4-B	0.91 (23.1)	2.16 (54.9)
1/4	-QC6-RT4-B	1.03 (26.2)	2.38 (60.5)
3/8	-QC6-RT6-B	1.03 (26.2)	2.38 (60.5)
1/2	-QC8-RT8-B	1.21 (30.7)	2.97 (75.4)

BSPT Size	Basic Ordering Number	H	L
		in. (mm)	in. (mm)
1/8	-QC4-FRT2-B	0.91 (23.1)	2.16 (54.9)
1/4	-QC4-FRT4-B	0.91 (23.1)	2.42 (61.5)
1/4	-QC6-FRT4-B	1.03 (26.2)	2.54 (64.5)
3/8	-QC6-FRT6-B	1.03 (26.2)	2.57 (65.3)
1/2	-QC8-FRT8-B	1.21 (30.7)	3.22 (81.8)

AN Tube Flare Size in.	Basic Ordering Number	H	L
		in. (mm)	in. (mm)
1/4	-QC4-AN4-B	0.91 (23.1)	2.17 (55.1)
3/8	-QC6-AN6-B	1.03 (26.2)	2.41 (61.2)
1/2	-QC8-AN8-B	1.21 (30.7)	2.92 (74.2)

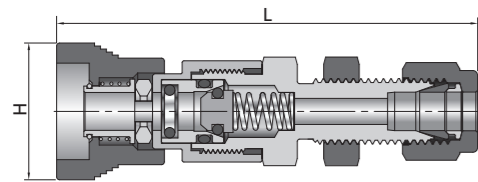
Bodies

Hose Connector



Hose Size	Basic Ordering Number	H	L
in.		in. (mm)	in. (mm)
1/4	-QC4-HC4-B	0.91 (23.1)	2.41 (61.2)
3/8	-QC6-HC6-B	1.03 (26.2)	2.72 (69.1)
1/2	-QC8-HC8-B	1.21 (30.7)	3.20 (81.3)

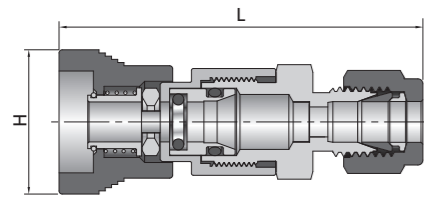
Bulkhead Tube Fitting



Tube Size	Basic Ordering Number	H	L	Min. Panel Orifice	Max. Panel Thickness
in.		in. (mm)	in. (mm)	in. (mm)	in. (mm)
1/4	-QC4-BFL4-B	0.91 (23.1)	2.67 (67.8)	0.47 (11.9)	0.25 (6.4)
3/8	-QC6-BFL6-B	1.03 (26.2)	2.98 (75.7)	0.60 (15.2)	0.27 (6.9)
1/2	-QC8-BFL8-B	1.21 (30.7)	3.56 (90.4)	0.78 (19.8)	0.26 (6.6)
mm		mm (in.)	mm (in.)	mm (in.)	mm (in.)
6	-QC4-BML6-B	23.1 (0.91)	67.8 (2.67)	11.7 (0.46)	6.4 (0.25)
10	-QC6-BML10-B	26.2 (1.03)	75.9 (2.99)	16.8 (0.66)	6.9 (0.27)
12	-QC8-BML12-B	30.7 (1.21)	90.4 (3.56)	19.6 (0.77)	6.6 (0.26)

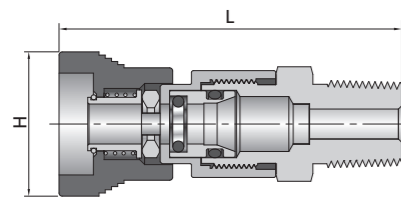
Full-flow Bodies

Tube Fitting



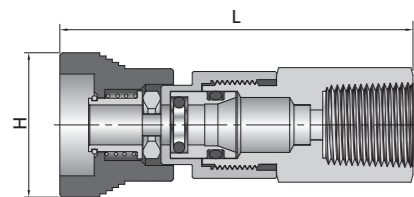
Tube Size	Basic Ordering Number	H	L
in.		in. (mm)	in. (mm)
1/8	-QC4-FL2-F	0.91 (23.1)	2.26 (57.4)
1/4	-QC4-FL4-F	0.91 (23.1)	2.30 (58.4)
3/8	-QC6-FL6-F	1.03 (26.2)	2.58 (65.5)
1/2	-QC8-FL8-F	1.21 (30.7)	3.09 (78.5)
mm		mm (in.)	mm (in.)
6	-QC4-ML6-F	23.1 (0.91)	58.4 (2.30)
10	-QC6-ML10-F	26.2 (1.03)	68.1 (2.68)
12	-QC8-ML12-F	30.7 (1.21)	78.5 (3.09)

Male NPT



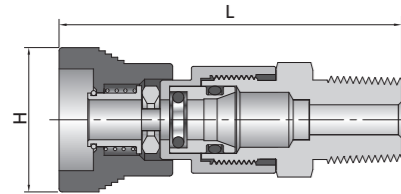
NPT Size	Basic Ordering Number	H	L
		in. (mm)	in. (mm)
1/8	-QC4-NS2-F	0.91 (23.1)	2.01 (51.1)
1/4	-QC4-NS4-F	0.91 (23.1)	2.16 (54.9)
1/4	-QC6-NS4-F	1.03 (26.2)	2.38 (60.5)
3/8	-QC6-NS6-F	1.03 (26.2)	2.38 (60.5)
1/2	-QC8-NS8-F	1.21 (30.7)	2.97 (75.4)

Female NPT



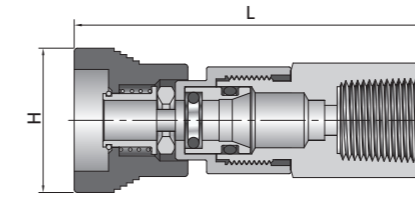
NPT Size	Basic Ordering Number	H	L
		in. (mm)	in. (mm)
1/8	-QC4-FNS2-F	0.91 (23.1)	2.16 (54.9)
1/4	-QC4-FNS4-F	0.91 (23.1)	2.42 (61.5)
1/4	-QC6-FNS4-F	1.03 (26.2)	2.54 (65.4)
3/8	-QC6-FNS6-F	1.03 (26.2)	2.57 (65.3)
1/2	-QC8-FNS8-F	1.21 (30.7)	3.22 (81.8)

Male BSPT

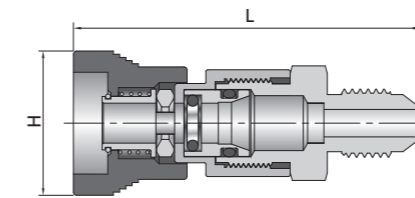


BSPT Size	Basic Ordering Number	H	L
		in. (mm)	in. (mm)
1/8	-QC4-RT2-F	0.91 (23.1)	2.01 (51.1)
1/4	-QC4-RT4-F	0.91 (23.1)	2.16 (54.9)
1/4	-QC6-RT4-F	1.03 (26.2)	2.38 (60.5)
3/8	-QC6-RT6-F	1.03 (26.2)	2.38 (60.5)
1/2	-QC8-RT8-F	1.21 (30.7)	2.97 (75.4)

Female BSPT

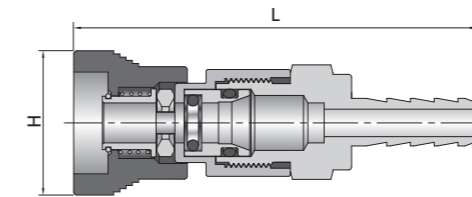


Male JIC (AN) 37° Flare



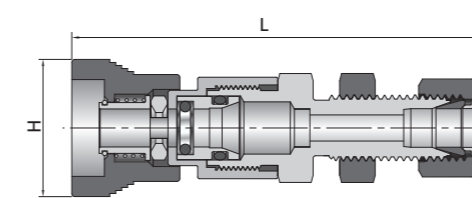
BSPT Size	Basic Ordering Number	H	L
		in. (mm)	in. (mm)
1/8	-QC4-FRT2-F	0.91 (23.1)	2.16 (54.9)
1/4	-QC4-FRT4-F	0.91 (23.1)	2.42 (61.5)
1/4	-QC6-FRT4-F	1.03 (26.2)	2.54 (64.5)
3/8	-QC6-FRT6-F	1.03 (26.2)	2.57 (65.3)
1/2	-QC8-FRT8-F	1.21 (30.7)	3.22 (81.8)

Hose Connector



Hose Size	Basic Ordering Number	H	L
in.		in. (mm)	in. (mm)
1/4	-QC4-HC4-F	0.91 (23.1)	2.41 (61.2)
3/8	-QC6-HC6-F	1.03 (26.2)	2.72 (69.1)
1/2	-QC8-HC8-F	1.21 (30.7)	3.20 (81.3)

Bulkhead Tube Fitting



Tube Size	Basic Ordering Number	H	L	Min. Panel Orifice	Max. Panel Thickness
in.		in. (mm)	in. (mm)	in. (mm)	in. (mm)
1/4	-QC4-BFL4-F	0.91 (23.1)	2.67 (67.8)	0.47 (11.9)	0.25 (6.4)
3/8	-QC6-BFL6-F	1.03 (26.2)	2.98 (75.7)	0.60 (15.2)	0.27 (6.9)
1/2	-QC8-BFL8-F	1.21 (30.7)	3.56 (90.4)	0.78 (19.8)	0.26 (6.6)
mm		mm (in.)	mm (in.)	mm (in.)	mm (in.)
6	-QC4-BML6-F	23.1 (0.91)	67.8 (2.67)	11.7 (0.46)	6.4 (0.25)
10	-QC6-BML10-F	26.2 (1.03)	75.9 (2.99)	16.8 (0.66)	6.9 (0.27)
12	-QC8-BML12-F	30.7 (1.21)	90.4 (3.56)	19.6 (0.77)	6.6 (0.26)

Options, QC Series

Keyed QC Series

FITOK keyed quick-connects provide a reliable mechanical lockout system to prevent accidental intermixing of different lines in multifluid or multipressure systems.

QC Series Key Numbers and Sleeve Outside Diameters

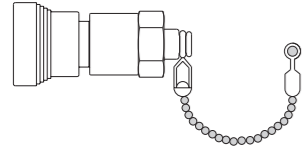
Key Number and Color	QC4		QC6		QC8	
	Body Sleeve	Stem Sleeve	Body Sleeve	Stem Sleeve	Body Sleeve	Stem Sleeve
	in. (mm)	in. (mm)	in. (mm)	in. (mm)	in. (mm)	in. (mm)
K1 black	0.96 (24.4)	0.82 (20.8)	1.13 (28.7)	0.99 (25.1)	1.26 (32.0)	1.10 (27.9)
K2 orange	0.99 (25.1)	0.85 (21.6)	1.16 (29.5)	1.02 (25.9)	1.29 (32.8)	1.14 (29.0)
K3 green	1.02 (25.9)	0.88 (22.4)	1.19 (30.2)	1.05 (26.7)	1.32 (33.5)	1.17 (29.7)
K4 yellow	1.05 (26.7)	0.91 (23.1)	1.22 (31.0)	1.08 (27.4)	1.35 (34.3)	1.20 (30.5)
K5 blue	1.08 (27.4)	0.94 (23.9)	1.24 (31.5)	1.11 (28.2)	1.38 (35.1)	1.23 (31.2)
K6 white	1.11 (28.2)	0.97 (24.6)	1.28 (32.5)	1.14 (29.0)	1.41 (35.8)	1.26 (32.0)
K7 purple	1.14 (29.0)	1.00 (25.4)	1.31 (33.3)	1.17 (29.7)	1.44 (36.6)	1.29 (32.8)
K8 brown	1.17 (29.7)	1.03 (26.2)	1.34 (34.0)	1.20 (30.5)	1.47 (37.3)	1.32 (33.5)

Options, QC Series

Stem and Body Protector

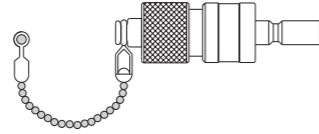
Stem and body protector can prevent the stem and the body from being damaged and polluted in the process of disconnection.

