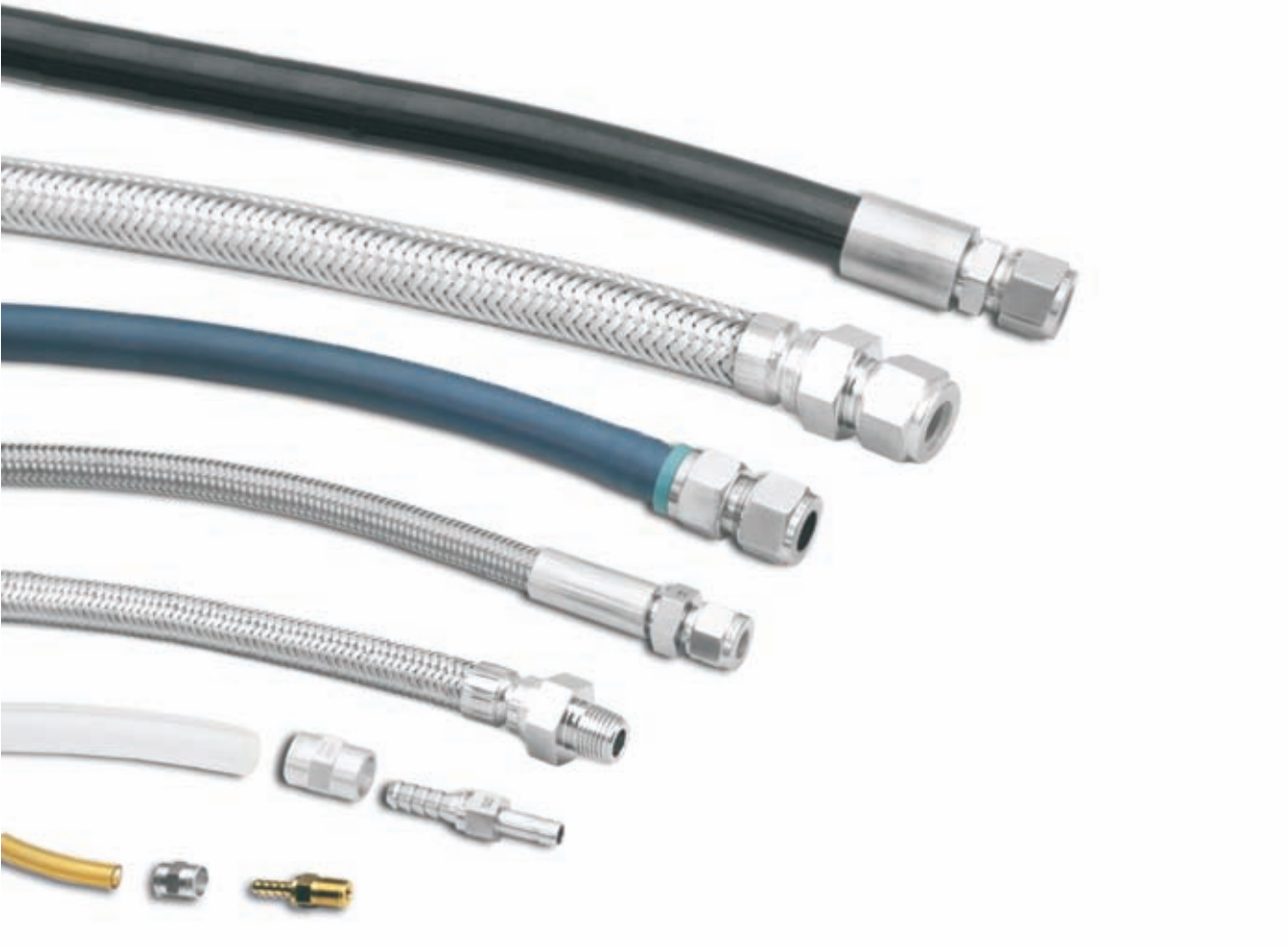


Hoses and Connectors

MH, MM, PS, MP, TH and HC Series



Hoses
Quick-connects

Contents

Metal Flexible Hoses

MH, MM Series



D-04

PTFE-lined, Stainless Steel Braided Hoses

PS Series



D-10

Multipurpose Push-on Hoses

MP Series



D-14

Thermoplastic Hoses

TH Series



D-18

Hose Connectors and Sleeves

HC Series



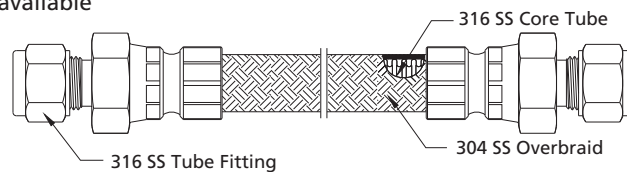
D-20

Metal Flexible Hoses

MH, MM Series

Features

- ⦿ Core tube and fitting material: 316 stainless steel
- ⦿ Overbraid material: 304 stainless steel (316 SS available)
- ⦿ Vacuum and positive pressure applications
- ⦿ Working pressure up to: 3100 psig (213 bar)
- ⦿ Hose size: 1/4" to 2"
- ⦿ Working temperature: -325°F to 800°F (-200°C to 426°C)
- ⦿ End connections:
 - 1/4 to 2 thread
 - 1/4" to 2" and 6 mm to 22 mm tube fitting
- ⦿ Welded fitting-to-hose construction to ensure reliable seal
- ⦿ Standard and custom length available



