



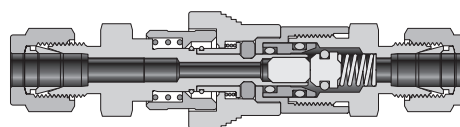
Quick-connects

QC Series

Contents

Instrumentation Quick-Connects (QC1 Series)

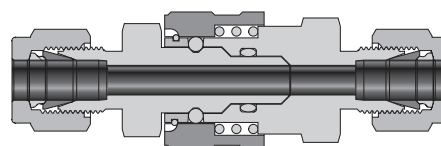
- ❖ Maximum working pressure up to 3000 psig (206 bar)
- ❖ Flow coefficient (Cv) from 0.08 to 2.4
- ❖ End connection sizes from 1/8 to 1/2 in. and 6 to 12 mm
- ❖ Single-end shutoff and double-end shutoff stems



4-21

Full-Flow Quick-Connects (QC2 Series)

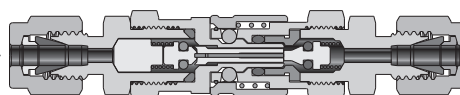
- ❖ Maximum working pressure up to 6000 psig (413 bar)
- ❖ Flow coefficient (Cv) from 1.7 to 45
- ❖ End connection sizes from 1/4 to 1 in. and 6 to 25 mm
- ❖ Single-end shutoff and double-end shutoff stems



4-29

Miniature Quick-Connects (QC3 Series)

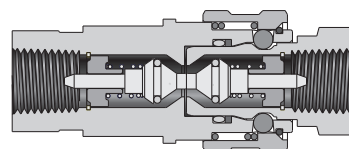
- ❖ Maximum working pressure up to 4000 psig (275 bar)
- ❖ Maximum Flow Rate: 1 u.s.gal/min (3.8L / min) at 70°F (20°C)
- ❖ Spillage and Air Inclusion: 0.1 cm³ (standard DESO and Body)



4-33

General Purpose type Quick-Connects (QC4 Series)

- ❖ Maximum working pressure up to 5000 psig (344.8 bar)
- ❖ Flow coefficient (Cv) from 0.2 to 6.2
- ❖ End connection sizes from 1/8 to 1 in.
- ❖ Single-end shutoff and double-end shutoff stems



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Instrumentation Quick-Connects

QC1 Series

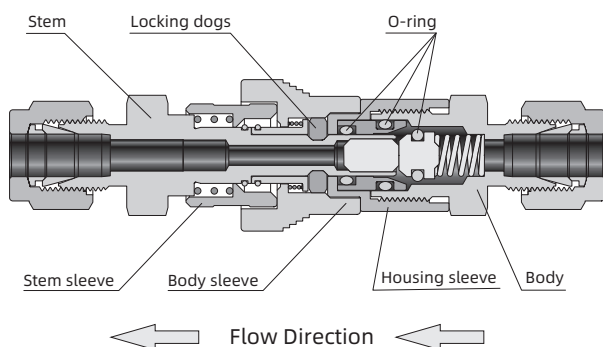
Features

- ❖ Maximum working pressure up to 3000 psig (206 bar)
- ❖ Working temperature from -50°F to 500°F (-45°C to 260°C)
- ❖ Push to connect and pull on knurled sleeve to disconnect enables easy operation
- ❖ Minimal spillage upon disconnect and minimal air inclusion upon connect
- ❖ Materials: stainless steel
- ❖ Wide range of seal materials available
- ❖ Single-end shutoff and double-end shutoff stems
- ❖ Large number of Superior locking balls retains stem
- ❖ Interchangeable and intermixable with major

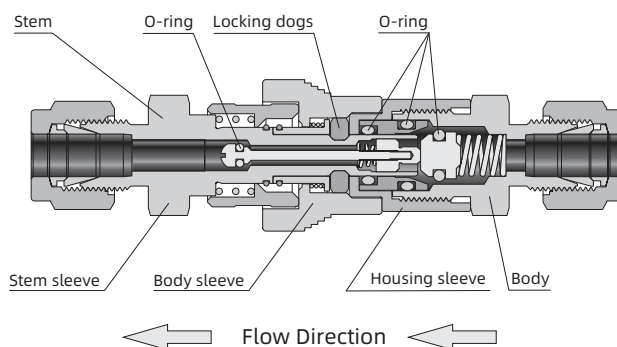
Structure



Single-end Shutoff (SES)



Double-end Shutoff (DES)



Materials of Construction

Component	Material	
	316 S.S.	Brass
Body, stem, body valve, body insert, DESO valve, DESO retainer	316 S.S.	Brass C36000
SES stem insert	316 S.S.	Brass C26000
O-rings	Fluorocarbon FKM, Ethylene propylene, Perfluorocarbon FFKM	Buna N
Springs	316 S.S.	
Snap rings	302 S.S.	
Body sleeve	Powdered metal 300 series S.S.	Brass C36000
Housing	316 S.S.	Brass C36000
DESO stem sleeve	Polyurethane enamel-coated 316 S.S.	Polyurethane enamel-coated brass C36000
SES stem sleeve	316 S.S.	Brass C36000
Locking dogs	Xylan® -coated 316 S.S. powdered metal	

Spillage and Air Inclusion

Series	Spillage cm ³	Air Inclusion cm ³
-4	0.3	0.3
-6	1.0	1.0
-8	3.0	3.0

Maximum Flow Rate at 70°F (20°C)

Series	Water Flow U.S. gal/min (L /min)
-4	4 (15)
-6	6 (22)
-8	10 (37)

Pressure-Temperature Ratings

-4 Series

Material	316 S.S.			Brass
O-Ring Material	Fluorocarbon FKM	Ethylene propylene	Perfluorocarbon FFKM	Buna N
Temperature °F (°C)	Pressure Rating psig(bar)			
Coupled				
-50 (-45)	—	3000 (206)	—	—
0 (-17)	—	3000 (206)	—	2000 (137)
10 (-12)	3000 (206)	3000 (206)	—	2000 (137)
60 (15)	3000 (206)	3000 (206)	3000 (206)	2000 (137)
100 (37)	3000 (206)	3000 (206)	3000 (206)	2000 (137)
150 (65)	2750 (189)	2750 (189)	2750 (189)	1300 (89.5)
200 (93)	2300 (158)	2300 (158)	2300 (158)	700 (48.0)
250 (121)	1850 (127)	1850 (127)	1850 (127)	300 (20.6)
300 (148)	1400 (96.4)	1400 (96.4)	1400 (96.4)	—
350 (176)	950 (65.4)	—	950 (65.4)	—
400 (204)	500 (34.4)	—	500 (34.1)	—
500 (260)	—	—	150 (10.3)	—
Uncoupled and When Coupling and Uncoupling				
70 (20)	250 (17.2)			

-6 Series

Material	316 S.S.			Brass
O-Ring Material	Fluorocarbon FKM	Ethylene propylene	Perfluorocarbon FFKM	Buna N
Temperature °F (°C)	Pressure Rating psig(bar)			
Coupled				
-50 (-45)	—	1500 (103)	—	—
0 (-17)	—	1500 (103)	—	1000 (68.9)
10 (-12)	1500 (103)	1500 (103)	—	1000 (68.9)
60 (15)	1500 (103)	1500 (103)	1500 (103)	1000 (68.9)
100 (37)	1500 (103)	1500 (103)	1500 (103)	1000 (68.9)
150 (65)	1350 (93.0)	1350 (93.0)	1350 (93.0)	700 (48.2)
200 (93)	1150 (79.2)	1150 (79.2)	1150 (79.2)	450 (31.0)
250 (121)	970 (66.8)	970 (66.8)	970 (66.8)	300 (20.6)
300 (148)	750 (51.6)	750 (51.6)	750 (51.6)	—
350 (176)	580 (39.9)	—	580 (39.9)	—
400 (204)	400 (27.5)	—	400 (27.5)	—
500 (260)	—	—	150 (10.3)	—
Uncoupled and When Coupling and Uncoupling				
70 (20)	250 (17.2)			

-8 Series

Material	316 S.S.			Brass
O-Ring Material	Fluorocarbon FKM	Ethylene propylene	Perfluorocarbon FFKM	Buna N
Temperature °F (°C)	Pressure Rating psig(bar)			
Coupled				
-50 (-45)	—	750 (51.6)	—	—
0 (-17)	—	750 (51.6)	—	500 (34.4)
10 (-12)	750 (51.6)	750 (51.6)	—	500 (34.4)
60 (15)	750 (51.6)	750 (51.6)	750 (51.6)	500 (34.4)
100 (37)	750 (51.6)	750 (51.6)	750 (51.6)	500 (34.4)
150 (65)	680 (46.8)	680 (46.8)	680 (46.8)	400 (27.5)
200 (93)	600 (41.3)	600 (41.3)	600 (41.3)	350 (24.1)
250 (121)	520 (35.8)	520 (35.8)	520 (35.8)	300 (20.6)
300 (148)	440 (30.3)	440 (30.3)	440 (30.3)	—
350 (176)	360 (24.8)	—	360 (24.8)	—
400 (204)	300 (20.6)	—	300 (20.6)	—
500 (260)	—	—	150 (10.3)	—
Uncoupled and When Coupling and Uncoupling				
70 (20)	250 (17.2)			

Sealing Ring Options

❖ All Quick-connects default FKM sealing ring. If you choose other sealing rings, please add designator after order number.