Stem Protector



Series	Basic Ordering Number
QC4	-QC4-SP
QC6	-QC6-SP
QC8	-QC8-SP

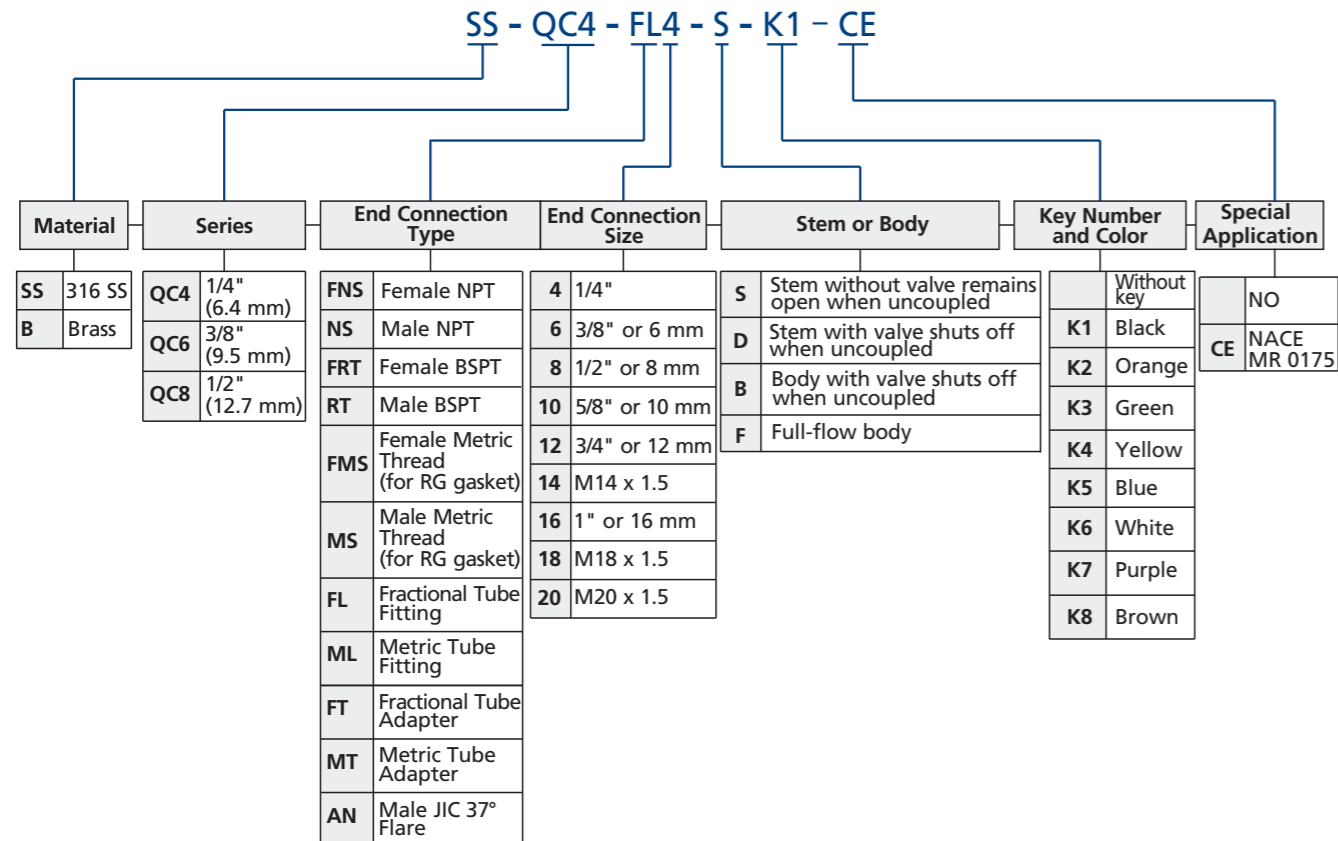
Body Protector



Series	Basic Ordering Number
QC4	-QC4-BP
QC6	-QC6-BP
QC8	-QC8-BP

- Part number description of the protector: Material (SS for stainless steel or B for brass) + Basic Ordering Number.
Example: **SS-QC4-BP**
- Part number description of the keyed protector: Material (SS for stainless steel or B for brass) + Basic Ordering Number+Key Number from the table below.
Example: **SS-QC4-BP-K2**
- The protector is not a pressure sustaining device. If you want to order it, please contact FITOK group or authorized agent.

Part Number Description

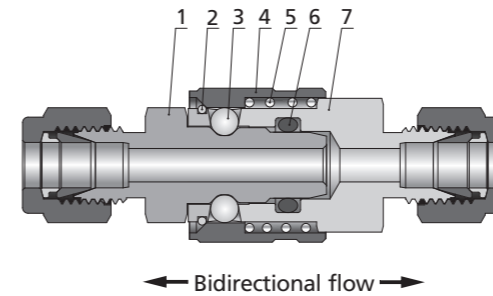


Note: 1. Most configurations are available but not everyone.
2. Dimensions are for reference only and are subject to change.

QF Series

Features

- Full flow
- Quick, easy operation
- Working Pressure up to: 6000 psig (414 bar)
- Materials: stainless steel or brass
- Smooth, open bores without valving on either end to minimize pressure drop and allow easy cleaning



Standard Materials of Construction

NO.	Component	Body Material	
		Stainless Steel	Brass
Material Grade/ASTM Standard			
1	Stem	316 SS/A276	Brass C36000/B16
2	Snap rings	316 SS/A313	
3	Locking balls	440C/A276	
4	Sliding sleeve	316 SS/A240	Brass C26000/B36
5	Springs	316 SS/A313	
6	O-rings	Fluorocarbon FKM	Buna N
7	Body	316 SS/A276	Brass C36000/B16

Pressure-Temperature Ratings

Temperature °F (°C)	Stainless Steel with FKM O-ring				Brass with Buna N O-ring			
	QF4	QF8	QF12	QF16	QF4	QF8	QF12	QF16
-10~70 (-23~20)	6000 (414)	4000 (275)	4000 (275)	3000 (207)	2000 (137)	—		
250 (121)	—				100 (6.9)			
400 (204)	100 (6.9)				—			

In order to measure overall length in the coupled position, insertion depth should be deducted from any overall stem and body combination length.

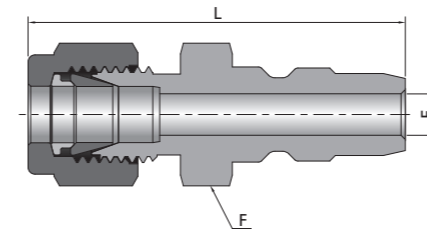
Insert Depth

Series	Insert Depth in. (mm)
QF4	0.78 (19.8)
QF8	0.81 (20.6)
QF12	0.90 (22.9)
QF16	0.94 (23.9)

Dimensions

Stems

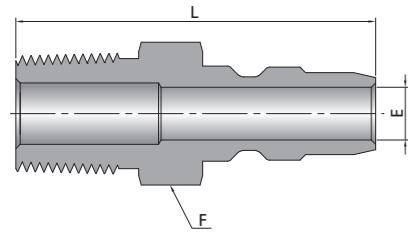
Tube Fitting



Tube Size in.	Basic Ordering Number	Flow Coefficient (Cv)	E	F	L
			in. (mm)	in.	in. (mm)
1/4	-QF4-FL4-S	2.2	0.19 (4.8)	9/16	1.77 (45.0)
3/8	-QF4-FL6-S	2.8	0.24 (6.1)	11/16	1.77 (45.0)
3/8	-QF8-FL6-S	2.8	0.28 (7.1)	7/8	1.88 (47.8)
1/2	-QF8-FL8-S	13.0	0.41 (10.4)	7/8	1.99 (50.5)
3/4	-QF12-FL12-S	26.0	0.62 (15.7)	1 1/16	2.15 (54.6)
1	-QF16-FL16-S	45.0	0.88 (22.4)	1 3/8	2.45 (62.2)
mm			(mm) in.	mm	(mm) in.
6	-QF4-ML6-S	2.2	4.8 (0.19)	15	45.0 (1.77)
10	-QF8-ML10-S	2.8	7.1 (0.28)	22	48.5 (1.91)
12	-QF8-ML12-S	13.0	9.5 (0.37)	22	51.3 (2.02)
20	-QF12-ML20-S	26.0	15.7 (0.62)	30	54.6 (2.15)
25	-QF16-ML25-S	45.0	22.4 (0.88)	36	63.5 (2.50)

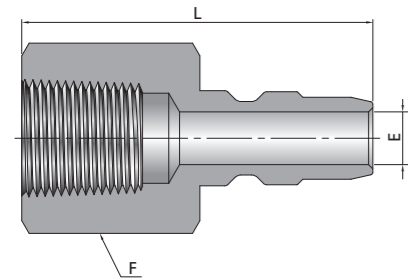
Stems

Male NPT



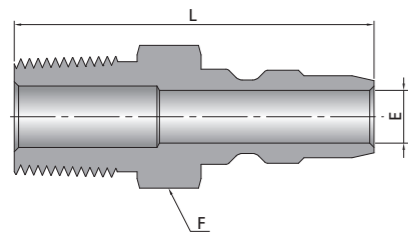
NPT Size	Basic Ordering Number	Flow Coefficient (Cv)	E	F	L
			in. (mm)	in.	in. (mm)
1/4	-QF4-NS4-S	1.7	0.24 (6.1)	9/16	1.59 (40.4)
3/8	-QF4-NS6-S	1.7	0.24 (6.1)	11/16	1.59 (40.4)
3/8	-QF8-NS6-S	7.1	0.41 (10.4)	7/8	1.65 (41.9)
1/2	-QF8-NS8-S	11.5	0.50 (12.7)	7/8	1.84 (46.7)
3/4	-QF12-NS12-S	23.6	0.72 (18.3)	1 1/16	2.03 (51.6)
1	-QF16-NS16-S	39.0	0.88 (22.4)	1 3/8	2.35 (59.7)

Female NPT



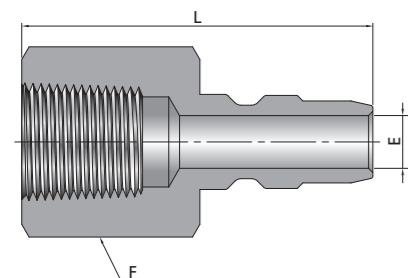
NPT Size	Basic Ordering Number	Flow Coefficient (Cv)	E	F	L
			in. (mm)	in.	in. (mm)
1/4	-QF4-FNS4-S	1.7	0.24 (6.1)	3/4	1.60 (40.6)
3/8	-QF4-FNS6-S	1.7	0.24 (6.1)	7/8	1.67 (42.4)
3/8	-QF8-FNS6-S	7.1	0.41 (10.4)	1 1/16	1.59 (40.4)
1/2	-QF8-FNS8-S	11.5	0.50 (12.7)	1 1/16	1.82 (46.2)
3/4	-QF12-FNS12-S	23.6	0.72 (18.3)	1 5/16	2.08 (52.8)
1	-QF16-FNS16-S	39.0	0.88 (22.4)	1 5/8	2.49 (63.2)

Male BSPT



BSPT Size	Basic Ordering Number	Flow Coefficient (Cv)	E	F	L
			in. (mm)	in.	in. (mm)
1/4	-QF4-RT4-S	1.7	0.24 (6.1)	9/16	1.59 (40.4)
3/8	-QF4-RT6-S	1.7	0.24 (6.1)	11/16	1.59 (40.4)
3/8	-QF8-RT6-S	7.1	0.41 (10.4)	7/8	1.65 (41.9)
1/2	-QF8-RT8-S	11.5	0.50 (12.7)	7/8	1.84 (46.7)
3/4	-QF12-RT12-S	23.6	0.72 (18.3)	1 1/16	2.03 (51.6)
1	-QF16-RT16-S	39.0	0.88 (22.4)	1 3/8	2.35 (59.7)