Hose Technical Data (MH Series)

| Nominal Hose Size | Inside Diameter | Min. Bend Radius | | Temperature Range | Working Pressure at 70°F (20°C) | Burst Pressure at 70°F (20°C) | Hose Series |
|-------------------|-----------------|------------------|------------|------------------------------|---------------------------------|-------------------------------|-------------|
| | | Static | Dynamic | | | | |
| in. (mm) | in. (mm) | in. (mm) | in. (mm) | °F (°C) | psig (bar) | psig (bar) | |
| 1/4 (6.4) | 0.28 (7.1) | 2.25 (57.2) | 10.0 (254) | -325 to 800 (-200 to 426) | 3100 (213) | 12400 (854) | MH4 |
| 3/8 (9.7) | 0.42 (10.6) | 3.00 (76.2) | 12.0 (305) | | 2000 (137) | 8000 (551) | MH6 |
| 1/2 (12.7) | 0.53 (13.5) | 4.50 (114) | 16.0 (406) | | 1800 (124) | 7200 (496) | MH8 |
| 3/4 (19.0) | 0.80 (20.3) | 6.00 (152) | 17.0 (432) | | 1500 (103) | 6000 (413) | MH12 |
| 1 (25.4) | 1.03 (26.0) | 6.75 (171) | 20.0 (508) | | 1200 (82.6) | 4800 (330) | MH16 |
| 1 1/4 (31.8) | 1.30 (33.0) | 8.86 (225) | 23.0 (584) | | 950 (65.4) | 3800 (261) | MH20 |
| 1 1/2 (38.1) | 1.53 (38.9) | 11.0 (280) | 26.0 (660) | | 900 (62.0) | 3600 (248) | MH24 |
| 2 (50.8) | 2.05 (52.1) | 13.8 (350) | 32.0 (813) | | 500 (34.4) | 2000 (137) | MH32 |

Hose Technical Data (MM Series)

| Nominal Hose Size | Inside Diameter | Min. Bend Radius | | Temperature Range | Working Pressure at 70°F (20°C) | Burst Pressure at 70°F (20°C) | Hose Series |
|-------------------|-----------------|------------------|-------------|------------------------------|---------------------------------|-------------------------------|-------------|
| | | Static | Dynamic | | | | |
| in. (mm) | in. (mm) | in. (mm) | in. (mm) | °F (°C) | psig (bar) | psig (bar) | |
| 1/4 (6.4) | 0.25 (6.4) | 1.38 (35) | 8.66 (220) | -325 to 800 (-200 to 426) | 1600 (110) | 6400 (440) | MM4 |
| 3/8 (9.7) | 0.38 (9.5) | 2.36 (60) | 10.40 (264) | | 1470 (101) | 6000 (413) | MM6 |
| 1/2 (12.7) | 0.50 (12.7) | 2.95 (75) | 11.89 (302) | | 1110 (76.4) | 4500 (310) | MM8 |
| 3/4 (19.0) | 0.75 (19.0) | 3.54 (90) | 13.58 (345) | | 860 (59.2) | 3500 (241) | MM12 |
| 1 (25.4) | 1.00 (25.4) | 4.13 (105) | 15.00 (381) | | 680 (46.8) | 2680 (184) | MM16 |
| 1 1/4 (31.8) | 1.25 (31.8) | 4.72 (120) | 16.22 (412) | | 680 (46.8) | 2600 (179) | MM20 |
| 1 1/2 (38.1) | 1.50 (38.1) | 5.51 (140) | 16.89 (429) | | 520 (35.8) | 2200 (151) | MM24 |
| 2 (50.8) | 2.00 (50.8) | 6.30 (160) | 18.43 (468) | | 450 (31.0) | 1800 (124) | MM32 |

Testing

Every FITOK metal flexible hose assembly is factory tested with helium to a maximum leak rate of 1×10^{-5} std cm^3/s .

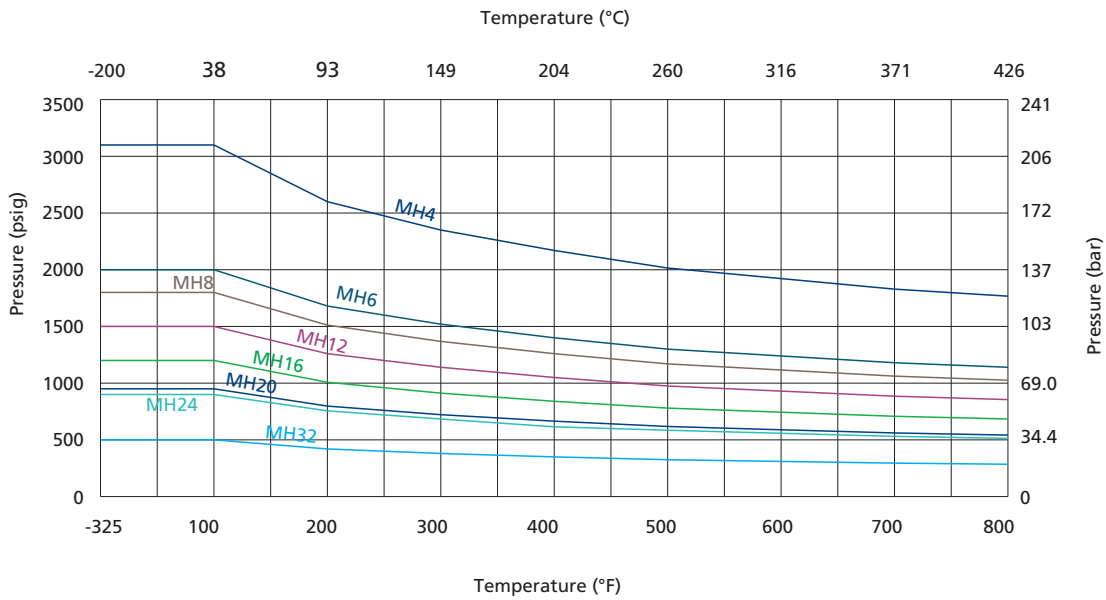
Cleaning and Packaging

FITOK metal flexible hose components are cleaned in accordance with FITOK *Standard Cleaning and Packaging Process (FC-01)* for general industrial procedures.