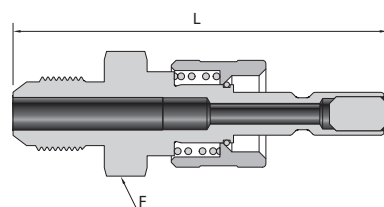
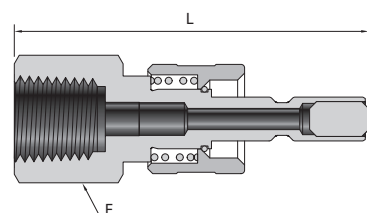
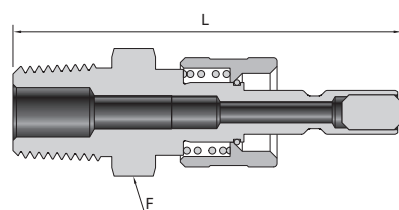
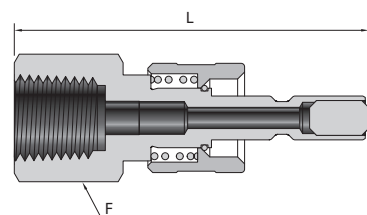
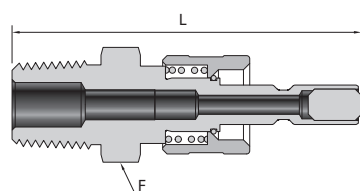
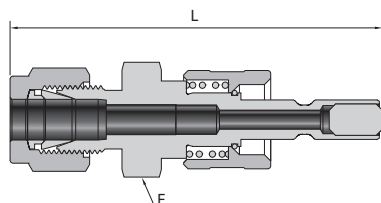
For example: **QC1-4-F4-B-316-E**

QC1-4-F4-D-316-N

Sealing Ring Material	Designator
Ethylene Propylene	-E
Perfluorocarbon FFKM	-Z
Buna N	-N

Dimensions

Single-End Shutoff Stems (SESO)



Tube Fitting

Tube Size in.	Basic Ordering Number	Flow Coefficient (Cv)	F in.	L in.(mm)
1/8	QC1-4-F2-S-	0.08	5/8	2.32(58.9)
1/4	QC1-4-F4-S-	0.3	5/8	2.36(59.9)
3/8	QC1-6-F6-S-	1.0	3/4	2.52(64.0)
1/2	QC1-8-F8-S-	2.4	15/16	2.96(75.2)
mm			mm	mm(in.)
6	QC1-4-M6-S-	0.3	16	59.9(2.36)
10	QC1-6-M10-S-	1.0	19	67.3(2.65)
12	QC1-8-M12-S-	2.4	24	75.2(2.96)

Male NPT

NPT Size	Basic Ordering Number	Flow Coefficient (Cv)	F in.	L in.(mm)
1/8	QC1-4-NPT2-S-	0.3	5/8	2.07(52.6)
1/4	QC1-4-NPT4-S-	0.3	5/8	2.22(56.4)
1/4	QC1-6-NPT4-S-	0.8	3/4	2.32(58.9)
3/8	QC1-6-NPT6-S-	0.8	3/4	2.35(59.7)
1/2	QC1-8-NPT8-S-	2.0	15/16	2.84(72.1)

Female NPT

NPT Size	Basic Ordering Number	Flow Coefficient (Cv)	F in.	L in.(mm)
1/8	QC1-4-FNPT2-S-	0.3	5/8	2.01(51.1)
1/4	QC1-4-FNPT4-S-	0.3	3/4	2.26(57.4)
1/4	QC1-6-FNPT4-S-	0.8	3/4	2.35(59.7)
3/8	QC1-6-FNPT6-S-	0.8	7/8	2.35(59.7)
1/2	QC1-8-FNPT8-S-	2.0	1 1/16	2.82(71.6)

Male BSPT

BSPT Size	Basic Ordering Number	Flow Coefficient (Cv)	F in.	L in.(mm)
1/8	QC1-4-MBT2-S-	0.3	5/8	2.07(52.6)
1/4	QC1-4-MB T4-S-	0.3	5/8	2.22(56.4)
1/4	QC1-6-MB T4-S-	0.8	3/4	2.32(58.9)
3/8	QC1-6-MB T6-S-	0.8	3/4	2.35(59.7)
1/2	QC1-8-MB T8-S-	2.0	15/16	2.84(72.1)

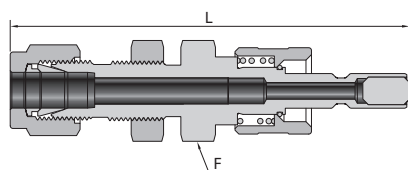
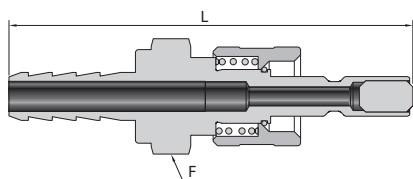
Female BSPT

BSPT Size	Basic Ordering Number	Flow Coefficient (Cv)	F in.	L in.(mm)
1/8	QC1-4-FBT2-S-	0.3	5/8	2.01(51.1)
1/4	QC1-4-FBT4-S-	0.3	3/4	2.26(57.4)
1/4	QC1-6-FBT4-S-	0.8	3/4	2.35(59.7)
3/8	QC1-6-FBT6-S-	0.8	7/8	2.35(59.7)
1/2	QC1-8-FBT8-S-	2.0	1 1/16	2.82(71.6)

Male JIC(AN) 37° Flare

AN Tube Flare Size in.	Basic Ordering Number	Flow Coefficient (Cv)	F in.	L in.(mm)
1/4	QC1-4-AN4-S-	0.2	5/8	2.23(56.6)
3/8	QC1-6-AN6-S-	1.0	3/4	2.35(59.7)
1/2	QC1-8-AN8-S-	2.4	15/16	2.79(70.9)

Single-End Shutoff Stems (SESO)



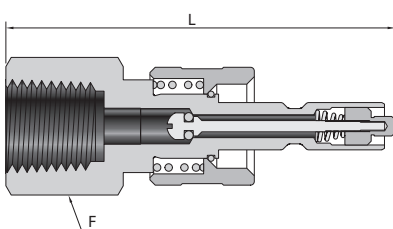
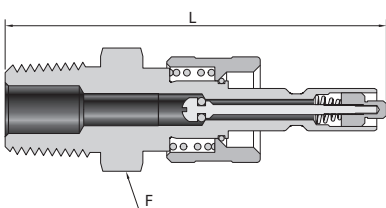
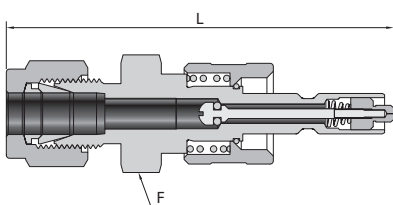
Hose Connector