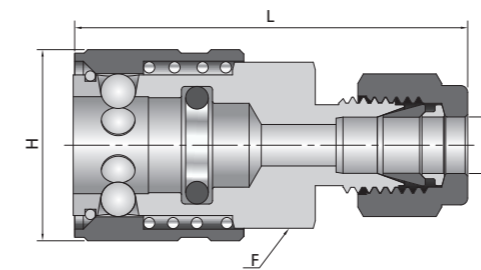
Female BSPT



BSPT Size	Basic Ordering Number	Flow Coefficient (Cv)	E	F	L
			in. (mm)	in.	in. (mm)
1/4	-QF4-FRT4-S	1.7	0.24 (6.1)	3/4	1.60 (40.6)
3/8	-QF4-FRT6-S	1.7	0.24 (6.1)	7/8	1.67 (42.4)
3/8	-QF8-FRT6-S	7.1	0.41 (10.4)	1 1/16	1.59 (40.4)
1/2	-QF8-FRT8-S	11.5	0.50 (12.7)	1 1/16	1.82 (46.2)
3/4	-QF12-FRT12-S	23.6	0.72 (18.3)	1 5/16	2.08 (52.8)
1	-QF16-FRT16-S	39.0	0.88 (22.4)	1 5/8	2.49 (63.2)

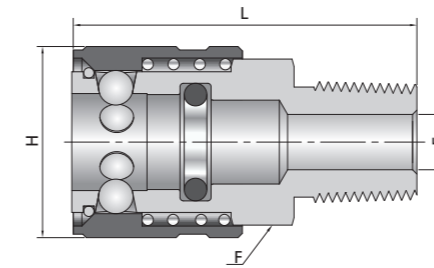
Bodies

Tube Fitting



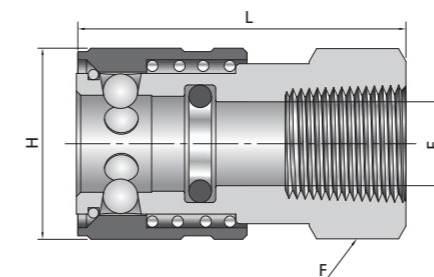
Tube Size	Basic Ordering Number	E	F	H	L
		in. (mm)	in.	in. (mm)	in. (mm)
1/4	-QF4-FL4-B	0.19 (4.8)	11/16	0.87 (22.1)	1.80 (45.7)
3/8	-QF4-FL6-B	0.28 (7.1)	11/16	0.87 (22.1)	1.81 (46.0)
3/8	-QF8-FL6-B	0.28 (7.1)	1 1/16	1.30 (33.0)	2.17 (55.1)
1/2	-QF8-FL8-B	0.47 (11.9)	1 1/16	1.30 (33.0)	2.23 (56.6)
3/4	-QF12-FL12-B	0.62 (15.7)	1 1/2	1.66 (42.2)	2.45 (62.2)
1	-QF16-FL16-B	0.88 (22.4)	1 11/16	1.88 (47.8)	2.75 (69.9)
mm		(mm) in.	mm	(mm) in.	(mm) in.
6	-QF4-ML6-B	4.8 (0.19)	18	22.1 (0.87)	45.7 (1.80)
10	-QF8-ML10-B	7.1 (0.28)	27	33.0 (1.30)	55.9 (2.20)
12	-QF8-ML12-B	10.4 (0.41)	27	33.0 (1.30)	57.4 (2.26)
20	-QF12-ML20-B	15.9 (0.63)	38	42.2 (1.66)	63.5 (2.50)
25	-QF16-ML25-B	21.8 (0.86)	46	47.8 (1.88)	70.0 (2.76)

Male NPT



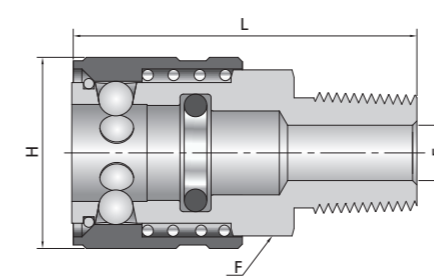
NPT Size	Basic Ordering Number	E	F	H	L
		in. (mm)	in.	in. (mm)	in. (mm)
1/4	-QF4-NS4-B	0.25 (6.4)	11/16	0.87 (22.1)	1.57 (39.9)
3/8	-QF4-NS6-B	0.37 (9.4)	11/16	0.87 (22.1)	1.57 (39.9)
3/8	-QF8-NS6-B	0.41 (10.4)	1 1/16	1.30 (33.0)	1.83 (46.5)
1/2	-QF8-NS8-B	0.50 (12.7)	1 1/16	1.30 (33.0)	2.08 (52.8)
3/4	-QF12-NS12-B	0.72 (18.3)	1 1/2	1.66 (42.2)	2.33 (59.2)
1	-QF16-NS16-B	0.88 (22.4)	1 11/16	1.88 (47.8)	2.65 (67.3)

Female NPT



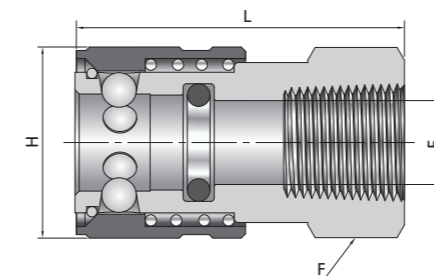
NPT Size	Basic Ordering Number	E	F	H	L
		in. (mm)	in.	in. (mm)	in. (mm)
1/4	-QF4-FNS4-B	0.38 (9.7)	3/4	0.87 (22.1)	1.50 (38.1)
3/8	-QF4-FNS6-B	0.38 (9.7)	7/8	0.87 (22.1)	1.63 (41.4)
3/8	-QF8-FNS6-B	0.59 (15.0)	1 1/16	1.30 (33.0)	1.73 (43.9)
1/2	-QF8-FNS8-B	0.63 (16.0)	1 1/16	1.30 (33.0)	1.73 (43.9)
3/4	-QF12-FNS12-B	0.88 (22.4)	1 1/2	1.66 (42.2)	1.89 (48.0)
1	-QF16-FNS16-B	1.06 (26.9)	1 11/16	1.88 (47.8)	2.12 (53.8)

Male BSPT



BSPT Size	Basic Ordering Number	E	F	H	L
		in. (mm)	in.	in. (mm)	in. (mm)
1/4	-QF4-RT4-B	0.25 (6.4)	11/16	0.87 (22.1)	1.57 (39.9)
3/8	-QF4-RT6-B	0.37 (9.4)	11/16	0.87 (22.1)	1.57 (39.9)
3/8	-QF8-RT6-B	0.41 (10.4)	1 1/16	1.30 (33.0)	1.83 (46.5)
1/2	-QF8-RT8-B	0.50 (12.7)	1 1/16	1.30 (33.0)	2.08 (52.8)
3/4	-QF12-RT12-B	0.72 (18.3)	1 1/2	1.66 (42.2)	2.33 (59.2)
1	-QF16-RT16-B	0.88 (22.4)	1 11/16	1.88 (47.8)	2.65 (67.3)

Female BSPT



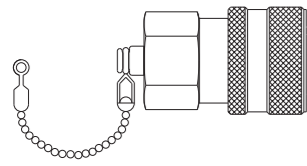
BSPT Size	Basic Ordering Number	E	F	H	L
		in. (mm)	in.	in. (mm)	in. (mm)
1/4	-QF4-FRT4-B	0.38 (9.7)	3/4	0.87 (22.1)	1.50 (38.1)
3/8	-QF4-FRT6-B	0.38 (9.7)	7/8	0.87 (22.1)	1.63 (41.4)
3/8	-QF8-FRT6-B	0.59 (15.0)	1 1/16	1.30 (33.0)	1.73 (43.9)
1/2	-QF8-FRT8-B	0.63 (16.0)	1 1/16	1.30 (33.0)	1.73 (43.9)
3/4	-QF12-FRT12-B	0.88 (22.4)	1 1/2	1.66 (42.2)	1.89 (48.0)
1	-QF16-FRT16-B	1.06 (26.9)	1 11/16	1.88 (47.8)	2.12 (53.8)

Options, QF Series

Stem and Body Protector

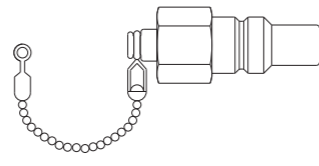
Stem and body protector can prevent the stem and the body from being damaged and polluted in the process of disconnection.

Stem Protector



Series	Basic Ordering Number
QF4	-QF4-SP
QF8	-QF8-SP
QF12	-QF12-SP
QF16	-QF16-SP

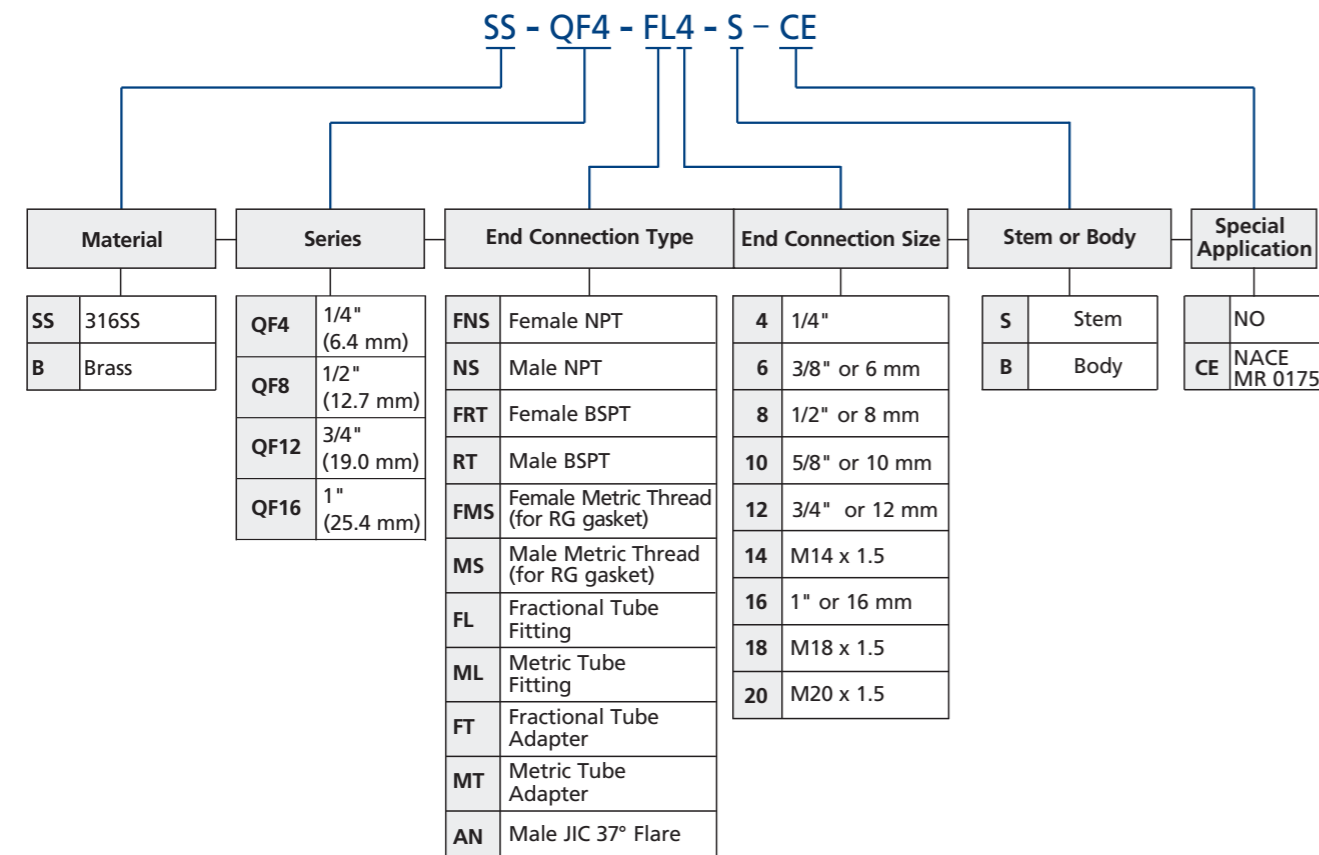
Body Protector



Series	Basic Ordering Number
QF4	-QF4-BP
QF8	-QF8-BP
QF12	-QF12-BP
QF16	-QF16-BP

- Part number description of the protector: Material (SS for stainless steel or B for brass) + Basic Ordering Number.
Example: **SS-QF4-BP**
- The protector is not a pressure sustaining device. If you want to order it, please contact FITOK group or authorized agent.