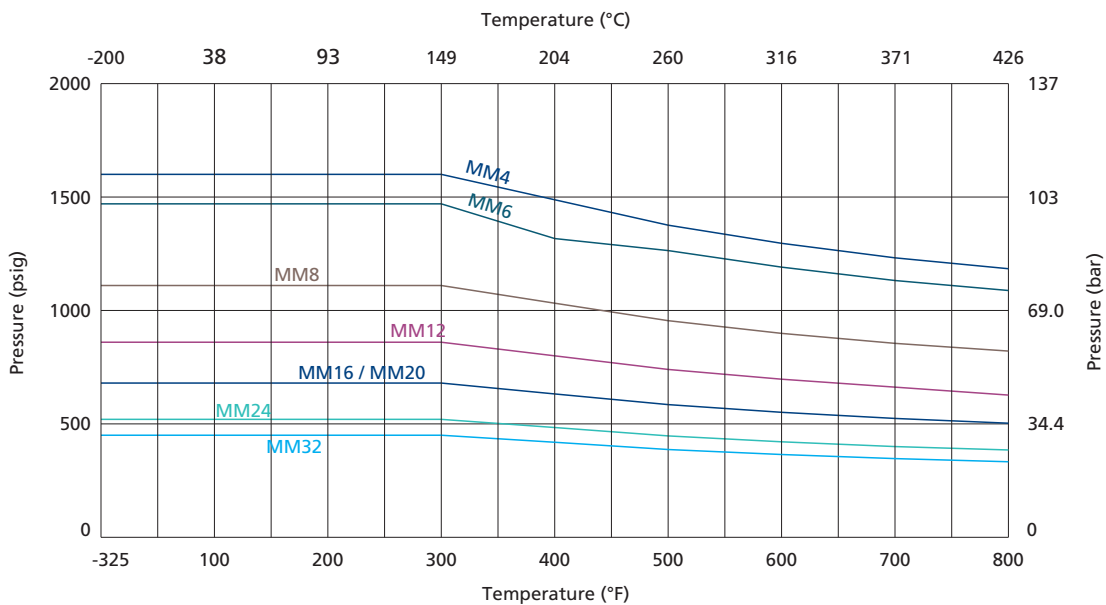
Shorter hoses are packed in cartons with suitable protective material, longer hoses are coiled, bagged and boxed or crated.

Pressure vs. Temperature

MH series



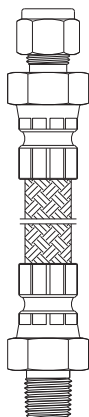
MM series



When pulsating, surge, or shock pressures exist, the peak pressure in the system should not exceed 50% of the rated working pressure of the hose.

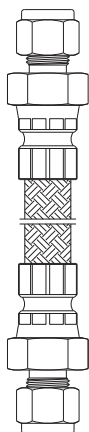
Standard Assemblies

Tube Fitting to Male NPT End



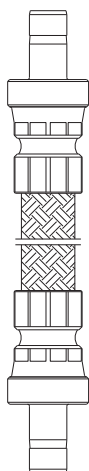
| Nominal Hose Size | Tube Fitting Size | NPT Size | Hose Series | Overall Length | Ordering Number | Minimum Inside Diameter | Maximum Outside Dimension |
|-------------------|-------------------|----------|-------------|----------------|-----------------------|-------------------------|---------------------------|
| | | | | in. (mm) | | in. (mm) | in. (mm) |
| 1/4 | 1/4 | 1/4 | MH4 | 12 (305) | SS-MH4-FL4-NS4-F12 | 0.19 (4.8) | 0.94 (23.8) |
| | | | MM4 | 36 (914) | SS-MM4-FL4-NS4-F36 | 0.19 (4.8) | 0.87 (22.0) |
| 3/8 | 3/8 | 3/8 | MH6 | 18 (457) | SS-MH6-FL6-NS6-F18 | 0.28 (7.1) | 1.09 (27.7) |
| | | | MM6 | 36 (914) | SS-MM6-FL6-NS6-F36 | 0.28 (7.1) | 1.01 (25.7) |
| 1/2 | 1/2 | 1/2 | MH8 | 18 (457) | SS-MH8-FL8-NS8-F18 | 0.41 (10.4) | 1.23 (31.3) |
| | | | MM8 | 48 (1220) | SS-MM8-FL8-NS8-F48 | 0.41 (10.4) | 1.23 (31.3) |
| 3/4 | 3/4 | 3/4 | MH12 | 18 (457) | SS-MH12-FL12-NS12-F18 | 0.66 (16.0) | 1.74 (44.2) |
| | | | MM12 | 48 (1220) | SS-MM12-FL12-NS12-F48 | 0.66 (16.0) | 1.59 (40.5) |
| 1 | 1 | 1 | MH16 | 24 (610) | SS-MH16-FL16-NS16-F24 | 0.88 (22.4) | 1.82 (46.3) |

Tube Fitting End



| Nominal Hose Size | Tube Fitting Size | Hose Series | Overall Length | Ordering Number | Minimum Inside Diameter | Maximum Outside Dimension |
|-------------------|-------------------|-------------|----------------|------------------|-------------------------|---------------------------|
| | | | in. (mm) | | in. (mm) | in. (mm) |
| 1/4 | 1/4 | MH4 | 12 (305) | SS-MH4-FL4-F12 | 0.19 (4.8) | 0.94 (23.8) |
| | | MM4 | 36 (914) | SS-MM4-FL4-F36 | 0.19 (4.8) | 0.87 (22.0) |
| 3/8 | 3/8 | MH6 | 18 (457) | SS-MH6-FL6-F18 | 0.28 (7.1) | 1.09 (27.7) |
| | | MM6 | 36 (914) | SS-MM6-FL6-F36 | 0.28 (7.1) | 1.01 (25.7) |
| 1/2 | 1/2 | MH8 | 18 (457) | SS-MH8-FL8-F18 | 0.41 (10.4) | 1.23 (31.3) |
| | | MM8 | 48 (1220) | SS-MM8-FL8-F48 | 0.41 (10.4) | 1.23 (31.3) |
| 3/4 | 3/4 | MH12 | 18 (457) | SS-MH12-FL12-F18 | 0.66 (16.0) | 1.74 (44.2) |
| | | MM12 | 48 (1220) | SS-MM12-FL12-F48 | 0.66 (16.0) | 1.59 (40.5) |
| 1 | 1 | MH16 | 24 (610) | SS-MH16-FL16-F24 | 0.88 (22.4) | 1.82 (46.3) |

Tube Adapter End

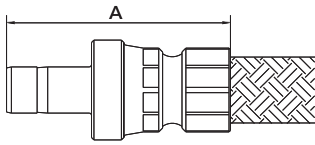


| Nominal Hose Size | Tube Adapter Size | Hose Series | Overall Length | Ordering Number | Minimum Inside Diameter | Maximum Outside Dimension |
|-------------------|-------------------|-------------|----------------|-----------------|-------------------------|---------------------------|
| | | | in. (mm) | | in. (mm) | in. (mm) |
| 1/4 | 1/4 | MH4 | 12 (305) | SS-MH4-FT4-F12 | 0.16 (4.1) | 0.81 (20.6) |
| | | MM4 | 36 (914) | SS-MM4-FT4-F36 | 0.16 (4.1) | 0.76 (19.2) |
| 3/8 | 3/8 | MH6 | 12 (305) | SS-MH6-FT6-F12 | 0.27 (6.9) | 1.01 (25.6) |
| | | MM6 | 36 (914) | SS-MM6-FT6-F36 | 0.27 (6.9) | 0.91 (23.1) |

1. All dimensions are for reference only and are subject to change. For dimensions not shown above, please contact FITOK Group or our authorized distributors.
2. Types listed are standard. Other types are available upon request.