Hose Size	Basic Ordering Number	Flow Coefficient (Cv)	F	L
in.			in.	in.(mm)
1/4	QC1-4-HC4-S-	0.2	5/8	2.47(62.7)
3/8	QC1-6-HC6-S-	1.0	3/4	2.66(67.6)
1/2	QC1-8-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 Hole	Max. Panel Thickness
in.			in.	in.(mm)	in.(mm)	in.(mm)
1/4	QC1-4-BF4-S-	0.3	5/8	2.74(69.6)	0.47(11.9)	0.25(6.4)
3/8	QC1-6-BF6-S-	1.0	3/4	2.92(74.2)	0.60(15.2)	0.27(6.9)
1/2	QC1-8-BF8-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	QC1-4-BM6-S-	0.3	16	69.6(2.74)	11.7(0.46)	6.4(0.25)
10	QC1-6-BM10-S-	1.0	22	77.7(3.06)	16.8(0.66)	6.9(0.27)
12	QC1-8-BM12-S-	2.4	24	87.1(3.43)	19.6(0.77)	6.6(0.26)

Double-End Shutoff Stems (DESO)



Tube Fitting

Tube Size	Basic Ordering Number	Flow Coefficient (Cv)	F	L
in.			in.	in.(mm)
1/8	QC1-4-F2-D-	0.08	5/8	2.77(70.4)
1/4	QC1-4-F4-D-	0.2	5/8	2.42(61.5)
3/8	QC1-6-F6-D-	0.5	3/4	2.64(67.1)
1/2	QC1-8-F8-D-	1.5	15/16	3.16(80.3)
mm	——	——	mm	mm(in.)
6	QC1-4-M6-D-	0.2	16	61.5(2.42)
10	QC1-6-M10-D-	0.5	19	70.4(2.77)
12	QC1-8-M12-D-	1.5	24	80.3(3.16)

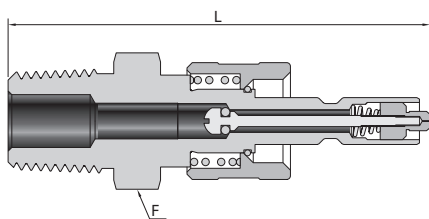
Male NPT

NPT Size	Basic Ordering Number	Flow Coefficient (Cv)	F	L
			in.	in. (mm)
1/8	QC1-4-NPT2-D-	0.2	5/8	2.13(54.1)
1/4	QC1-4-NPT4-D-	0.2	5/8	2.28(57.8)
1/4	QC1-6-NPT4-D-	0.5	3/4	2.44(61.9)
3/8	QC1-6-NPT6-D-	0.5	3/4	2.47(62.7)
1/2	QC1-8-NPT8-D-	1.3	15/16	3.04(77.2)

Female NPT

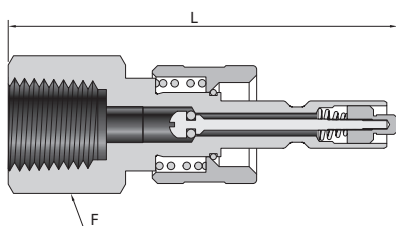
NPT Size	Basic Ordering Number	Flow Coefficient (Cv)	F	L
			in.	in. (mm)
1/8	QC1-4-FNPT2-D-	0.2	5/8	2.07(52.6)
1/4	QC1-4-FNPT4-D-	0.2	3/4	2.32(58.9)
1/4	QC1-6-FNPT4-D-	0.5	3/4	2.47(62.7)
3/8	QC1-6-FNPT6-D-	0.5	7/8	2.47(62.7)
1/2	QC1-8-FNPT8-D-	1.3	1 1/16	3.04(77.2)

Double-End Shutoff Stems (DESO)



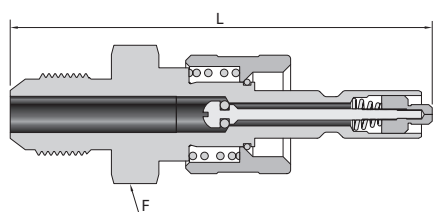
Male BSPT

BSPT Size	Basic Ordering Number	Flow Coefficient (Cv)	F	L
			in.	in. (mm)
1/8	QC1-4-MBT2-D-	0.2	5/8	2.13(54.1)
1/4	QC1-4-MBT4-D-	0.2	5/8	2.28(57.8)
1/4	QC1-6-MBT4-D-	0.5	3/4	2.44(61.9)
3/8	QC1-6-MBT6-D-	0.5	3/4	2.47(62.7)
1/2	QC1-8-MBT8-D-	1.3	15/16	3.04(77.2)



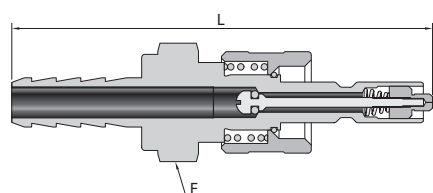
Female BSPT

BSPT Size	Basic Ordering Number	Flow Coefficient (Cv)	F	L
			in.	in.(mm)
1/8	QC1-4-FBT2-D-	0.2	5/8	2.07(52.6)
1/4	QC1-4-FBT4-D-	0.2	3/4	2.32(58.9)
1/4	QC1-6-FBT4-D-	0.5	3/4	2.47(62.7)
3/8	QC1-6-FBT6-D-	0.5	7/8	2.47(62.7)
1/2	QC1-8-FBT8-D-	1.3	1 1/16	3.04(77.2)



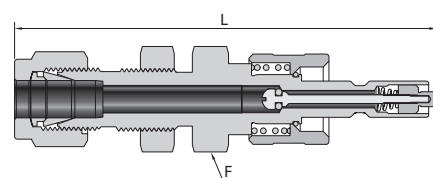
Male JIC(AN) 37° Flare

AN Tube Flare Size in.	Basic Ordering Number	Flow Coefficient (Cv)	F	L
			in.	in.(mm)
1/4	QC1-4-AN4-D-	0.2	5/8	2.29(58.2)
3/8	QC1-6-AN6-D-	0.5	3/4	2.47(62.7)
1/2	QC1-8-AN8-D-	1.5	15/16	2.99(75.9)



Hose Connector

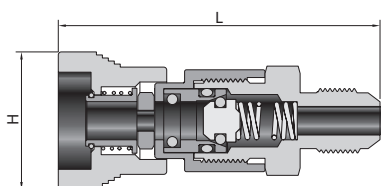
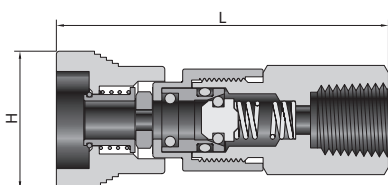
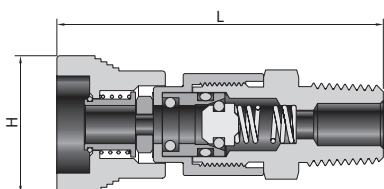
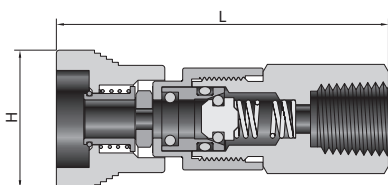
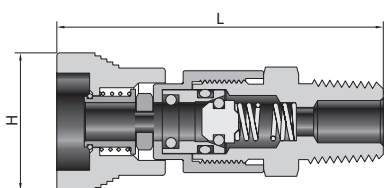
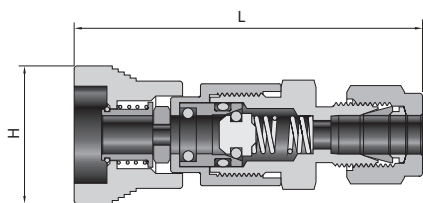
Hose Size in.	Basic Ordering Number	Flow Coefficient (Cv)	F	L
			in.	in.(mm)
1/4	QC1-4-HC4-D-	0.2	5/8	2.53(64.3)
3/8	QC1-6-HC6-D-	0.5	3/4	2.78(70.6)
1/2	QC1-8-HC8-D-	1.5	15/16	3.27(83.1)



Bulkhead Tube Fitting

Tube Size in.	Basic Ordering Number	Flow Coefficient (Cv)	F in.	L in.(mm)	Min. Panel Hole in.(mm)	Max. Panel Thickness in.(mm)
1/4	QC1-4-BF4-D-	0.2	5/8	2.80(71.1)	0.47(11.9)	0.25(6.4)
3/8	QC1-6-BF6-D-	0.5	3/4	3.07(78.0)	0.60(15.2)	0.27(6.9)
1/2	QC1-8-BF8-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	QC1-4-BM6-D-	0.2	16	71.1(2.80)	11.7(0.46)	6.4(0.25)
10	QC1-6-BM10-D-	0.5	22	78.7(3.10)	16.8(0.66)	6.9(0.27)
12	QC1-8-BM12-D-	1.5	24	92.2(3.63)	19.6(0.77)	6.6(0.26)