Part Number Description

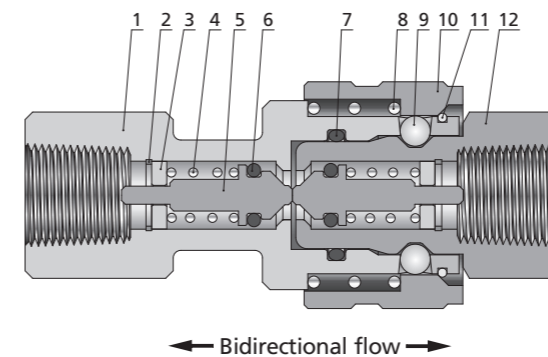


Note: 1. Most configurations are available but not everyone.
2. Dimensions are for reference only and are subject to change.

QV Series

Features

- Working Pressure up to: 2000 psig (137 bar)
- Large flow area to ensure high flow capacity
- Positive valve stop to maintain valve alignment and to provide metal to metal valve stop to ensure that the valves fully open
- Hardened nipples and sleeves as well as solid barstock construction to make for a quality coupling with maximum resistance to damage from hydraulic and mechanical shock
- Designed to withstand high pressure and provide reliable sealing
- Durable ball-locking mechanism to assure reliable connection



Standard Materials of Construction

NO.	Component	Body Material	
		Stainless Steel	Brass
		Material Grade/ASTM Standard	
1	Body	316 SS/A276	Brass C36000/B16
2	Locating ring	304 SS	
3	Locating block	316 SS/A276	Brass C36000/B16
4	Springs	316 SS/A313	
5	Valve	316 SS/A276	Brass C36000/B16
6	O-rings	Fluorocarbon FKM	Buna N
7			
8	Springs	316 SS/A313	
9	Locking balls	440C/A276	
10	Body sleeve	316 SS/A276	Brass C36000/B16
11	Snap rings	316 SS/A313	
12	Stem	316 SS/A276	Brass C36000/B16

Pressure-Temperature Ratings

Body Material	Stainless Steel						Brass						
	Series	QV2	QV4	QV6	QV8	QV12	QV16	QV2	QV4	QV6	QV8	QV12	QV16
O-ring	FKM						Buna N						
Temperature Range	-10°F to 400°F (-23°C to 204°C)						-10°F to 250°F (-23°C to 121°C)						
Working Pressure psig (bar)	2000 (137)		1500 (103)		1000 (69.0)			1000 (69.0)					

In order to measure overall length in the coupled position, the insertion depth should be deducted from any overall stem and body combination length.

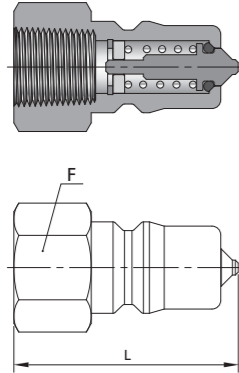
Insert Depth

Series	Insert Depth in. (mm)
QV2	0.71 (18.0)
QV4	0.81 (20.6)
QV6	0.89 (22.5)
QV8	1.01 (25.6)
QV12	1.26 (32.1)
QV16	1.42 (36.1)

Dimensions

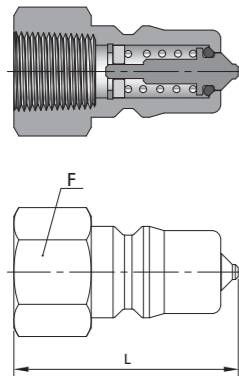
Stems

Female NPT



Female NPT				
NPT Size	Basic Ordering Number	Flow Coefficient (Cv)	A	F
			in. (mm)	in.
1/8	-QV2-FNS2-D	0.2	1.16 (29.5)	9/16
1/4	-QV4-FNS4-D	0.6	1.39 (35.3)	3/4
3/8	-QV6-FNS6-D	1.2	1.50 (38.1)	7/8
1/2	-QV8-FNS8-D	2.6	1.75 (44.5)	1 1/8
3/4	-QV12-FNS12-D	3.3	2.16 (54.9)	1 3/8
1	-QV16-FNS16-D	6.2	2.91 (73.9)	1 5/8

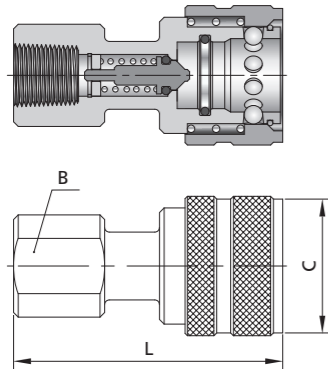
Female BSPT



Female BSPT				
BSPT Size	Basic Ordering Number	Flow Coefficient (Cv)	A	F
			in. (mm)	in.
1/8	-QV2-FRT2-D	0.2	1.16 (29.5)	9/16
1/4	-QV4-FRT4-D	0.6	1.39 (35.3)	3/4
3/8	-QV6-FRT6-D	1.2	1.50 (38.1)	7/8
1/2	-QV8-FRT8-D	2.6	1.75 (44.5)	1 1/8
3/4	-QV12-FRT12-D	3.3	2.16 (54.9)	1 3/8
1	-QV16-FRT16-D	6.2	2.91 (73.9)	1 5/8

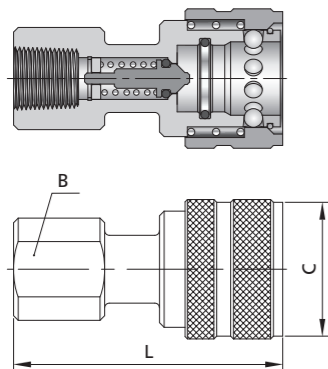
Bodies

Female NPT



Female NPT				
NPT Size	Basic Ordering Number	A	B	C
		in. (mm)	in. (mm)	in. (mm)
1/8	-QV2-FNS2-B	1.90 (48.3)	0.63 (15.9)	0.96 (24.4)
1/4	-QV4-FNS4-B	2.26 (57.4)	0.81 (20.6)	1.14 (29.0)
3/8	-QV6-FNS6-B	2.49 (63.2)	0.88 (22.2)	1.40 (35.6)
1/2	-QV8-FNS8-B	2.87 (72.9)	1.13 (28.6)	1.77 (45.0)
3/4	-QV12-FNS12-B	3.56 (90.4)	1.31 (33.3)	2.14 (54.4)
1	-QV16-FNS16-B	4.18 (106.2)	1.63 (41.3)	2.52 (64.0)

Female BSPT



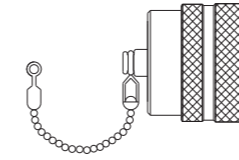
Female BSPT				
NPT Size	Basic Ordering Number	A	B	C
		in. (mm)	in. (mm)	in. (mm)
1/8	-QV2-FRT2-B	1.90 (48.3)	0.69 (17.5)	0.96 (24.4)
1/4	-QV4-FRT4-B	2.26 (57.4)	0.81 (20.6)	1.14 (29.0)
3/8	-QV6-FRT6-B	2.49 (63.2)	0.88 (22.2)	1.40 (35.6)
1/2	-QV8-FRT8-B	2.87 (72.9)	1.13 (28.6)	1.77 (45.0)
3/4	-QV12-FRT12-B	3.56 (90.4)	1.31 (33.3)	2.14 (54.4)
1	-QV16-FRT16-B	4.18 (106.2)	1.63 (41.3)	2.52 (64.0)

Options, QV Series

Stem and Body Protector

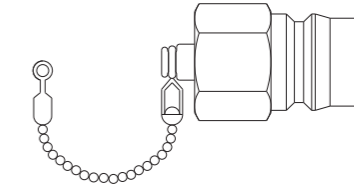
Stem and body protector can prevent the stem and the body from being damaged and polluted in the process of disconnection.

Stem Protector



Series	Basic Ordering Number
QV2	-QV2-SP
QV4	-QV4-SP
QV6	-QV6-SP
QV8	-QV8-SP
QV12	-QV12-SP
QV16	-QV16-SP

Body Protector



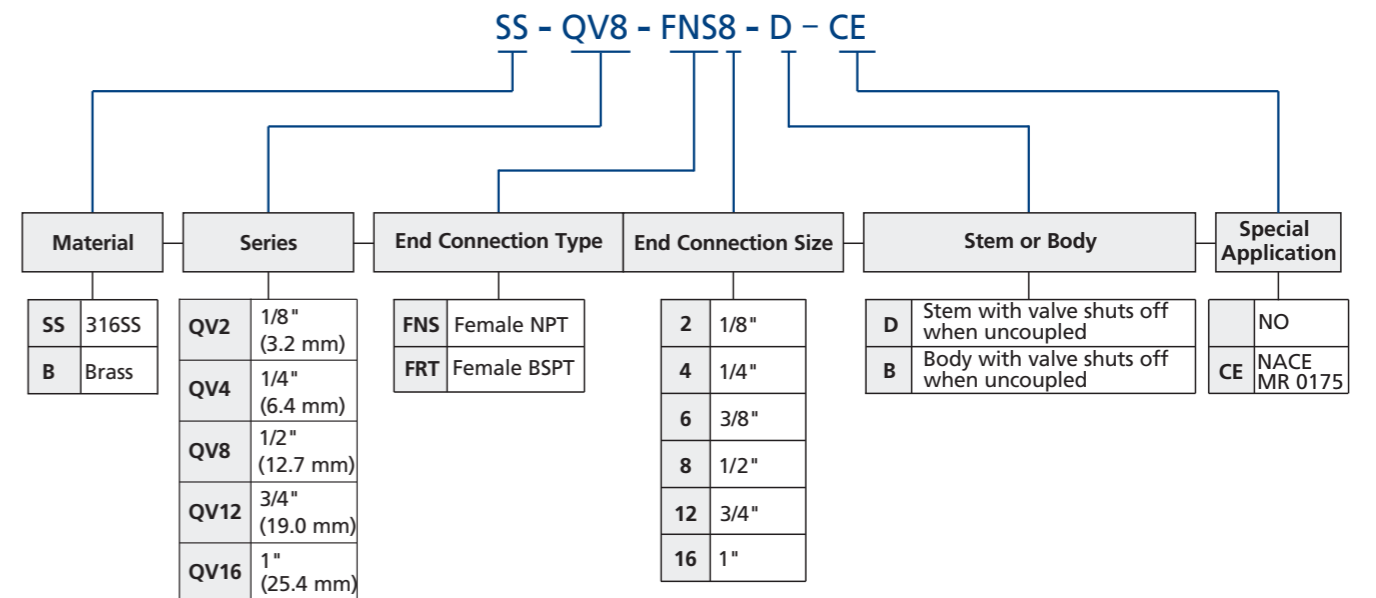
Series	Basic Ordering Number
QV2	-QV2-BP
QV4	-QV4-BP
QV6	-QV6-BP
QV8	-QV8-BP
QV12	-QV12-BP
QV16	-QV16-BP

⦿ Part number description of the protector: Material (SS for stainless steel or B for brass) + Basic Ordering Number.

Example: **SS-QV4-BP**

⦿ The protector is not a pressure sustaining device. If you want to order it, please contact FITOK group or authorized agent.

Part Number Description



Note: 1. Most configurations are available but not everyone.

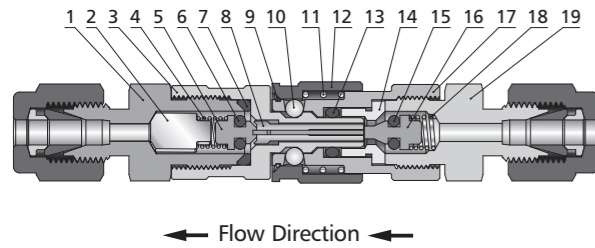
2. Dimensions are for reference only and are subject to change.