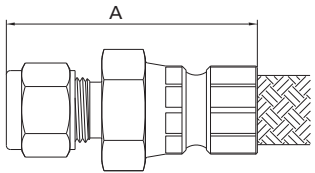
End Connections

Tube Adapters

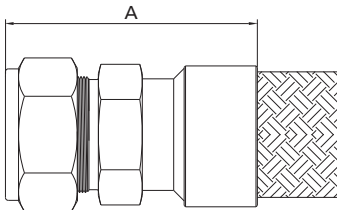


| Tube Adapter Size | Nominal Hose Size | End Connection Designator | Dimensions | | |
|-------------------|-------------------|---------------------------|-------------|-------------------------|---------------------------|
| | | | A | Minimum Inside Diameter | Maximum Outside Dimension |
| in. | in. | | in. (mm) | | |
| 1/4 | 1/4 | FT4 | 1.76 (44.7) | 0.16 (4.1) | 0.81 (20.6) |
| 3/8 | 3/8 | FT6 | 1.82 (46.2) | 0.27 (6.9) | 1.01 (25.6) |
| 1/2 | 1/2 | FT8 | 2.22 (56.4) | 0.37 (9.4) | 1.23 (31.3) |
| 3/4 | 3/4 | FT12 | 2.35 (59.7) | 0.58 (14.7) | 1.53 (38.8) |
| 1 | 1 | FT16 | 2.69 (68.3) | 0.80 (20.3) | 1.82 (46.3) |
| mm | in. | — | mm (in.) | | |
| 6 | 1/4 | MT6 | 44.4 (1.75) | 4.1 (0.16) | 20.6 (0.81) |
| 10 | 3/8 | MT10 | 47.0 (1.85) | 7.1 (0.28) | 25.6 (1.01) |
| 12 | 1/2 | MT12 | 57.2 (2.25) | 8.9 (0.35) | 31.3 (1.23) |

Tube Fittings



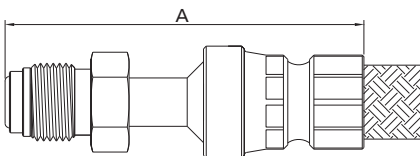
Automatic Weld Style-1 in. and Under



Manual Weld Style-Over 1 in.

| Tube Fitting Size | Nominal Hose Size | End Connection Designator | Dimensions | | |
|-------------------|-------------------|---------------------------|-------------|-------------------------|---------------------------|
| | | | A | Minimum Inside Diameter | Maximum Outside Dimension |
| in. | in. | | in. (mm) | | |
| 1/4 | 1/4 | FL4 | 1.94 (49.3) | 0.19 (4.8) | 0.94 (23.8) |
| 3/8 | 1/4 | FL6 | 2.00 (50.8) | 0.28 (7.1) | 0.94 (23.8) |
| 3/8 | 3/8 | FL6 | 2.02 (51.3) | 0.28 (7.1) | 1.09 (27.7) |
| 1/2 | 1/2 | FL8 | 2.24 (56.9) | 0.41 (10.4) | 1.23 (31.3) |
| 5/8 | 1/2 | FL10 | 2.27 (57.7) | 0.50 (12.7) | 1.23 (31.3) |
| 3/4 | 3/4 | FL12 | 2.35 (59.7) | 0.63 (16.0) | 1.74 (44.2) |
| 1 | 1 | FL16 | 2.64 (67.1) | 0.88 (22.4) | 1.82 (46.3) |
| 1 1/4 | 1 1/4 | FL20 | 4.04 (103) | 1.09 (27.7) | 2.23 (58.9) |
| 1 1/2 | 1 1/2 | FL24 | 4.75 (121) | 1.34 (34.0) | 2.61 (66.3) |
| 2 | 2 | FL32 | 5.72 (145) | 1.88 (47.8) | 3.48 (88.4) |
| mm | in. | — | mm (in.) | | |
| 6 | 1/4 | ML6 | 62.2 (2.45) | 4.8 (0.19) | 20.6 (0.81) |
| 8 | 1/4 | ML8 | 63.2 (2.49) | 6.4 (0.25) | 20.6 (0.81) |
| 10 | 3/8 | ML10 | 51.6 (2.03) | 7.9 (0.31) | 31.3 (1.23) |
| 12 | 1/2 | ML12 | 56.9 (2.24) | 9.7 (0.38) | 38.8 (1.53) |

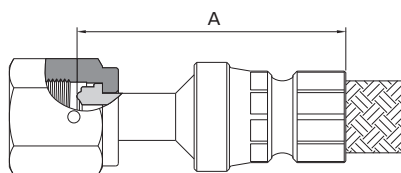
Male FR Metal Gasket Face Seal Fittings Swivel



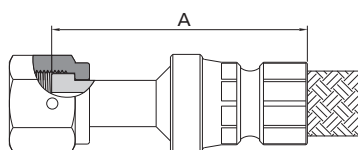
| FR Size | Nominal Hose Size | End Connection Designator | Dimensions | | |
|---------|-------------------|---------------------------|-------------|-------------------------|---------------------------|
| | | | A | Minimum Inside Diameter | Maximum Outside Dimension |
| in. | in. | | in. (mm) | | |
| 1/4 | 1/4 | SFR4 | 2.60 (66.0) | 0.18 (4.6) | 0.81 (20.6) |
| 1/2 | 1/2 | SFR8 | 2.83 (71.9) | 0.40 (10.2) | 1.23 (31.3) |
| 3/4 | 3/4 | SFR12 | 4.19 (106) | 0.65 (16.5) | 1.52 (38.7) |
| 1 | 1 | SFR16 | 4.80 (122) | 0.87 (22.1) | 1.53 (38.8) |