Bodies



Tube Fitting

Tube Size	Basic Ordering Number	H	L
in.		in.(mm)	in.(mm)
1/8	QC1-4-F2-B-	0.91(23.1)	2.26(57.4)
1/4	QC1-4-F4-B-	0.91(23.1)	2.30(58.4)
3/8	QC1-6-F6-B-	1.03(26.2)	2.58(65.5)
1/2	QC1-8-F8-B-	1.21(30.7)	3.09(78.5)
mm		mm(in.)	mm(in.)
6	QC1-4-M6-B-	23.1(0.91)	58.4(2.30)
10	QC1-6-M10-B-	26.2(1.03)	68.1(2.68)
12	QC1-8-M12-B-	30.7(1.21)	78.5(3.09)

Male NPT

NPT Size	Basic Ordering Number	H	L
		in.(mm)	in.(mm)
1/8	QC1-4-NPT2-B-	0.91(23.1)	2.01(51.1)
1/4	QC1-4-NPT4-B-	0.91(23.1)	2.16(54.9)
1/4	QC1-6-NPT4-B-	1.03(26.2)	2.38(60.5)
3/8	QC1-6-NPT6-B-	1.03(26.2)	2.38(60.5)
1/2	QC1-8-NPT8-B-	1.21(30.7)	2.97(75.4)

Female NPT

NPT Size	Basic Ordering Number	H	L
		in.(mm)	in.(mm)
1/8	QC1-4-FNPT2-B-	0.91(23.1)	2.16(54.9)
1/4	QC1-4-FNPT4-B-	0.91(23.1)	2.42(61.5)
1/4	QC1-6-FNPT4-B-	1.03(26.2)	2.54(65.4)
3/8	QC1-6-FNPT6-B-	1.03(26.2)	2.57(65.3)
1/2	QC1-8-FNPT8-B-	1.21(30.7)	3.22(81.8)

Male BSPT

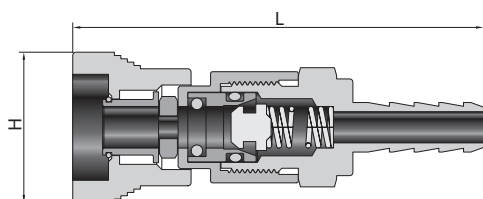
BSPT Size	Basic Ordering Number	H	L
		in.(mm)	in.(mm)
1/8	QC1-4-MBT2-B-	0.91(23.1)	2.01(51.1)
1/4	QC1-4-MB T4-B-	0.91(23.1)	2.16(54.9)
1/4	QC1-6-MB T4-B-	1.03(26.2)	2.38(60.5)
3/8	QC1-6-MB T6-B-	1.03(26.2)	2.38(60.5)
1/2	QC1-8-MB T8-B-	1.21(30.7)	2.97(75.4)

Female BSPT

BSPT Size	Basic Ordering Number	H	L
		in.(mm)	in.(mm)
1/8	QC1-4-FBT2-B-	0.91(23.1)	2.16(54.9)
1/4	QC1-4-FBT4-B-	0.91(23.1)	2.42(61.5)
1/4	QC1-6-FBT4-B-	1.03(26.2)	2.54(65.4)
3/8	QC1-6-FBT6-B-	1.03(26.2)	2.57(65.3)
1/2	QC1-8-FBT8-B-	1.21(30.7)	3.22(81.8)

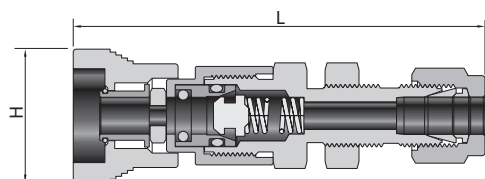
Male JIC (AN) 37° Flare

AN Tube Flare Size	Basic Ordering Number	H	L
in.		in.(mm)	in.(mm)
1/4	QC1-4-AN4-B-	0.91(23.1)	2.17(55.1)
3/8	QC1-6-AN6-B-	1.03(26.2)	2.41(61.2)
1/2	QC1-8-AN8-B-	1.21(30.7)	2.92(74.2)



Hose Connector

Hose Size	Basic Ordering Number	Flow Coefficient (Cv)	H	L
in.			in.(mm)	in.(mm)
1/4	QC1-4-HC4-B-	0.3	0.91(23.1)	2.41(61.2)
3/8	QC1-6-HC6-B-	1.5	1.03(26.2)	2.72(69.1)
1/2	QC1-8-HC8-B-	3.3	1.21(30.7)	3.20(81.3)



Bulkhead Tube Fitting

Tube Size	Basic Ordering Number	Flow Coefficient (Cv)	H	L	Min. Panel Hole	Max. Panel Thickness
in.			in.(mm)	in.(mm)	in.(mm)	in.(mm)
1/4	QC1-4-BF4-B-	0.4	0.91(23.1)	2.67(67.8)	0.47(11.9)	0.25(6.4)
3/8	QC1-6-BF6-B-	1.5	1.03(26.2)	2.98(75.7)	0.60(15.2)	0.27(6.9)
1/2	QC1-8-BF8-B-	3.3	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	QC1-4-BM6-B-	0.4	23.1(0.91)	67.8(2.67)	11.7(0.46)	6.4(0.25)
10	QC1-6-BM10-B-	1.5	26.2(1.03)	75.9(2.99)	16.8(0.66)	6.9(0.27)
12	QC1-8-BM12-B-	3.3	30.7(1.21)	90.4(3.56)	19.6(0.77)	6.6(0.26)

Keyed QC1 Series

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



QC1 Series Key Numbers and Sleeve Outside Diameters

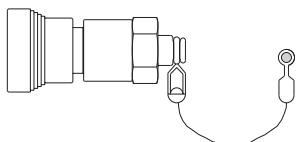
Key Number and Color	QC1-4		QC1-6		QC1-8	
	Body Sleeve	Stem Sleeve	Body Sleeve	Stem Sleeve	Body Sleeve	Stem Sleeve
	in.(mm)	in.(mm)	in.(mm)	in.(mm)	in.(mm)	in.(mm)
K1 black	0.96(24.4)	0.82(20.8)	1.13(28.7)	0.99(25.1)	1.26(32.0)	1.10(27.9)
K2 orange	0.99(25.1)	0.85(21.6)	1.16(29.5)	1.02(25.9)	1.29(32.8)	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)

❖ To order a Keyed QC1 Series, add key number (K1 to K8) as a prefix to the basic ordering number

Example: **QC1-4-F4-316-K2**

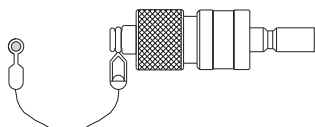
Protector

Stem Protector



Series	Basic Ordering Number
-4	QC1-4-SP-
-6	QC1-6-SP-
-8	QC1-8-SP-

Body Protector



Series	Basic Ordering Number
-4	QC1-4-BP-
-6	QC1-6-BP-
-8	QC1-8-BP-

- ❖ To order a protector, add material designator (316 or Brass) as a prefix to the basic ordering number
Example: **QC1-4-SP-316**
- ❖ To order a keyed protector, add material designator (316 or Brass) as a prefix and key designator from the table below as a suffix to the ordering number
Example: **QC1-4-BP-316-K1**

How to Order

QC1 — 6 — M10 — BD — 316					
Series	Size	End Connection Type	End Connection Size	Stem or Body	Body Material
QC1	4	FNPT Female NPT	4 1/4 in.	S Stem without valve remains open when uncoupled	316 316 S.S.
	6	NPT Male NPT	6 3/8 in. or 6 mm		316L 316L S.S.
	8	FBT Female BSPT	8 1/2 in. or 8 mm	D Stem with valve shuts off when uncoupled	304 304 S.S.
		MBT Male BSPT	10 5/8 in. or 10 mm		304L 304L S.S.
		MS Male Metric (for BG)	12 3/4 in. or 12 mm	B Body with valve	
		F Fractional Tube Fitting	14 M14 x 1.5		
		M Metric Tube Fitting	16 1 in. or 16 mm	BS Stem without valve +Body with valve	
		FT Fractional Tube Adapter	18 M18 x 1.5		
		MT Metric Tube Adapter	20 M20 x 1.5	BD Stem with valve +Body with valve	