QM Series

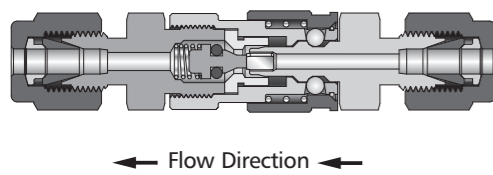
Features

- Working Pressure up to: 4000 psig (276 bar)
- Single-end shutoff, double-end shutoff and full-flow available
- Quick, easy operation

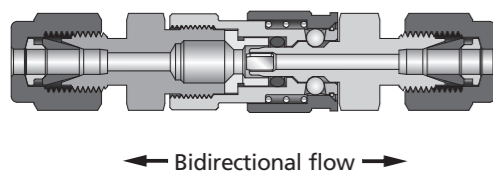
Double-end Shutoff (DESO)



Single-end Shutoff (SESO)



Full-flow Quick-connects



Standard Materials of Construction

NO.	Component	Body Material	
		Stainless Steel	Brass
		Material Grade/ASTM Standard	
1	Stem body	316 SS/A276	Brass C36000/B16
2	Valve block	316 SS/A240	Brass C26000/B36
3	Stem	316 SS/A276	Brass C36000/B16
4	Springs	316 SS/A313	
5	Valve head	316 SS/A276	Brass C36000/B16
6	O-rings	Fluorocarbon FKM	Buna N
7			
8	Stem insert	316 SS/A240	Brass C26000/B36
9	Snap rings	316 SS/A313	
10	Steel ball	440C/A276	
11	Springs	316 SS/A313	
12	Body sleeve	316 SS/A276	Brass C36000/B16
13	O-rings	Fluorocarbon FKM	Buna N
14	Insert	316 SS/A276	Brass C36000/B16
15	O-rings	Fluorocarbon FKM	Buna N
16	Valve head	316 SS/A276	Brass C36000/B16
17	housing	316 SS/A276	Brass C36000/B16
18	Springs	316 SS/A313	
19	Body	316 SS/A276	Brass C36000/B16

Pressure -Temperature Ratings

Temperature °F (°C)	316 SS with Fluorocarbon FKM O-rings	Brass with Buna N O-rings
	Pressure Rating, psig(bar)	
70 (20)	4000 (276)	2000 (138)
250 (121)	—	100 (6.8)
400 (204)	100 (6.8)	—

Insert Depth

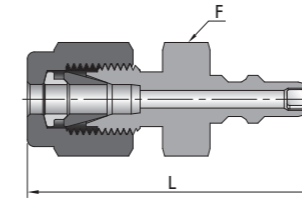
In order to measure overall length in the coupled position, insertion depth should be deducted from any overall stem and body combination length.

Depth in. (mm)	
SESO	DESO
0.47 (11.9)	0.53 (13.5)

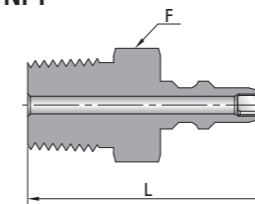
Dimensions

SESO Stems

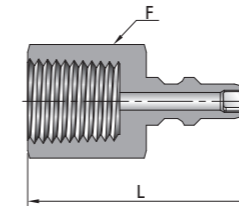
Tube Fitting



Male NPT

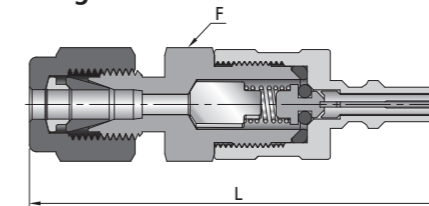


Female NPT

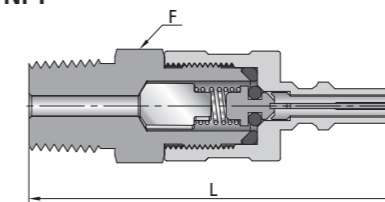


DESO Stems

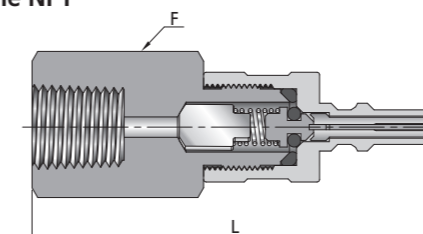
Tube Fitting



Male NPT



Female NPT



Tube Size in.	Basic Ordering Number	Flow Coefficient (Cv)	A	F
			in. (mm)	in.
1/16	QM-FL1-S	0.06	1.18 (30.0)	7/16
1/8	QM-FL2-S		1.29 (32.8)	

NPT Size in.	Basic Ordering Number	Flow Coefficient (Cv)	A	F
			in. (mm)	in.
1/16	QM-NS1-S	0.06	1.03 (26.2)	7/16
1/8	QM-NS2-S			

NPT Size in.	Basic Ordering Number	Flow Coefficient (Cv)	A	F
			in. (mm)	in.
1/16	QM-FNS1-S	0.06	1.03 (26.2)	7/16
1/8	QM-FNS2-S			

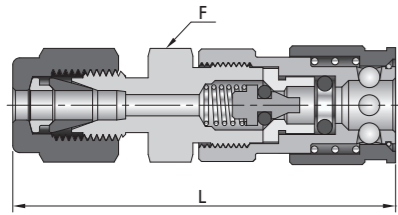
Tube Size in.	Basic Ordering Number	Flow Coefficient (Cv)	A	F
			in. (mm)	in.
1/16	QM-FL1-D	0.05	1.76 (44.7)	7/16
1/8	QM-FL2-D		1.87 (47.5)	

NPT Size in.	Basic Ordering Number	Flow Coefficient (Cv)	A	F
			in. (mm)	in.
1/16	QM-NS1-D	0.05	1.61 (40.9)	7/16
1/8	QM-NS2-D			

NPT Size in.	Basic Ordering Number	Flow Coefficient (Cv)	A	F
			in. (mm)	in.
1/16	QM-FNS1-D	0.05	1.61 (40.9)	7/16
1/8	QM-FNS2-D			

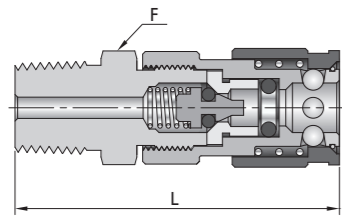
Bodies

Tube Fitting



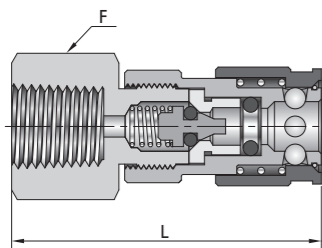
Tube Size in.	Basic Ordering Number	A in. (mm)	F in.
1/16	QM-FL1-B	1.50 (38.1)	7/16
1/8	QM-FL2-B	1.70 (43.2)	

Male NPT



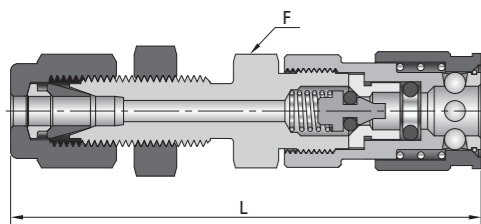
NPT Size in.	Basic Ordering Number	A in. (mm)	F in.
1/16	QM-NS1-B	1.42 (36.1)	7/16
1/8	QM-NS2-B	1.44 (36.6)	

Female NPT



NPT Size in.	Basic Ordering Number	A in. (mm)	F in.
1/16	QM-FNS1-B	1.43 (36.3)	7/16
1/8	QM-FNS2-B	1.62 (41.1)	9/16

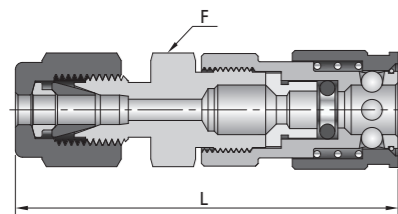
Bulkhead Tube Fitting



Tube Size in.	Basic Ordering Number	A in. (mm)	F in.	Min. Panel Hole in.(mm)	Max. Panel Thickness in.(mm)
1/8	QM-BFL2-B	2.09 (53.1)	7/16	0.33 (8.3)	0.25 (6.4)

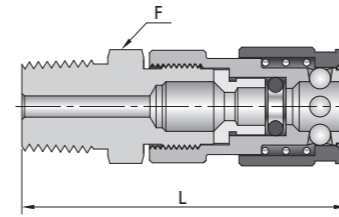
Full-flow Bodies

Tube Fitting



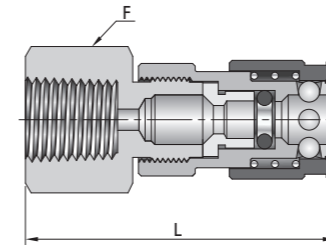
Tube Size in.	Basic Ordering Number	Flow Coefficient (Cv)	A in. (mm)	F in.
1/16	QM-FL1-F	0.06	1.50 (38.1)	7/16
1/8	QM-FL2-F		1.70 (43.2)	

Male NPT



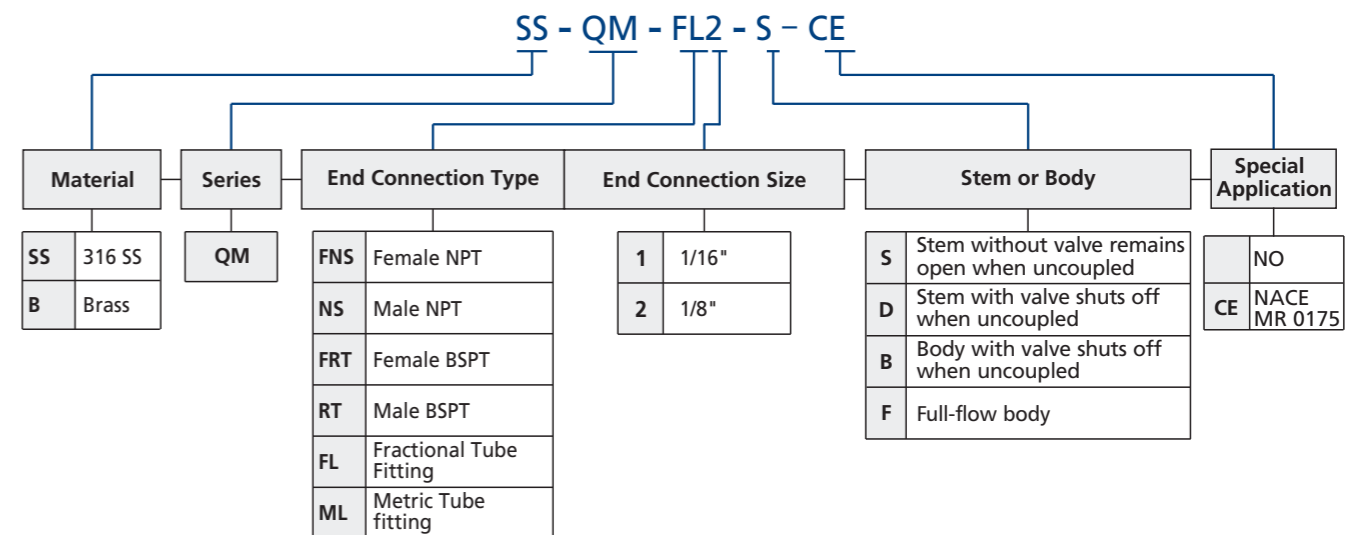
NPT Size in.	Basic Ordering Number	Flow Coefficient (Cv)	A in. (mm)	F in.
1/16	QM-NS1-F	0.06	1.42 (36.1)	7/16
1/8	QM-NS2-F		1.44 (36.6)	

Female NPT



NPT Size in.	Basic Ordering Number	Flow Coefficient (Cv)	L in. (mm)	F in.
1/16	QM-FNS1-F	0.06	1.43 (36.3)	7/16
1/8	QM-FNS2-F		1.62 (41.1)	9/16

Part Number Description



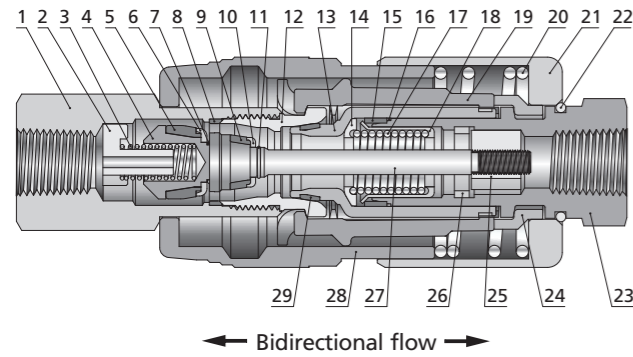
Note: 1. Most configurations are available but not everyone.
 2. Dimensions are for reference only and are subject to change.