End Connections

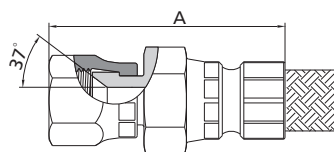
Female FR Metal Gasket Face Seal Fittings Swivel



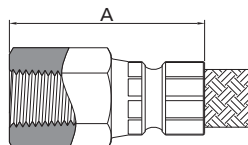
Female FO O-Ring Face Seal Fittings Swivel



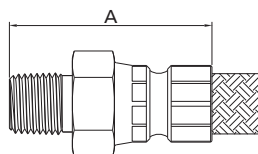
SAE 37° (JIC) Female Swivel



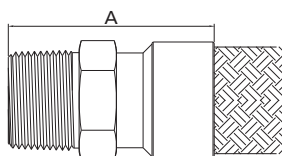
Female Pipe Threads, NPT



Male Pipe Threads, NPT



Automatic Weld Style-1 in. and Under



Manual Weld Style-Over 1 in.

| FR Size | Nominal Hose Size | End Connection Designator | Dimensions | | |
|---------|-------------------|---------------------------|-------------|-------------------------|---------------------------|
| | | | A | Minimum Inside Diameter | Maximum Outside Dimension |
| in. | in. | | in. (mm) | | |
| 1/4 | 1/4 | SFFR4 | 2.00 (50.8) | 0.18 (4.6) | 0.87 (22.1) |
| 1/2 | 1/2 | SFFR8 | 2.16 (54.9) | 0.40 (10.2) | 1.23 (31.3) |
| 3/4 | 3/4 | SFFR12 | 4.19 (106) | 0.65 (16.5) | 1.74 (44.2) |
| 1 | 1 | SFFR16 | 4.80 (122) | 0.87 (22.1) | 2.03 (51.6) |

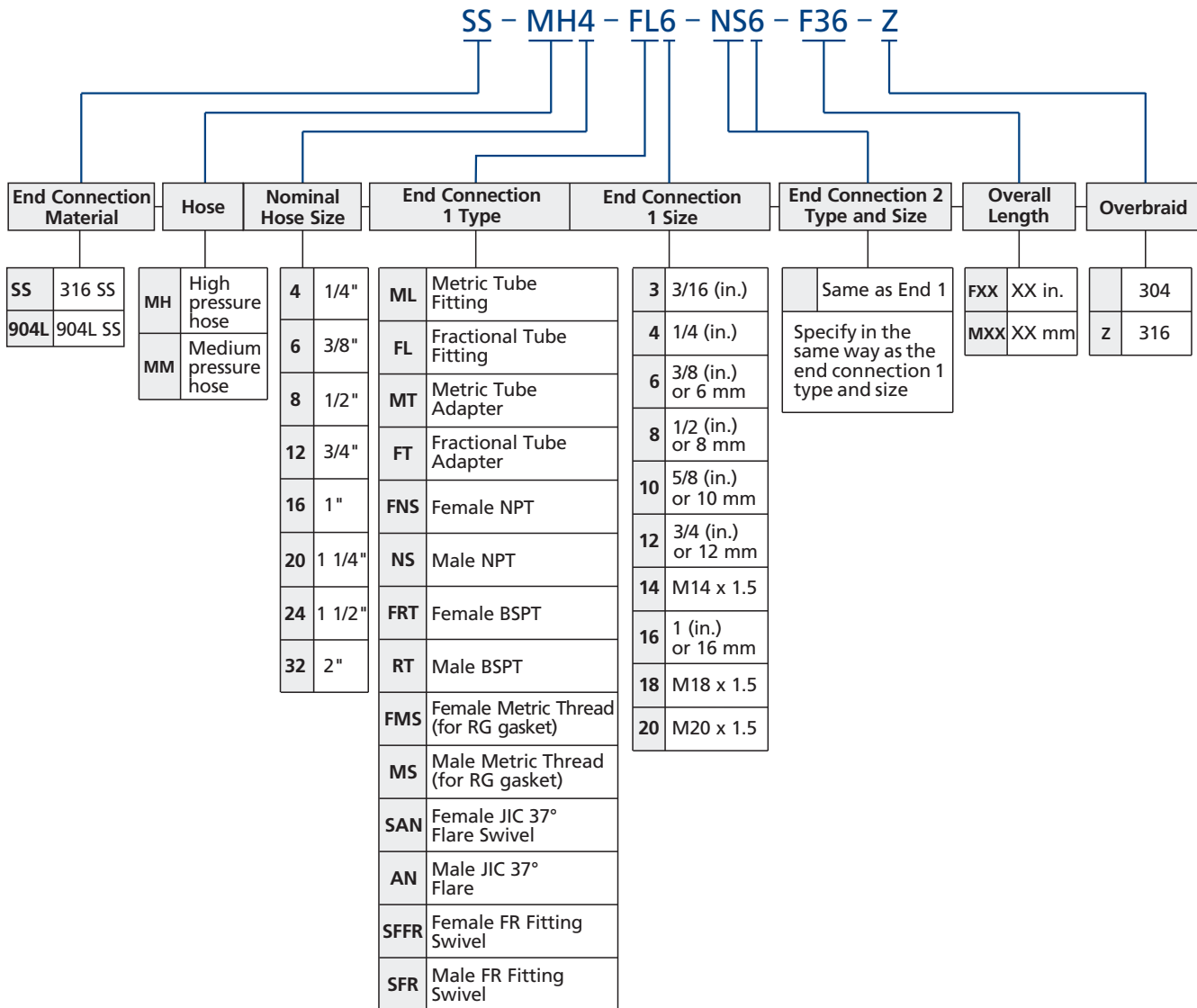
| FO Size | Nominal Hose Size | End Connection Designator | Dimensions | | |
|---------|-------------------|---------------------------|-------------|-------------------------|---------------------------|
| | | | A | Minimum Inside Diameter | Maximum Outside Dimension |
| in. | in. | | in. (mm) | | |
| 1/4 | 1/4 | SFFO4 | 2.11 (53.6) | 0.18 (4.6) | 0.81 (20.6) |
| 1/2 | 1/2 | SFFO8 | 2.14 (54.4) | 0.40 (10.2) | 1.23 (31.3) |