Full-Flow Quick-Connects

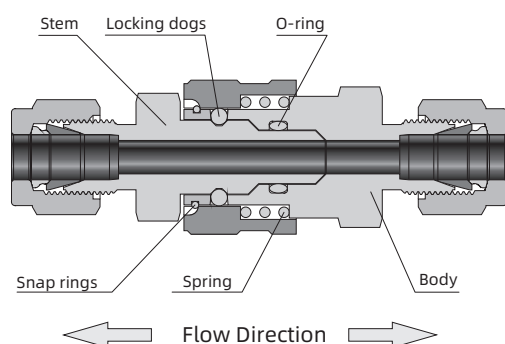
QC2 Series

Features

- ❖ Full flow without orifice restrictions
- ❖ Maximum working pressure up to 6000 psig (413 bar)
- ❖ Working temperature from -10°F to 400°F (-23°C to 204°C)
- ❖ O-ring is easily replaced without disassembling body
- ❖ Stainless steel



Structure



Materials of Construction

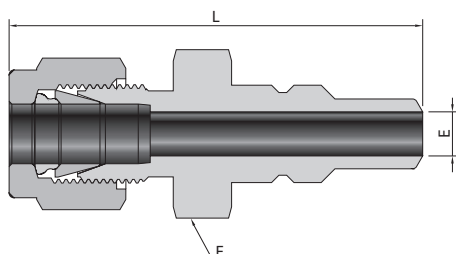
Component	Material	
	316 S.S.	Brass
Body, stem	316 S.S.	Brass C36000
O-rings	Fluorocarbon FKM	Buna N
Springs	316 S.S.	
Snap rings		
Locking ball		

Pressure-Temperature Ratings

Material	316 S.S.				Brass			
Series	-4 Series	-8 Series	-12 Series	-16 Series	-4 Series	-8 Series	-12 Series	-16 Series
Temperature °F (°C)	Pressure Rating psig (bar)							
Coupled								
-10 (-23)	6000 (413)	6000 (413)	4000 (275)	4000 (275)	4000 (275)	3000 (206)	2000 (137)	2000 (137)
70 (20)	6000 (413)	6000 (413)	4000 (275)	4000 (275)	4000 (275)	3000 (206)	2000 (137)	2000 (137)
250 (121)	100 (6.8)	100 (6.8)	100 (6.8)	100 (6.8)	100 (6.8)	100 (6.8)	100 (6.8)	100 (6.8)
400 (204)	100 (6.8)	100 (6.8)	100 (6.8)	100 (6.8)	100 (6.8)	100 (6.8)	100 (6.8)	100 (6.8)

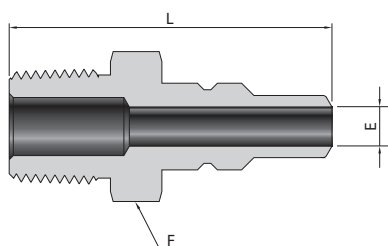
Dimensions

Stems



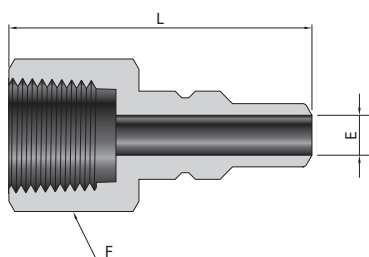
Tube Fitting

Tube Size	Basic Ordering Number	Flow Coefficient (Cv)	E	F	L
in.			in.(mm)	in.	in.(mm)
1/4	QC2-4-F4-S-	2.2	0.19(4.8)	9/16	1.77 (45.0)
3/8	QC2-4-F6-S-	2.8	0.24(6.1)	11/16	1.77 (45.0)
3/8	QC2-8-F6-S-	2.8	0.28(7.1)	7/8	1.88 (47.8)
1/2	QC2-8-F8-S-	13.0	0.41(10.4)	7/8	1.99 (50.5)
3/4	QC2-12-F12-S-	26.0	0.62(15.7)	1 1/16	2.15 (54.6)
1	QC2-16-F16-S-	45.0	0.88(22.4)	1 3/8	2.45 (62.2)
mm	Basic Ordering Number	Flow Coefficient (Cv)	(mm)in.	mm	(mm)in.
6	QC2-4-M6-S-	2.2	4.8(0.19)	15	45.0 (1.77)
10	QC2-8-M10-S-	2.8	7.1(0.28)	22	48.5 (1.91)
12	QC2-8-M12-S-	13.0	9.5(0.37)	22	51.3 (2.02)
20	QC2-12-M20-S-	26.0	15.7(0.62)	30	54.6 (2.15)
25	QC2-16-M25-S-	45.0	22.4(0.88)	36	63.5 (2.50)



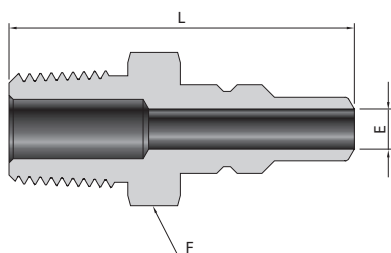
Male NPT

NPT Size	Basic Ordering Number	Flow Coefficient (Cv)	E	F	L
			in. (mm)	in.	in. (mm)
1/4	QC2-4-NPT4-S-	1.7	0.24 (6.1)	9/16	1.59 (40.4)
3/8	QC2-4-NPT6-S-	1.7	0.24 (6.1)	11/16	1.59 (40.4)
3/8	QC2-8-NPT6-S-	7.1	0.41 (10.4)	7/8	1.65 (41.9)
1/2	QC2-8-NPT8-S-	11.5	0.50 (12.7)	7/8	1.84 (46.7)
3/4	QC2-12-NPT12-S-	23.6	0.72 (18.3)	1 1/16	2.03 (51.6)
1	QC2-16-NPT16-S-	39.0	0.88 (22.4)	1 3/8	2.35 (59.7)



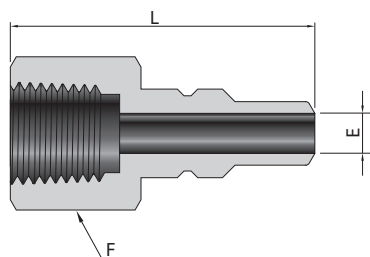
Female NPT

NPT Size	Basic Ordering Number	Flow Coefficient (Cv)	E	F	L
			in. (mm)	in.	in. (mm)
1/4	QC2-4-FNPT4-S-	1.7	0.24 (6.1)	3/4	1.60 (40.6)
3/8	QC2-4-FNPT6-S-	1.7	0.24 (6.1)	7/8	1.67 (42.4)
3/8	QC2-8-FNPT6-S-	7.1	0.41 (10.4)	1 1/16	1.59 (40.4)
1/2	QC2-8-FNPT8-S-	11.5	0.50 (12.7)	1 1/16	1.82 (46.2)
3/4	QC2-12-FNPT12-S-	23.6	0.72 (18.3)	1 5/16	2.08 (52.8)
1	QC2-16-FNPT16-S-	39.0	0.88 (22.4)	1 5/8	2.49 (63.2)



Male BSPT

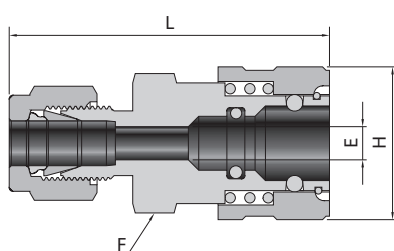
BSPT Size	Basic Ordering Number	Flow Coefficient (Cv)	E	F	L
			in. (mm)	in.	in. (mm)
1/4	QC2-4-MBT4-S-	1.7	0.24 (6.1)	9/16	1.59 (40.4)
3/8	QC2-4-MBT6-S-	1.7	0.24 (6.1)	11/16	1.59 (40.4)
3/8	QC2-8-MBT6-S-	7.1	0.41 (10.4)	7/8	1.65 (41.9)
1/2	QC2-8-MBT8-S-	11.5	0.50 (12.7)	7/8	1.84 (46.7)
3/4	QC2-12-MBT12-S-	23.6	0.72 (18.3)	1 1/16	2.03 (51.6)
1	QC2-16-MBT16-S-	39.0	0.88 (22.4)	1 3/8	2.35 (59.7)