QTM Series

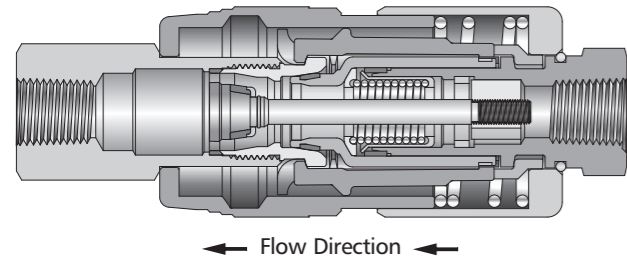
Features

- Special design to reduce air inclusion and spillage
- PTFE sealing, suitable for more solvent
- Push-to-connect design to enable quick, simple operation
- Locking mechanism with large contact area to retain stem

Double-end Shutoff (DESO)



Single-end Shutoff (SESO)



Pressure-Temperature Ratings

Temperature °F (°C)	316 SS			Alloy 400
	QTM2	QTM4	QTM8	QTM2
Pressure Rating, psig (bar)				
Coupled				
0~120 (-17~48)	4500 (310)		3200 (220)	3200 (220)
Uncoupled				
0~120 (-17~48)			1000 (68.9)	
When Coupling and Uncoupling				
70 (20)	250 (17.2)	100 (6.8)	50 (3.4)	250 (17.2)

Note: Pressure ratings may be limited by end connections.

Insertion Depth

Series	Depth in. (mm)
QTM2	1.26 (32.1)
QTM4	0.95 (24.0)
QTM8	1.15 (29.1)

Materials of Construction

Item	Component	Material	
1	Stem	316 SS	Alloy 400
2	Spring seat	316 SS	Alloy 400
3	Spring	316 SS	Alloy X-750
4	DESO valve	316 SS	Alloy 400
5	DESO sealing ring	PTFE	PTFE
6	DESO stem fins	316 SS	Alloy 400
7	Roundwire snap rings for shaft	316 SS	Alloy X-750
8	Adapter seal gasket	PTFE	PTFE
9	Body sealing ring	PTFE	PTFE
10	Body fin	316 SS	Alloy 400
11	Roundwire snap rings for shaft	316 SS	Alloy X-750
12	Stem adapter	316 SS	Alloy 400
13	Body sliding sleeve	316 SS	Alloy 400
14	Spring pad	316 SS	Alloy 400
15	Body packing ring	PTFE	PTFE
16	Body packing support ring	PTFE	PTFE
17	Spring	Elgiloy Alloy	Elgiloy Alloy
18	Body insert	316 SS	Alloy 400
19	Sliding hook-spring ring assembly	316 SS	Alloy 400
20	Spring	316 SS	Alloy X-750
21	Body valve cap 2	316 SS	Alloy 400
22	Roundwire snap rings for shaft	316 SS	Alloy X-750
23	Body fitting body	Xylan coating 316 SS	Xylan coating alloy 400
24	Locking device	316 SS	Alloy 400
25	Screw connection ring	316 SS	Alloy 400
26	Back-up ring	316 SS	Alloy 400
27	Body bolt	316 SS	Alloy 400
28	Body valve cap 1	316 SS	Alloy 400
29	Body sealing ring	PTFE	PTFE
30	Lubricants	PTFE-based	PTFE-based

Spillage and Air Inclusion

DESO only

Series	Spillage cm ³	Air Inclusion cm ³
QTM2	0.1	0.1
QTM4	0.2	0.4
QTM8	1.0	2.0

Maximum Flow Rate

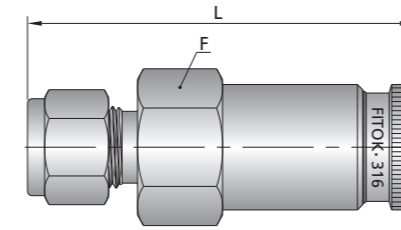
at 70°F (20°C)

Series	Water Flow U.S. gal/min (L/min)
QTM2	15 (56)
QTM4	35 (130)
QTM8	50 (180)

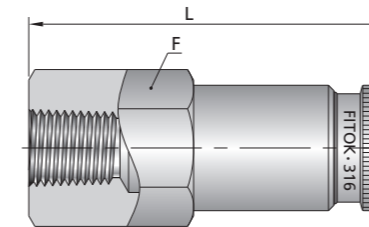
Dimensions

DESO Stems

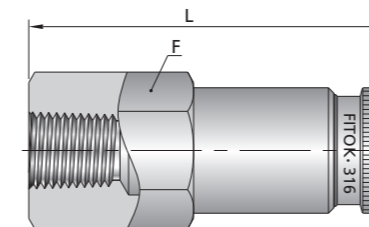
Tube Fitting



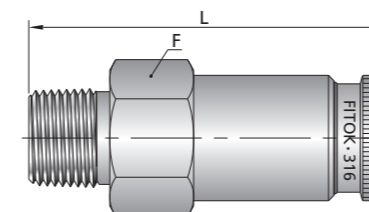
Female NPT



Female BSPT



Male NPT



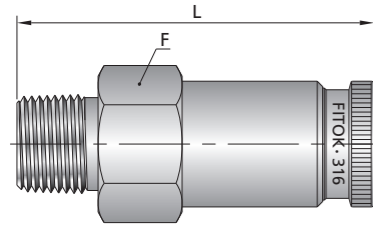
Tube Size	Basic Ordering Number	Flow Coefficient (Cv)	L	F
in.			in. (mm)	in.
1/4	-QTM2-FL4-D	0.6	2.02 (51.3)	5/8
1/4	-QTM4-FL4-D	0.8	2.61 (66.3)	15/16
3/8	-QTM2-FL6-D	0.8	2.08 (52.8)	11/16
3/8	-QTM4-FL6-D	1.6	2.67 (67.8)	15/16
1/2	-QTM8-FL8-D	3.1	3.06 (77.7)	1 5/16
3/4	-QTM8-FL12-D	6.5	3.06 (77.7)	1 5/16
1	-QTM8-FL16-D	7.8	3.27 (83.1)	1 3/8
mm			mm (in.)	mm
6	-QTM2-ML6-D	0.6	51.3 (2.02)	16
6	-QTM4-ML6-D	0.8	66.3 (2.61)	24
8	-QTM2-ML8-D	0.8	53.1 (2.09)	11/16 in.
10	-QTM4-ML10-D	1.6	68.1 (2.68)	24
12	-QTM8-ML12-D	3.1	77.7 (3.06)	35

Tube Size	Basic Ordering Number	Flow Coefficient (Cv)	L	F
in.			in. (mm)	in.
1/8	-QTM2-FNS2-D	0.7	1.73 (43.9)	5/8
1/4	-QTM2-FNS4-D	0.7	2.04 (51.8)	3/4
1/4	-QTM4-FNS4-D	1.4	2.36 (59.9)	15/16
3/8	-QTM2-FNS6-D	0.6	2.14 (54.4)	7/8
3/8	-QTM4-FNS6-D	1.7	2.48 (63.0)	15/16
1/2	-QTM8-FNS8-D	4.4	2.66 (67.6)	1 5/16
3/4	-QTM8-FNS12-D	7.8	2.66 (67.6)	1 5/16
1	-QTM8-FNS16-D	—	3.17 (80.5)	1 5/8

Tube Size	Basic Ordering Number	Flow Coefficient (Cv)	L	F
in.			in. (mm)	in.
1/8	-QTM2-FRT2-D	0.7	1.73 (43.9)	5/8
1/4	-QTM2-FRT4-D	0.7	2.04 (51.8)	3/4
1/4	-QTM4-FRT4-D	1.4	2.36 (59.9)	15/16
3/8	-QTM2-FRT6-D	0.6	2.14 (54.4)	7/8
3/8	-QTM4-FRT6-D	1.7	2.48 (63.0)	15/16
1/2	-QTM8-FRT8-D	4.4	2.66 (67.6)	1 5/16
3/4	-QTM8-FRT12-D	7.8	2.66 (67.6)	1 5/16
1	-QTM8-FRT16-D	—	3.17 (80.5)	1 5/8

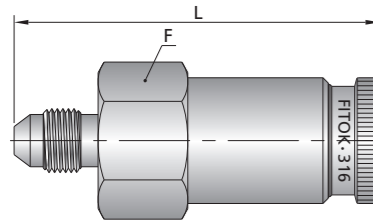
Tube Size	Basic Ordering Number	Flow Coefficient (Cv)	L	F
in.			in. (mm)	in.
1/4	-QTM2-NS4-D	0.2	1.91 (48.5)	5/8
1/4	-QTM4-NS4-D	1.4	2.46 (62.5)	15/16
3/8	-QTM2-NS6-D	0.6	2.04 (51.8)	3/4
3/8	-QTM4-NS6-D	1.7	2.46 (62.5)	15/16
1/2	-QTM8-NS8-D	4.4	2.78 (70.6)	1 5/16
3/4	-QTM8-NS12-D	7.8	2.78 (70.6)	1 5/16
1	-QTM8-NS16-D	—	3.03 (77.0)	1 3/8

Male BSPT



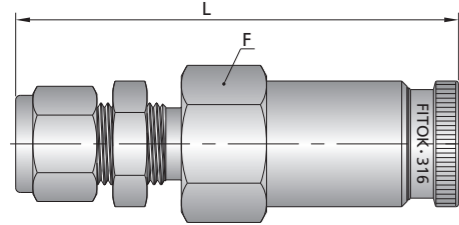
Tube Size in.	Basic Ordering Number	Flow Coefficient (Cv)	L in. (mm)	F in.
1/4	-QTM2-RT4-D	0.2	1.91 (48.5)	5/8
1/4	-QTM4-RT4-D	1.4	2.46 (62.5)	15/16
3/8	-QTM2-RT6-D	0.6	2.04 (51.8)	3/4
3/8	-QTM4-RT6-D	1.7	2.46 (62.5)	15/16
1/2	-QTM8-RT8-D	4.4	2.78 (70.6)	1 5/16
3/4	-QTM8-RT12-D	7.8	2.78 (70.6)	1 5/16
1	-QTM8-RT16-D	—	3.03 (77.0)	1 3/8

Male JIC (AN) 37° Flare



Tube Size in.	Basic Ordering Number	Flow Coefficient (Cv)	L in. (mm)	F in.
1/4	-QTM4-AN4-D	—	2.52 (64.0)	15/16
1/2	-QTM8-AN8-D	2.7	2.46 (70.6)	1 5/16

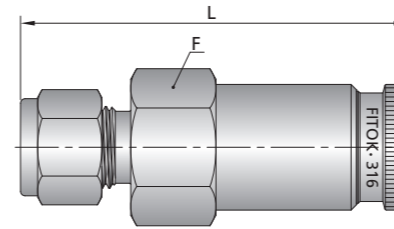
Bulkhead Tube Fitting



Tube Size in.	Basic Ordering Number	Flow Coefficient (Cv)	L in. (mm)	F in.	Min. Panel Orifice in. (mm)	Max. Panel Thickness in. (mm)
1/4	-QTM4-BFL4-D	0.8	3.05 (77.5)	15/16	0.46 (11.7)	0.15 (3.8)
3/8	-QTM4-BFL6-D	1.6	3.05 (77.5)	15/16	0.58 (14.7)	0.15 (3.8)
1/2	-QTM8-BFL8-D	3.1	3.54 (89.9)	1 5/16	0.77 (19.6)	0.19 (4.8)
mm			mm (in.)	mm	mm (in.)	mm (in.)
6	-QTM4-BML6-D	0.8	77.5 (3.05)	24	11.7 (0.46)	3.8 (0.15)
10	-QTM4-BML10-D	1.6	77.7 (3.06)	24	16.8 (0.66)	3.8 (0.15)
12	-QTM8-BML12-D	3.1	89.9 (3.54)	35	19.6 (0.77)	4.8 (0.19)