| Swivel Size | Nominal Hose Size | End Connection Designator | Dimensions | | |
|-------------|-------------------|---------------------------|-------------|-------------------------|---------------------------|
| | | | A | Minimum Inside Diameter | Maximum Outside Dimension |
| in. | in. | | in. (mm) | | |
| 1/4 | 1/4 | SAN4 | 1.87 (47.5) | 0.17 (4.3) | 0.81 (20.6) |
| 3/8 | 3/8 | SAN6 | 1.98 (50.3) | 0.28 (7.1) | 1.01 (25.6) |
| 1/2 | 1/2 | SAN8 | 2.25 (57.2) | 0.42 (10.7) | 1.23 (31.3) |

| NPT Size | Nominal Hose Size | End Connection Designator | Dimensions | | |
|----------|-------------------|---------------------------|-------------|-------------------------|---------------------------|
| | | | A | Minimum Inside Diameter | Maximum Outside Dimension |
| in. | in. | | in. (mm) | | |
| 1/4 | 1/4 | FNS4 | 1.81 (46.0) | 0.28 (7.1) | 0.94 (23.9) |
| 3/8 | 3/8 | FNS6 | 1.87 (47.5) | 0.38 (9.7) | 1.09 (27.7) |
| 1/2 | 1/2 | FNS8 | 2.18 (55.4) | 0.47 (11.9) | 1.23 (31.3) |
| 3/4 | 3/4 | FNS12 | 2.21 (56.1) | 0.72 (18.3) | 1.74 (44.2) |

| NPT Size | Nominal Hose Size | End Connection Designator | Dimensions | | |
|----------|-------------------|---------------------------|-------------|-------------------------|---------------------------|
| | | | A | Minimum Inside Diameter | Maximum Outside Dimension |
| in. | in. | | in. (mm) | | |
| 1/4 | 1/4 | NS4 | 1.80 (45.7) | 0.28 (7.1) | 0.94 (23.9) |
| 1/4 | 3/8 | NS4 | 1.81 (46.0) | 0.28 (7.1) | 1.09 (27.7) |
| 3/8 | 3/8 | NS6 | 1.81 (46.0) | 0.38 (9.7) | 1.09 (27.7) |
| 1/2 | 1/4 | NS8 | 1.99 (50.6) | 0.47 (11.9) | 1.02 (25.8) |
| 1/2 | 1/2 | NS8 | 2.15 (54.6) | 0.47 (11.9) | 1.23 (31.3) |
| 3/4 | 3/4 | NS12 | 2.22 (56.4) | 0.63 (16.0) | 1.74 (44.2) |
| 1 | 1 | NS16 | 2.54 (64.5) | 0.88 (22.4) | 1.82 (46.3) |
| 1 1/4 | 1 1/4 | NS20 | 3.06 (77.7) | 1.09 (27.7) | 2.03 (51.6) |
| 1 1/2 | 1 1/2 | NS24 | 3.72 (94.5) | 1.34 (34.0) | 2.47 (62.6) |
| 2 | 2 | NS32 | 4.19 (106) | 1.81 (46.0) | 3.19 (81.0) |

Ordering Number Description



Example: SS-MH4-FT6-M710

SS: End connection material is 316 stainless steel.

MH4: MH series, hose size is 1/4".

FT6: End connection 1 is 3/8" tube adapter.

End connection 2 is 3/8" tube adapter.

M710: Overall length is 710 mm.

End 1 and end 2 follow the orders and regulations below:

1. Metric Double Ferrules - Fractional Double Ferrules - Metric Tube Adapters - Fractional Tube Adapters - NPT Threads - BSPT Threads - BSPP Threads - SAE/MS Parallel Threads - 37° Flare - Others
2. Put the sizes from the biggest down to the smallest if they are of the same type.
3. Put the female before male if they are of the same type and size.

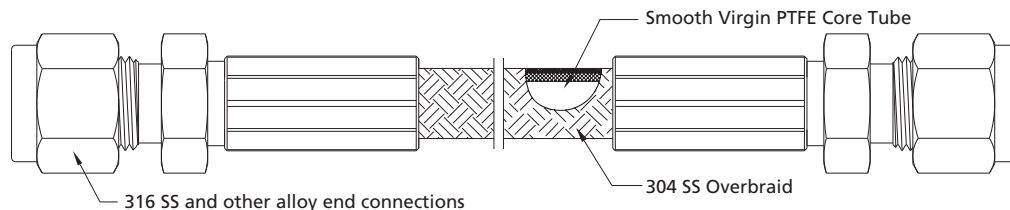
Note: "Ordering Number Description" is a reference to understand the combination rules of FITOK product part number. Not all combinations are available.

PTFE-lined, Stainless Steel Braided Hoses

PS Series

Features

- ⦿ Lightweight construction for easy handling and installation
- ⦿ Core tube material: smooth virgin PTFE
- ⦿ Overbraid material: 304 stainless steel
- ⦿ Working pressure up to: 3000 psig (207 bar)
- ⦿ Hose size: 1/4" to 1"
- ⦿ Working temperature: -65°F to 400°F (-53°C to 204°C)
- ⦿ Standard and custom length available