Female BSPT

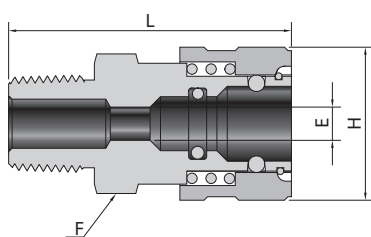
BSPT Size	Basic Ordering Number	Flow Coefficient (Cv)	E	F	L
			in. (mm)	in.	in. (mm)
1/4	QC2-4-FBT4-S-	1.7	0.24 (6.1)	3/4	1.60 (40.6)
3/8	QC2-4-FBT6-S-	1.7	0.24 (6.1)	7/8	1.67 (42.4)
3/8	QC2-8-FBT6-S-	7.1	0.41 (10.4)	1 1/16	1.59 (40.4)
1/2	QC2-8-FBT8-S-	11.5	0.50 (12.7)	1 1/16	1.82 (46.2)
3/4	QC2-12-FBT12-S-	23.6	0.72 (18.3)	1 5/16	2.08 (52.8)
1	QC2-16-FBT16-S-	39.0	0.88 (22.4)	1 5/8	2.49 (63.2)

Bodies



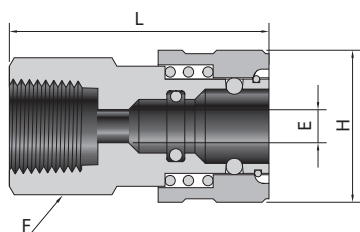
Tube Fitting

Tube Size	Basic Ordering Number	E	F	H	L
in.		in. (mm)	in.	in. (mm)	in. (mm)
1/4	QC2-4-F4-B-	0.19 (4.8)	11/16	0.87 (22.1)	1.80 (45.7)
3/8	QC2-4-F6-B-	0.28 (7.1)	11/16	0.87 (22.1)	1.81 (46.0)
3/8	QC2-8-F6-B-	0.28 (7.1)	1 1/16	1.30 (33.0)	2.17 (55.1)
1/2	QC2-8-F8-B-	0.47 (11.9)	1 1/16	1.30 (33.0)	2.23 (56.6)
3/4	QC2-12-F12-B-	0.62 (15.7)	1 1/2	1.66 (42.2)	2.45 (62.2)
1	QC2-16-F16-B-	0.88 (22.4)	1 11/16	1.88 (47.8)	2.75 (69.9)
mm	Basic Ordering Number	(mm) in.	mm	(mm) in.	(mm) in.
6	QC2-4-M6-B-	4.8 (0.19)	18	22.1 (0.87)	45.7 (1.80)
10	QC2-8-M10-B-	7.1 (0.28)	27	33.0 (1.30)	55.9 (2.20)
12	QC2-8-M12-B-	10.4 (0.41)	27	33.0 (1.30)	57.4 (2.26)
20	QC2-12-M20-B-	15.9 (0.63)	38	42.2 (1.66)	63.5 (2.50)
25	QC2-16-M25-B-	21.8 (0.86)	46	47.8 (1.88)	70.0 (2.76)



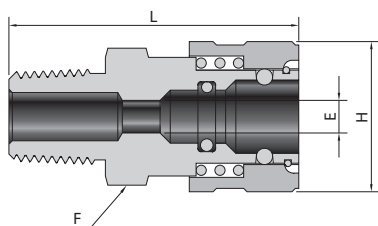
Male NPT

NPT Size	Basic Ordering Number	E	F	H	L
		in. (mm)	in.	in. (mm)	in. (mm)
1/4	QC2-4-NPT4-B-	0.25 (6.4)	11/16	0.87 (22.1)	1.57 (39.9)
3/8	QC2-4-NPT6-B-	0.37 (9.4)	11/16	0.87 (22.1)	1.57 (39.9)
3/8	QC2-8-NPT6-B-	0.41 (10.4)	1 1/16	1.30 (33.0)	1.83 (46.5)
1/2	QC2-8-NPT8-B-	0.50 (12.7)	1 1/16	1.30 (33.0)	2.08 (52.8)
3/4	QC2-12-NPT12-B-	0.72 (18.3)	1 1/2	1.66 (42.2)	2.33 (59.2)
1	QC2-16-NPT16-B-	0.88 (22.4)	1 11/16	1.88 (47.8)	2.65 (67.3)



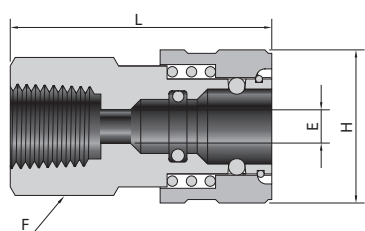
Female NPT

NPT Size	Basic Ordering Number	E	F	H	L
		in. (mm)	in.	in. (mm)	in. (mm)
1/4	QC2-4-FNPT4-B-	0.38 (9.7)	3/4	0.87 (22.1)	1.50 (38.1)
3/8	QC2-4-FNPT6-B-	0.38 (9.7)	7/8	0.87 (22.1)	1.63 (41.4)
3/8	QC2-8-FNPT6-B-	0.59 (15.0)	1 1/16	1.30 (33.0)	1.73 (43.9)
1/2	QC2-8-FNPT8-B-	0.63 (16.0)	1 1/16	1.30 (33.0)	1.73 (43.9)
3/4	QC2-12-FNPT12-B-	0.88 (22.4)	1 1/2	1.66 (42.2)	1.89 (48.0)
1	QC2-16-FNPT16-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	QC2-4-MBT4-B-	0.25(6.4)	11/16	0.87(22.1)	1.57(39.9)
3/8	QC2-4-MBT6-B-	0.37(9.4)	11/16	0.87(22.1)	1.57(39.9)
3/8	QC2-8-MBT6-B-	0.41(10.4)	1 1/16	1.30(33.0)	1.83(46.5)
1/2	QC2-8-MBT8-B-	0.50(12.7)	1 1/16	1.30(33.0)	2.08(52.8)
3/4	QC2-12-MBT12-B-	0.72(18.3)	1 1/2	1.66(42.2)	2.33(59.2)
1	QC2-16-MBT16-B-	0.88(22.4)	1 11/16	1.88(47.8)	2.65(67.3)

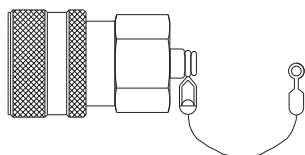


Female BSPT

BSPT Size	Basic Ordering Number	E	F	H	L
		in.(mm)	in.	in.(mm)	in.(mm)
1/4	QC2-4-FBT4-B-	0.38(9.7)	3/4	0.87(22.1)	1.50(38.1)
3/8	QC2-4-FBT6-B-	0.38(9.7)	7/8	0.87(22.1)	1.63(41.4)
3/8	QC2-8-FBT6-B-	0.59(15.0)	1 1/16	1.30(33.0)	1.73(43.9)
1/2	QC2-8-FBT8-B-	0.63(16.0)	1 1/16	1.30(33.0)	1.73(43.9)
3/4	QC2-12-FBT12-B-	0.88(22.4)	1 1/2	1.66(42.2)	1.89(48.0)
1	QC2-16-FBT16-B-	1.06(26.9)	1 11/16	1.88(47.8)	2.12(53.8)

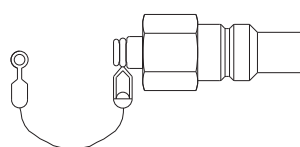
Protector

Stem Protector



Series	Basic Ordering Number
-4	QC2-4-SP-
-8	QC2-8-SP-
-12	QC2-12-SP-
-16	QC2-16-SP-

Body Protector



Series	Basic Ordering Number
-4	QC2-4-BP-
-8	QC2-8-BP-
-12	QC2-12-BP-
-16	QC2-16-BP-

❖ To order a protector, add material designator (316 or Brass) as a prefix to the basic ordering number.