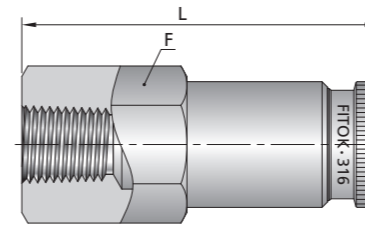
SESO Stem

Tube Fitting



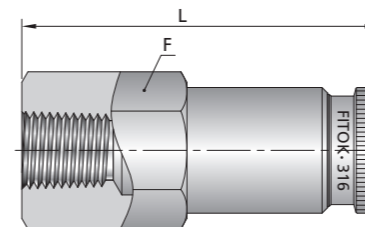
Tube Size in.	Basic Ordering Number	Flow Coefficient (Cv)	L in. (mm)	F in.
1/4	-QTM2-FL4-S	0.7	2.02 (51.3)	5/8
1/4	-QTM4-FL4-S	0.9	2.61 (66.3)	15/16
3/8	-QTM2-FL6-S	0.9	2.08 (52.8)	11/16
3/8	-QTM4-FL6-S	1.7	2.67 (67.8)	15/16
1/2	-QTM8-FL8-S	4.2	3.06 (77.7)	1 5/16
3/4	-QTM8-FL12-S	6.7	3.06 (77.7)	1 5/16
1	-QTM8-FL16-S	9.0	3.27 (83.1)	1 3/8
mm			mm (in.)	mm
6	-QTM2-ML6-S	0.7	51.3 (2.02)	16
6	-QTM4-ML6-S	0.9	66.3 (2.61)	24
8	-QTM2-ML8-S	0.9	53.1 (2.09)	11/16 in.
10	-QTM4-ML10-S	1.7	68.1 (2.68)	24
12	-QTM8-ML12-S	4.2	77.7 (3.06)	35

Female NPT



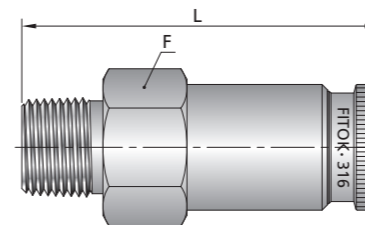
Tube Size in.	Basic Ordering Number	Flow Coefficient (Cv)	L in. (mm)	F in.
1/8	-QTM2-FNS2-S	0.7	1.73 (43.9)	5/8
1/4	-QTM2-FNS4-S	0.7	2.04 (51.8)	3/4
1/4	-QTM4-FNS4-S	1.4	2.36 (59.9)	15/16
3/8	-QTM2-FNS6-S	0.7	2.14 (54.4)	7/8
3/8	-QTM4-FNS6-S	1.8	2.48 (63.0)	15/16
1/2	-QTM8-FNS8-S	5.1	2.66 (67.6)	1 5/16
3/4	-QTM8-FNS12-S	8.5	2.66 (67.6)	1 5/16
1	-QTM8-FNS16-S	—	3.17 (80.5)	1 5/8

Female BSPT



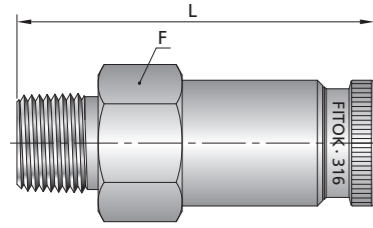
Tube Size in.	Basic Ordering Number	Flow Coefficient (Cv)	L in. (mm)	F in.
1/8	-QTM2-FRT2-S	0.7	1.73 (43.9)	5/8
1/4	-QTM2-FRT4-S	0.7	2.04 (51.8)	3/4
1/4	-QTM4-FRT4-S	1.4	2.36 (59.9)	15/16
3/8	-QTM2-FRT6-S	0.7	2.14 (54.4)	7/8
3/8	-QTM4-FRT6-S	1.8	2.48 (63.0)	15/16
1/2	-QTM8-FRT8-S	5.1	2.66 (67.6)	1 5/16
3/4	-QTM8-FRT12-S	8.5	2.66 (67.6)	1 5/16
1	-QTM8-FRT16-S	—	3.17 (80.5)	1 5/8

Male NPT



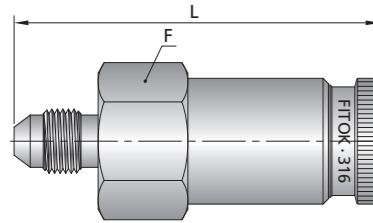
Tube Size in.	Basic Ordering Number	Flow Coefficient (Cv)	L in. (mm)	F in.
1/4	-QTM2-NS4-S	0.2	1.91 (48.5)	5/8
1/4	-QTM4-NS4-S	1.4	2.46 (62.5)	15/16
3/8	-QTM2-NS6-S	0.7	2.04 (51.8)	3/4
3/8	-QTM4-NS6-S	1.8	2.46 (62.5)	15/16
1/2	-QTM8-NS8-S	5.1	2.78 (70.6)	1 5/16
3/4	-QTM8-NS12-S	8.5	2.78 (70.6)	1 5/16
1	-QTM8-NS16-S	—	3.03 (77.0)	1 3/8

Male BSPT



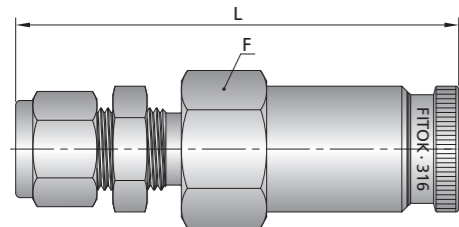
Tube Size	Basic Ordering Number	Flow Coefficient (Cv)	L	F
in.			in. (mm)	in.
1/4	-QTM2-RT4-S	0.2	1.91 (48.5)	5/8
1/4	-QTM4-RT4-S	1.4	2.46 (62.5)	15/16
3/8	-QTM2-RT6-S	0.7	2.04 (51.8)	3/4
3/8	-QTM4-RT6-S	1.8	2.46 (62.5)	15/16
1/2	-QTM8-RT8-S	5.1	2.78 (70.6)	1 5/16
3/4	-QTM8-RT12-S	8.5	2.78 (70.6)	1 5/16
1	-QTM8-RT16-S	—	3.03 (77.0)	1 3/8

Male JIC(AN) 37° Flare



Tube Size	Basic Ordering Number	Flow Coefficient (Cv)	L	F
in.			in. (mm)	in.
1/4	-QTM4-AN4-S	—	2.52 (64.0)	15/16
1/2	-QTM8-AN8-S	4.2	2.46 (70.6)	1 5/16

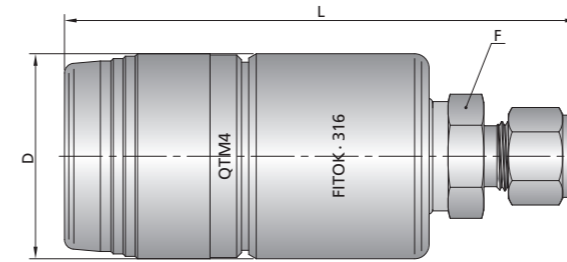
Bulkhead Tube Fitting



Tube Size	Basic Ordering Number	Flow Coefficient (Cv)	L	F	Min. Panel Orifice	Max. Panel Thickness
in.			in. (mm)	in.		
1/4	-QTM4-BFL4-S	0.9	3.05 (77.5)	15/16	0.46 (11.7)	0.15 (3.8)
3/8	-QTM4-BFL6-S	1.7	3.05 (77.5)	15/16	0.58 (14.7)	0.15 (3.8)
1/2	-QTM8-BFL8-S	4.2	3.54 (89.9)	1 5/16	0.77 (19.6)	0.19 (4.8)
mm	—	—	mm (in.)	mm	mm (in.)	mm (in.)
6	-QTM4-BML6-S	0.9	77.5 (3.05)	24	11.7 (0.46)	3.8 (0.15)
10	-QTM4-BML10-S	1.7	77.7 (3.06)	24	16.8 (0.66)	3.8 (0.15)
12	-QTM8-BML12-S	4.2	89.9 (3.54)	35	19.6 (0.77)	4.8 (0.19)

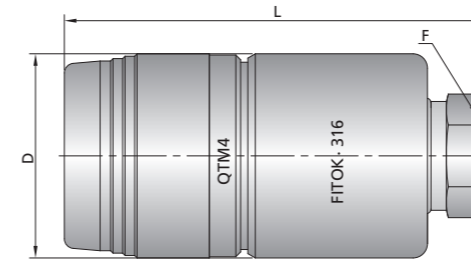
Bodies

Tube Fitting



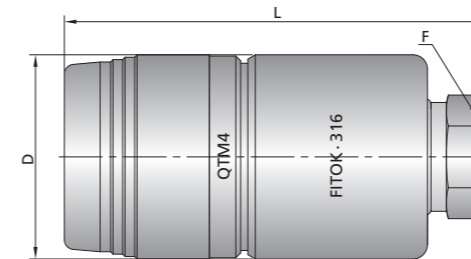
Tube Size	Basic Ordering Number	L	D	F
in.		in. (mm)	in. (mm)	in.
1/4	-QTM2-FL4-B	3.16 (80.3)	1.12 (28.4)	9/16
1/4	-QTM4-FL4-B	4.17 (106)	1.68 (42.7)	7/8
3/8	-QTM2-FL6-B	3.25 (82.6)	1.12 (28.4)	3/4
3/8	-QTM4-FL6-B	4.17 (106)	1.68 (42.7)	7/8
1/2	-QTM8-FL8-B	4.30 (109)	2.00 (50.8)	1 1/8
3/4	-QTM8-FL12-B	4.30 (109)	2.00 (50.8)	1 1/8
1	-QTM8-FL16-B	4.58 (116)	2.00 (50.8)	1 3/8
mm	—	—	mm (in.)	mm
6	-QTM2-ML6-B	80.3 (3.16)	51.3 (2.02)	15
6	-QTM4-ML6-B	106 (4.17)	66.3 (2.61)	24
8	-QTM2-ML8-B	80.3 (3.16)	53.1 (2.09)	15
10	-QTM4-ML10-B	106 (4.17)	68.1 (2.68)	24
12	-QTM8-ML12-B	109 (4.30)	77.7 (3.06)	30

Female NPT



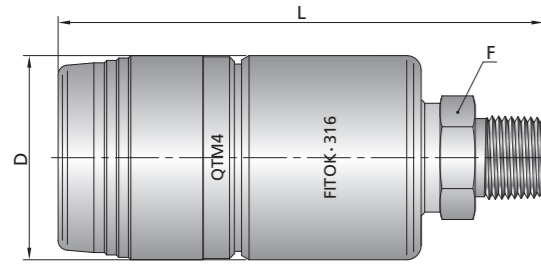
Tube Size	Basic Ordering Number	L	D	F
in.		in. (mm)	in. (mm)	in.
1/8	-QTM2-FNS2-B	2.60 (66.0)	1.12 (28.4)	9/16
1/4	-QTM2-FNS4-B	2.99 (75.9)	1.12 (28.4)	3/4
1/4	-QTM4-FNS4-B	3.35 (85.1)	1.68 (42.7)	7/8
3/8	-QTM2-FNS6-B	3.04 (77.2)	1.12 (28.4)	7/8
3/8	-QTM4-FNS6-B	3.35 (85.1)	1.68 (42.7)	7/8
1/2	-QTM8-FNS8-B	3.53 (89.7)	2.00 (50.8)	1 1/8
3/4	-QTM8-FNS12-B	4.02 (102)	2.00 (50.8)	1 5/16
1	-QTM8-FNS16-B	4.40 (112)	2.00 (50.8)	1 5/8