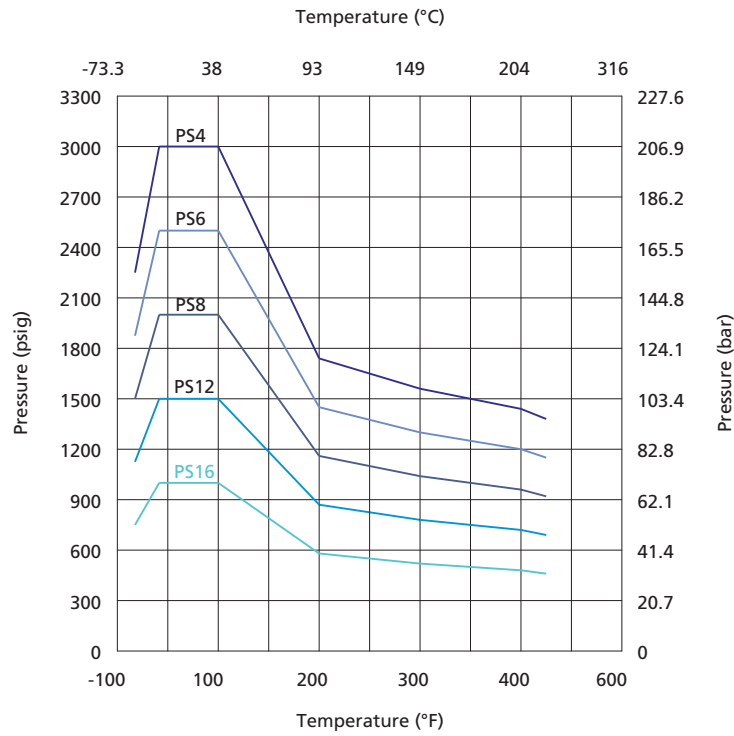


Hose Technical Data

| Nominal Hose Size | Inside Diameter | Min. Inside Bend Radius | | Temperature Range | Working Pressure at 70°F (20°C) | Burst Pressure at 70°F (20°C) |
|-------------------|-----------------|-------------------------|------------|----------------------------|---------------------------------|-------------------------------|
| | | Static | Dynamic | | | |
| in. (mm) | in. (mm) | in. (mm) | in. (mm) | °F (°C) | psig (bar) | psig (bar) |
| 1/4 (6.4) | 0.19 (4.8) | 1.5 (38.1) | 2.0 (50.8) | -65 to 400 (-53 to 204) | 3000 (206) | 12000 (826) |
| 3/8 (9.5) | 0.31 (7.9) | 3.5 (88.9) | 5.0 (127) | | 2500 (172) | 10000 (690) |
| 1/2 (12.7) | 0.41 (10.3) | 4.5 (114) | 6.0 (152) | | 2000 (137) | 8000 (551) |
| 3/4 (19.0) | 0.63 (15.9) | 6.0 (152) | 7.5 (190) | | 1500 (103) | 6000 (413) |
| 1 (25.4) | 0.88 (22.2) | 9.0 (229) | 11.3 (287) | | 1000 (68) | 4000 (275) |

Hoses
 Quick-connects

Pressure vs. Temperature



Testing

Every FITOK PTFE-lined hose assembly is factory tested with pure water at 1.5 times the maximum working pressure.

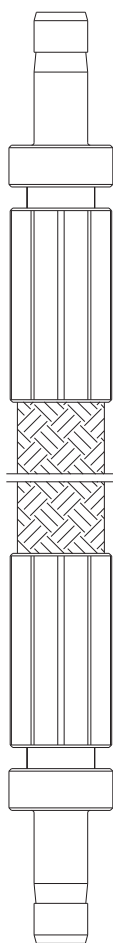
Cleaning and Packaging

FITOK PTFE-lined hose components are cleaned in accordance with FITOK *Standard Cleaning and Packaging Process (FC-01)* for general industrial procedures.

Shorter hoses are packed in cartons with suitable protective material, longer hoses are coiled, bagged and boxed or crated.