Example: **QC2-4-SP-316**

How to Order

QC2 — 8 — F8 — BS — 316					
Series	Size	End Connection Type	End Connection Size	Stem or Body	Body Material
QC2	4	FNPT Female NPT	4 1/4 in.	S Stem	316 316 S.S.
		NPT Male NPT	6 3/8 in. or 6 mm	B Body	316L 316L S.S.
	8	FBT Female BSPT	8 1/2 in. or 8 mm	BS Stem + Body	304 304 S.S.
		MBT Male BSPT	10 5/8 in. or 10 mm		304L 304L S.S.
	12	FMS Female Metric	12 3/4 in. or 12 mm		
		MS Male Metric (for BG)	14 M14 x 1.5		
		F Fractional Tube Fitting	16 1 in. or 16 mm		
		M Metric Tube Fitting			
		MT Metri Tube Adapter			
		FT Fractional Tube Adapter			

Miniature Quick-Connects

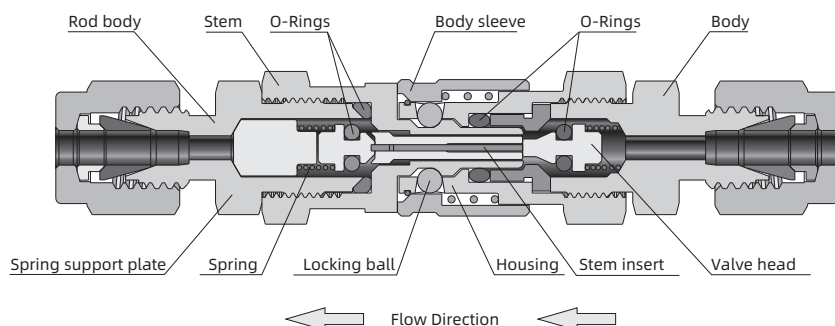
QC3 Series

Features

- ❖ Maximum working pressure up to 4000 psig (275 bar)
- ❖ Working temperature from -50°F to 500°F (-45°C to 260°C)
- ❖ Maximum Flow Rate: 1 u.s.gal/min (3.8L / min) at 70°F (20°C) (SESO and Full Flow Body)
- ❖ Spillage and Air Inclusion: 0.1 cm³ (standard DESO and Body)



Structure



Materials of Construction

Component	Material	
	Stainless Steel	Brass
Body Rod body Stem Spring support plate Valve head Stem insert	316.S.S/ASTM A479	C36000 ASTM B16
O-Rings	Fluorocarbon FKM Ethylene Propylene Perfluorocarbon FFKM	Buna N
Housing Body sleeve	316.S.S/ASTM A479	C36000 ASTM B16
Locking ball	440C/ASTM A276	
Snap rings Springs	304.S.S/ASTM A313	
Lubricants	PTFE-based	
Lubricants	Silicone-based	

Pressure-Temperature Ratings

Material Science	316 Stainless Steel			Brass
O-Ring Material	Fluorocarbon Rubber(FKM)	Ethylene Propylene	Perfluorocarbon FFKM	Buna N
Temperature °F(°C)	Rated Pressure psi(bar)			
Coupled				
-50(-45)	——	4000(275)	——	——
0(-17)	——	4000(275)	——	2000(137)
10(-12)	4000(275)	4000(275)	——	2000(137)
40(4)	4000(275)	4000(275)	4000(275)	2000(137)
100(37)	4000(275)	4000(275)	4000(275)	2000(137)
150(65)	3500(241)	3500(241)	3500(241)	1300(89.5)
200(93)	2800(192)	2800(192)	2800(192)	700(48.0)
250(121)	2100(144)	2100(144)	2100(144)	200(13.7)
300(148)	1400(96.4)	1400(96.4)	1400(96.4)	——
350(176)	800(55.1)	——	800(55.1)	——
400(204)	200(13.7)	——	200(13.7)®	——
500(260)	——	——	150(10.3)®	——
Uncoupled and When Coupling and Uncoupling				
70(20)	100(6.8)			

① silicone-based lubricant

② PTFE-based lubricant

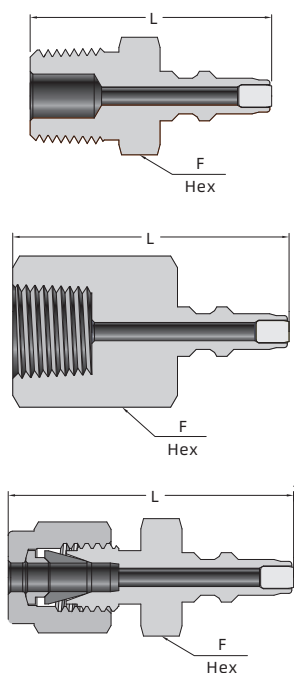
Sealing Ring Options

❖ All Quick-connects default FKM sealing ring. If you choose other sealing rings, please add Designator after order number.
For example: **QC3-F2-BD-316-E**

Sealing Ring Material	Designator
Ethylene Propylene	-E
Perfluorocarbon FFKM	-Z
Buna N	-N

Dimensions

Single-End Shutoff Stems (SESO)



Male NPT

NPT Size	Basic Ordering Number	Flow Coefficient (Cv)	F	L
in.			in.	in.(mm)
1/16	QC3-NPT1-S-	0.06	7/16	1.04(26.4)
1/8	QC3-NPT2-S-	0.06	7/16	1.04(26.4)

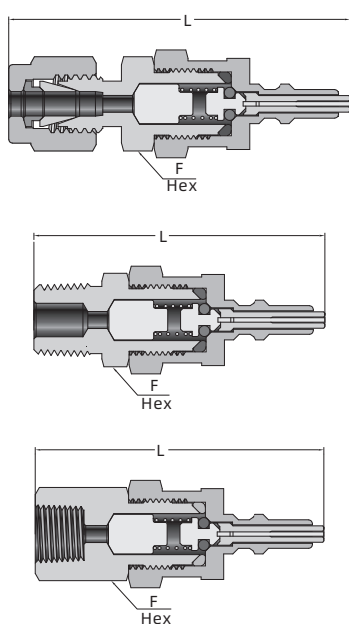
Female NPT

NPT Size	Basic Ordering Number	Flow Coefficient (Cv)	F	L
in.			in.	in.(mm)
1/16	QC3-FNPT1-S-	0.06	7/16	1.03(26.2)
1/8	QC3-FNPT2-S-	0.06	9/16	1.19(30.2)

Ferrule Fitting

Ferrule Size	Basic Ordering Number	Flow Coefficient (Cv)	F	L
in.			in.	in.(mm)
1/16	QC3-F1-S-	0.06	7/16	1.18(30.0)
1/8	QC3-F2-S-	0.06	7/16	1.29(32.8)

Double-End Shutoff Stems (DESO)



Ferrule Fitting

Ferrule Size	Basic Ordering Number	Flow Coefficient (Cv)	F	L
in.			in.	in.(mm)
1/16	QC3-F1-D-	0.05	7/16	1.64(41.7)
1/8	QC3-F2-D-	0.05	7/16	1.83(46.5)

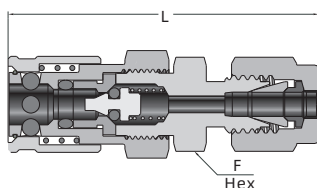
Male NPT

NPT Size	Basic Ordering Number	Flow Coefficient (Cv)	F	L
in.			in.	in.(mm)
1/16	QC3-NPT1-D-	0.05	7/16	1.61(40.9)
1/8	QC3-NPT2-D-	0.05	7/16	1.61(40.9)

Female NPT

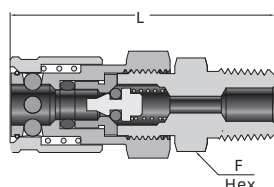
NPT Size	Basic Ordering Number	Flow Coefficient (Cv)	F	L
in.			in.	in.(mm)
1/16	QC3-FNPT1-D-	0.05	7/16	1.61(40.9)
1/8	QC3-FNPT2-D-	0.05	9/16	1.81(46.0)