Female BSPT



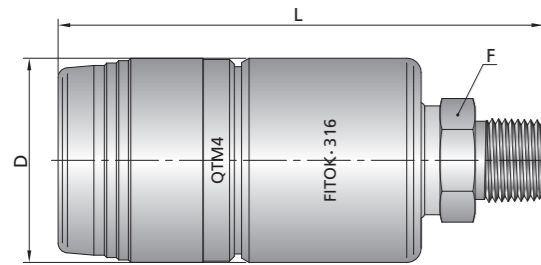
Tube Size	Basic Ordering Number	L	D	F
in.		in. (mm)	in. (mm)	in.
1/8	-QTM2-FRT2-B	2.60 (66.0)	1.12 (28.4)	9/16
1/4	-QTM2-FRT4-B	2.99 (75.9)	1.12 (28.4)	3/4
1/4	-QTM4-FRT4-B	3.35 (85.1)	1.68 (42.7)	7/8
3/8	-QTM2-FRT6-B	3.04 (77.2)	1.12 (28.4)	7/8
3/8	-QTM4-FRT6-B	3.35 (85.1)	1.68 (42.7)	7/8
1/2	-QTM8-FRT8-B	3.53 (89.7)	2.00 (50.8)	1 1/8
3/4	-QTM8-FRT12-B	4.02 (102)	2.00 (50.8)	1 5/16
1	-QTM8-FRT16-B	4.40 (112)	2.00 (50.8)	1 5/8

Male NPT



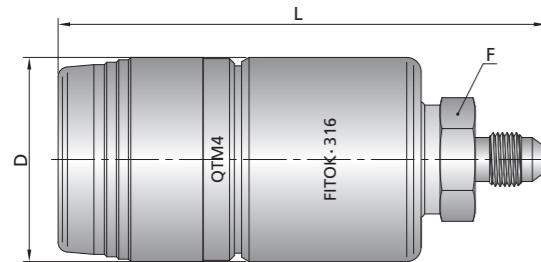
Tube Size	Basic Ordering Number	L	D	F
in.		in. (mm)	in. (mm)	in.
1/4	-QTM2-NS4-B	3.02 (76.7)	1.12 (28.4)	9/16
1/4	-QTM4-NS4-B	3.89 (98.8)	1.68 (42.7)	7/8
3/8	-QTM2-NS6-B	3.07 (78.0)	1.12 (28.4)	3/4
3/8	-QTM4-NS6-B	3.97 (100.8)	1.68 (42.7)	7/8
1/2	-QTM8-NS8-B	4.20 (107)	2.00 (50.8)	1 1/8
3/4	-QTM8-NS12-B	4.19 (106)	2.00 (50.8)	1 1/8
1	-QTM8-NS16-B	4.48 (114)	2.00 (50.8)	1 3/8

Male BSPT



Tube Size	Basic Ordering Number	L	D	F
in.		in. (mm)	in. (mm)	in.
1/4	-QTM2-RT4-B	3.02 (76.7)	1.12 (28.4)	9/16
1/4	-QTM4-RT4-B	3.89 (98.8)	1.68 (42.7)	7/8
3/8	-QTM2-RT6-B	3.07 (78.0)	1.12 (28.4)	3/4
3/8	-QTM4-RT6-B	3.97 (100.8)	1.68 (42.7)	7/8
1/2	-QTM8-RT8-B	4.20 (107)	2.00 (50.8)	1 1/8
3/4	-QTM8-RT12-B	4.19 (106)	2.00 (50.8)	1 1/8
1	-QTM8-RT16-B	4.48 (114)	2.00 (50.8)	1 3/8

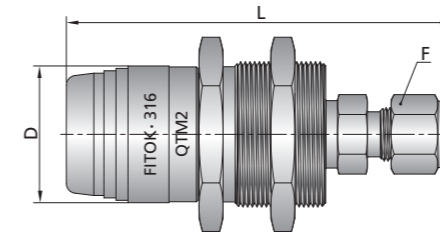
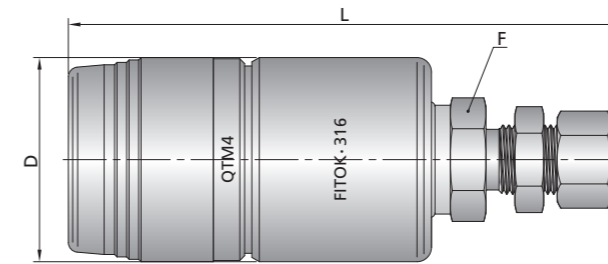
Male JIC (AN) 37° Flare



Tube Size	Basic Ordering Number	L	D	F
in.		in. (mm)	in. (mm)	in.
1/4	-QTM4-AN4-B	3.99 (101.3)	1.12 (28.4)	7/8
1/2	-QTM8-AN8-B	4.20 (107)	2.00 (50.8)	1 1/8

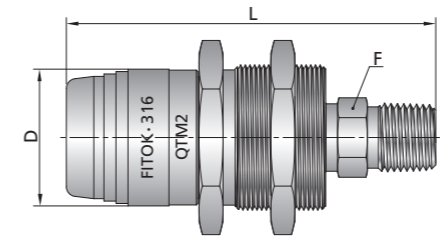
Bulkhead Bodies

Bulkhead Tube Fitting



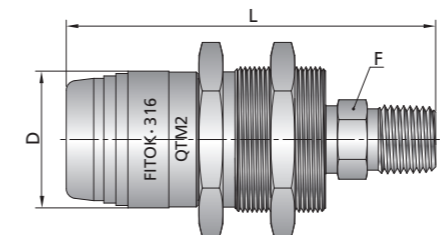
Tube Size	Basic Ordering Number	L	D	F	Min. Panel Orifice	Max. Panel Thickness
in.		in. (mm)	in. (mm)	in.	in. (mm)	in. (mm)
1/4	-QTM2-BFL4-B	3.16 (80.3)	1.12 (28.4)	9/16	1.20 (30.6)	0.65 (16.5)
1/4	-QTM4-BFL4-B	4.42 (112)	1.68 (42.7)	7/8	0.46 (11.7)	0.15 (3.8)
3/8	-QTM4-BFL6-B	4.51 (115)	1.68 (42.7)	7/8	0.58 (14.7)	0.15 (3.8)
1/2	-QTM8-BFL8-B	4.78 (121)	2.00 (50.8)	1 1/8	0.77 (19.6)	0.19 (4.8)
mm		mm (in.)	mm (in.)	mm	mm (in.)	mm (in.)
6	-QTM2-BML6-B	80.3 (3.16)	28.4 (1.12)	15	30.6 (1.20)	16.5 (0.65)
6	-QTM4-BML6-B	112 (4.42)	42.7 (1.68)	24	11.7 (0.46)	3.8 (0.15)
10	-QTM4-BML10-B	115 (4.52)	42.7 (1.68)	24	16.8 (0.66)	3.8 (0.15)
12	-QTM8-BML12-B	121 (4.77)	50.8 (2.00)	30	19.6 (0.77)	4.8 (0.19)

Bulkhead Male NPT



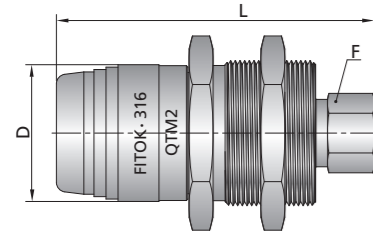
Tube Size	Basic Ordering Number	L	D	F	Min. Panel Orifice	Max. Panel Thickness
in.		in. (mm)	in. (mm)	in.	in. (mm)	in. (mm)
1/4	-QTM2-BNS4-B	3.02 (76.7)	1.12 (28.4)	9/16	1.20 (30.6)	0.65 (16.5)

Bulkhead Male NPT



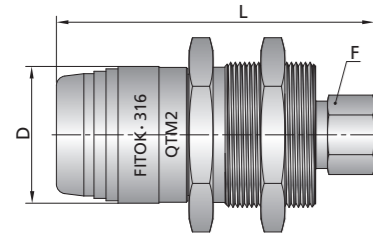
Tube Size	Basic Ordering Number	L	D	F	Min. Panel Orifice	Max. Panel Thickness
in.		in. (mm)	in. (mm)	in.	in. (mm)	in. (mm)
1/4	-QTM2-BRT4-B	3.02 (76.7)	1.12 (28.4)	9/16	1.20 (30.6)	0.65 (16.5)

Bulkhead Female NPT



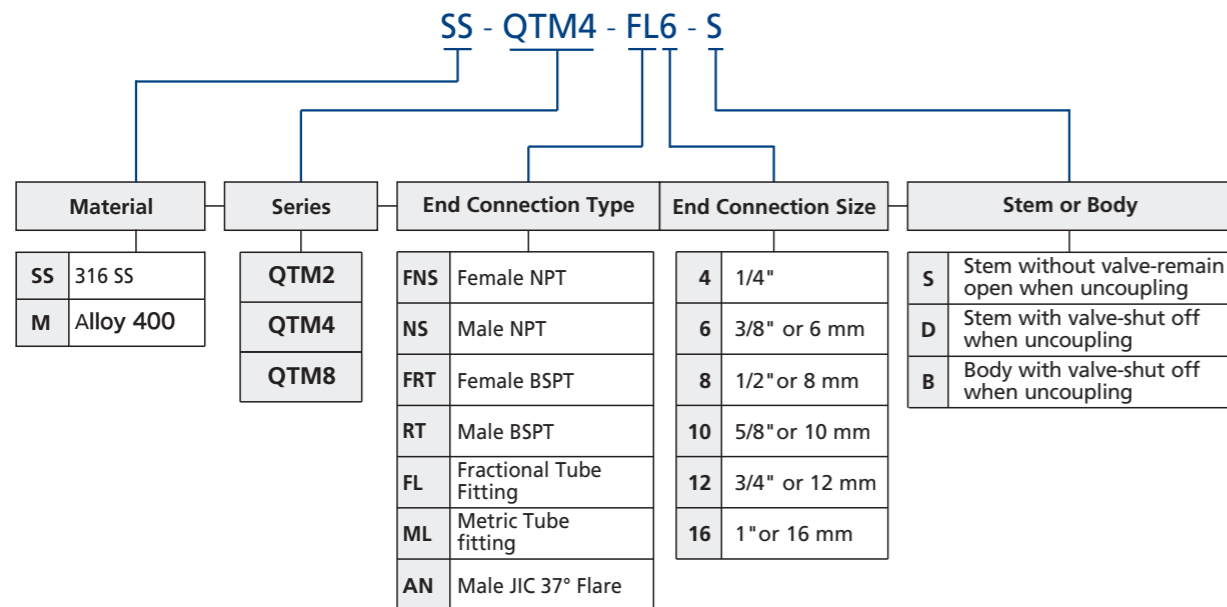
Tube Size	Basic Ordering Number	L	D	F	Min. Panel Orifice	Max. Panel Thickness
		in. (mm)	in. (mm)	in.	in. (mm)	in. (mm)
1/8	-QTM2-BFNS2-B	2.60 (66.0)	1.12 (28.4)	9/16	1.20 (30.6)	0.65 (16.5)
1/4	-QTM2-BFNS4-B	2.96 (75.2)	1.12 (28.4)	3/4	1.20 (30.6)	0.65 (16.5)

Bulkhead Female BSPT



Tube Size	Basic Ordering Number	L	D	F	Min. Panel Orifice	Max. Panel Thickness
		in. (mm)	in. (mm)	in.	in. (mm)	in. (mm)
1/8	-QTM2-BFRT2-B	2.60 (66.0)	1.12 (28.4)	9/16	1.20 (30.6)	0.65 (16.5)
1/4	-QTM2-BFRT4-B	2.96 (75.2)	1.12 (28.4)	3/4	1.20 (30.6)	0.65 (16.5)

Part Number Description



Note: 1. Most configurations are available but not everyone.
 2. Dimensions are for reference only and are subject to change