Bodies



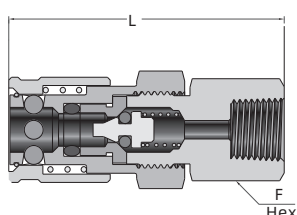
Ferrule Fitting

Ferrule Size in.	Basic Ordering Number	F in.	L in.(mm)
1/16	QC3-F1-B-	7/16	1.48(37.6)
1/8	QC3-F2-B-	7/16	1.67(42.4)



Male NPT

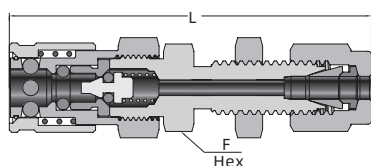
NPT Size in.	Basic Ordering Number	F in.	L in.(mm)
1/16	QC3-NPT1-B-	7/16	1.42(36.1)
1/8	QC3-NPT2-B-	7/16	1.44(36.6)



Female NPT

NPT Size in.	Basic Ordering Number	F in.	L in.(mm)
1/16	QC3-FNPT1-B-	7/16	1.42(36.1)
1/8	QC3-FNPT2-B-	9/16	1.62(41.1)

Bodies (Bulkhead Tube Fitting)



Ferrule Fitting

Ferrule Size in.	Basic Ordering Number	F in.	L in.(mm)	Min.Panel Hole in.(mm)	Max.Panel Thickness in.(mm)
1/8	QC3-BF2-B-	7/16	2.09(53.1)	0.35(8.8)	0.25(6.4)

How to Order

QC3 — FNPT2 — BD — 316

Series	End Connection Type	End Connection Size	Stem or Body	Body Material
QC3	FNPT Female NPT	1 1/16 in.	S Stem without valve remains open when uncoupled	316 316 S.S.
	FBT Female BSPT	2 1/8 in.	D Stem with valve shuts off when uncoupled	316L 316L S.S.
	F Fractional Tube Fitting		B Body with valve	304 304 S.S.
			BS Stem without valve + Body with valve	304L 304L S.S.
			BD Stem with valve + Body with valve	

High performance Quick-Connects

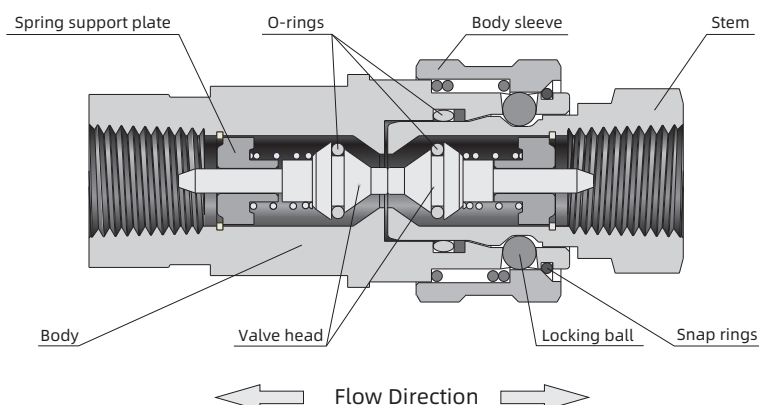
QC4 Series

Features

- ❖ Maximum working pressure up to 5000 psig (344.8 bar)
- ❖ Working temperature from -50°F to 525°F (-45°C to 274°C)
- ❖ Stainless steel material options
- ❖ Alternative seal materials available
- ❖ Field of use:
 - Industrial hydraulic lines
 - Food and chemical processing
 - Water and coolant lines
 - Mobile equipment
 - May be used with some gases



Structure



Materials of Construction

Component	Material	
	316 S.S.	Brass
Body Stem Spring support plate Valve head Stem insert	316.S.S./ASTM A479	C36000 ASTM B16
O-Rings	Fluorocarbon FKM Ethylene Propylene Neoprene Perfluorocarbon FFKM	Buna N
Body sleeve	316.S.S./ASTM A479	C36000 ASTM B16
Locking ball	440C/ASTM A276	
Snap rings Springs	304.S.S./ASTM A313	
Lubricants	PTFE-based	
Lubricants	Silicone-based	

Pressure Ratings

Body Size	Rated Pressure psig (bar)	
	316 S.S.	Brass
1/8	5000(345)	3000(207)
1/4	5000(345)	3700(255)
3/8	5000(345)	2700(186)
1/2	5000(345)	3500(241)
3/4	3000(207)	2200(152)
1	3000(207)	1500(103)

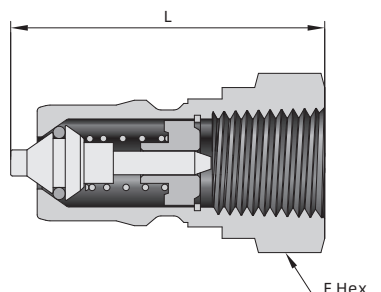
Sealing Ring Options

- ❖ All Quick-connects default FKM sealing ring. If you choose other sealing rings, please add Designator after order number.
For example: **QC4-4-FNPT4-B-316-E**

O-Rings	Temperature Range	Designator
Buna N	-10 °F to 250 °F (-23 °C to 121 °C)	-N
Fluorocarbon (FKM)	-10 °F to 400 °F (-23 °C to 204 °C)	None by default
Ethylene Propylene	-50 °F to 300 °F (-45 °C to 148 °C)	-E
Neoprene	-40 °F to 250 °F (-40 °C to 121 °C)	-N
Fluorocarbon (FFKM)	0 °F to 525 °F (-18 °C to 274 °C)	-Z

Dimensions

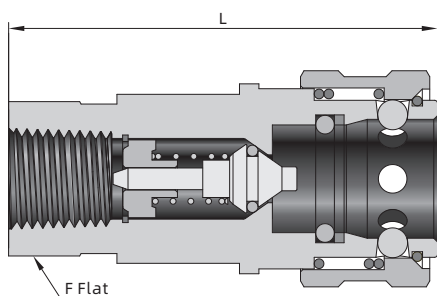
Stems



Female NPT or Female BSPT

Size in.	Basic Ordering Number	Flow Coefficient (Cv)	F in.(mm)	L in.(mm)
1/8	QC4-2-FNPT2-D- QC4-2-FBT2-D-	0.2	9/16 (14.29)	1.26 (32)
1/4	QC4-4-FNPT4-D- QC4-4-FBT4-D-	0.4	3/4 (19.05)	1.54 (39.1)
3/8	QC4-6-FNPT6-D- QC4-6-FBT6-D-	1.1	7/8 (22.23)	1.66 (42.1)
1/2	QC4-8-FNPT8-D- QC4-8-FBT8-D-	1.8	1 1/8 (28.58)	1.94 (49.3)
3/4	QC4-12-FNPT12-D- QC4-12-FBT12-D-	4.8	1 3/8 (34.93)	2.43 (61.7)
1	QC4-16-FNPT16-D- QC4-16-FBT16-D-	6.2	1 5/8 (41.28)	2.91 (73.9)

Bodies



Female NPT or Female BSPT

Size in.	Basic Ordering Number	F in.(mm)	L in.(mm)
1/8	QC4-2-FNPT2-B- QC4-2-FBT2-B-	11/16 (17.46)	1.9 (48.3)
1/4	QC4-4-FNPT4-B- QC4-4-FBT4-B-	13/16 (20.64)	2.26 (57.4)
3/8	QC4-6-FNPT6-B- QC4-6-FBT6-B-	7/8 (22.23)	2.49 (63.2)
1/2	QC4-8-FNPT8-B- QC4-8-FBT8-B-	1 1/8 (28.58)	2.87 (72.9)
3/4	QC4-12-FNPT12-B- QC4-12-FBT12-B-	1 5/16 (33.34)	3.56 (90.4)
1	QC4-16-FNPT16-B- QC4-16-FBT16-B-	1 5/8 (41.28)	4.18 (106.2)

How to Order

QC4 — 4 — FNPT4 — BD — 316

Series	Size	End Connection Type	End Connection Size	Stem or Body	Body Material
QC4	2	FNPT Female NPT	4 1/4 in.	D Stem with valve shuts off when uncoupled	316 316 S.S.
	4	FBT Female BSPT	6 3/8 in.	B Body with valve shuts off when uncoupled	316L 316L S.S.
	6		8 1/2 in.		304 304 S.S.
	8		12 3/4 in.	BD Stem with valve + Body with valve	304L 304L S.S.
	12		16 1 in.		
	16				