PTFE-lined Hose Standard Assemblies

Tube Adapters

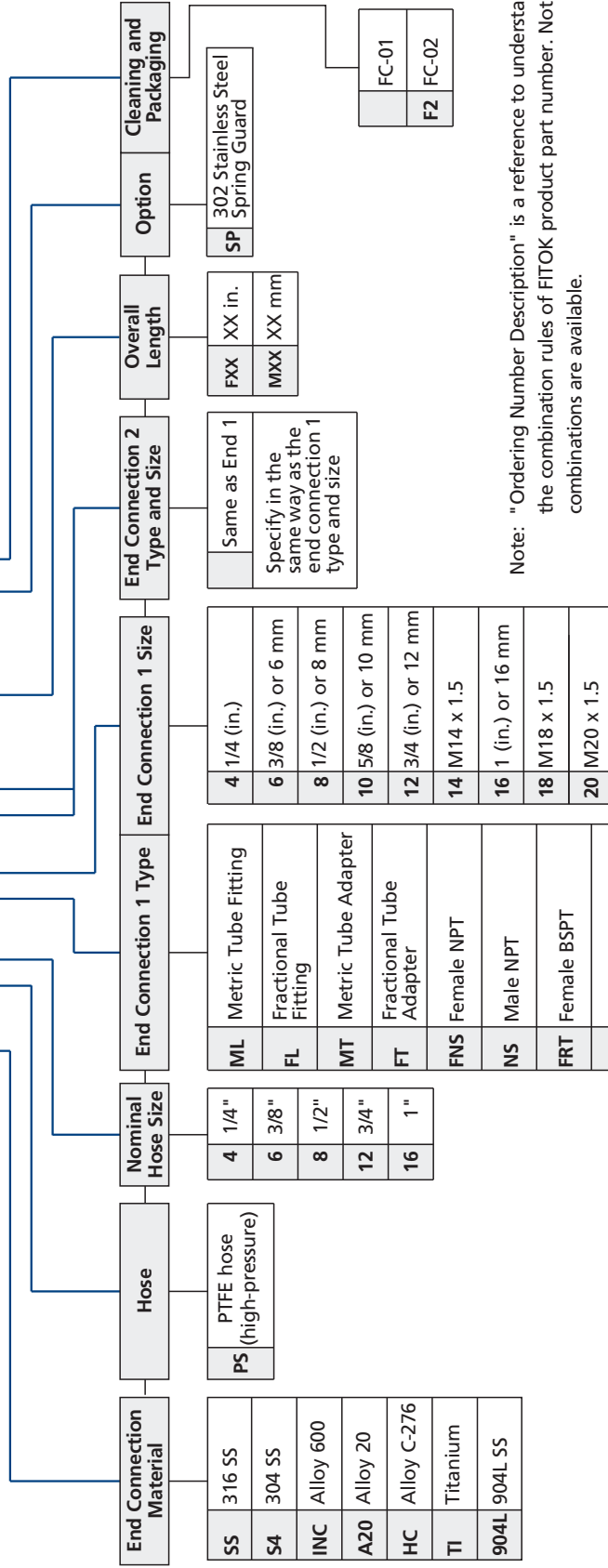


| Nominal Hose Size | Tube Adapter Size | Overall Length | Ordering Number | Minimum Inside Diameter | Maximum Outside Dimension |
|-------------------|-------------------|----------------|------------------|-------------------------|---------------------------|
| in. | in. | in. (mm) | | in. (mm) | in. (mm) |
| 1/4 | 1/4 | 6.0 (153) | SS-PS4-FT4-F6 | 0.16 (4.1) | 0.54 (13.7) |
| | | 12.0 (305) | SS-PS4-FT4-F12 | | |
| | | 18.0 (458) | SS-PS4-FT4-F18 | | |
| | | 24.0 (610) | SS-PS4-FT4-F24 | | |
| | | 36.0 (915) | SS-PS4-FT4-F36 | | |
| | | 48.0 (1220) | SS-PS4-FT4-F48 | | |
| | | 60.0 (1530) | SS-PS4-FT4-F60 | | |
| | | 72.0 (1829) | SS-PS4-FT4-F72 | | |
| | | 120.0 (3050) | SS-PS4-FT4-F120 | | |
| 3/8 | 3/8 | 12.0 (305) | SS-PS6-FT6-F12 | 0.27 (6.9) | 0.73 (18.5) |
| | | 18.0 (458) | SS-PS6-FT6-F18 | | |
| | | 24.0 (610) | SS-PS6-FT6-F24 | | |
| | | 36.0 (915) | SS-PS6-FT6-F36 | | |
| | | 48.0 (1220) | SS-PS6-FT6-F48 | | |
| | | 60.0 (1530) | SS-PS6-FT6-F60 | | |
| | | 72.0 (1829) | SS-PS6-FT6-F72 | | |
| | | 96.0 (2439) | SS-PS6-FT6-F96 | | |
| | | 120.0 (3050) | SS-PS6-FT6-F120 | | |
| 1/2 | 1/2 | 12.0 (305) | SS-PS8-FT8-F12 | 0.36 (9.1) | 0.86 (21.8) |
| | | 24.0 (610) | SS-PS8-FT8-F24 | | |
| | | 36.0 (915) | SS-PS8-FT8-F36 | | |
| | | 48.0 (1220) | SS-PS8-FT8-F48 | | |
| | | 60.0 (1530) | SS-PS8-FT8-F60 | | |
| | | 72.0 (1829) | SS-PS8-FT8-F72 | | |
| 3/4 | 3/4 | 24.0 (610) | SS-PS12-FT12-F24 | 0.53 (13.5) | 1.04 (26.4) |
| | | 36.0 (915) | SS-PS12-FT12-F36 | | |
| 1 | 1 | 36.0 (915) | SS-PS16-FT16-F36 | 0.80 (20.3) | 1.36 (34.5) |
| | | 48.0 (1220) | SS-PS16-FT16-F48 | | |
| in. | mm | in. (mm) | — | in. (mm) | in. (mm) |
| 1/4 | 6 | 12.0 (305) | SS-PS4-MT6-F12 | 0.16 (4.1) | 0.54 (13.7) |
| | | 24.0 (610) | SS-PS4-MT6-F24 | | |
| | | 36.0 (915) | SS-PS4-MT6-F36 | | |
| 1/2 | 12 | 24.0 (610) | SS-PS8-MT12-F24 | 0.33 (8.4) | 0.86 (21.8) |
| | | 36.0 (915) | SS-PS8-MT12-F36 | | |

1. All dimensions are for reference only and are subject to change. For dimensions not shown above, please contact FITOK Group or our authorized distributors.
2. Sizes and types listed are standard. Other sizes and types are available on request.

Ordering Number Description

SS – PS4 – FL6 – FT6 – M1000 – SPF2



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

- Options and accessories do not change hose technical data. Hose operating parameters must be considered when selecting a cover.
- 302 stainless steel spring guard covers entire hose to protect against kinking and abrasion.

Example: SS-PS4-SAN4-M500

- SS: End connection material is 316 stainless steel.
- PS4: PS series, hose inside diameter is 3/16".
- SAN4: End connection 1 is 1/4" female JIC 37° flare swivel.
- M500: Overall length is 500 mm.

End 1 and end 2 follow the orders and regulations below:

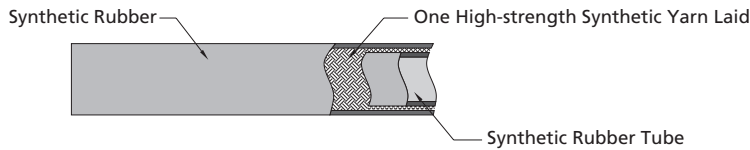
- Metric Double Ferrules - Fractional Double Ferrules - Metric Tube Adapters - Fractional Tube Adapters - NPT Threads - BSPT Threads - BSPP Threads - SAE/MS Parallel Threads - 37° Flare - Others
- Put the sizes from the biggest down to the smallest if they are of the same type.
- Put the female before male if they are of the same type and size.

Multipurpose Push-on Hoses

MP Series

Features

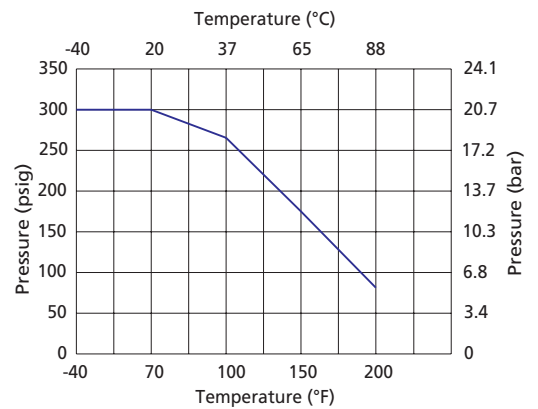
- ⦿ Cover: weatherproof, abrasion withstanding and oil-resistant synthetic rubber
- ⦿ Reinforcement: single-braid high-strength synthetic fiber woven for maximum strength and end connection retention
- ⦿ Core tube: highly oil-resistant rubber
- ⦿ Hose colors: blue, black, green, gray, red and yellow
- ⦿ Working pressure up to: 300 psig (20.7 bar)
- ⦿ Hose size: 1/4" to 3/4"
- ⦿ Working temperature: -40°F to 200°F (-40°C to 93°C)
- ⦿ End connection materials: stainless steel and brass
- ⦿ End connections reusable
- ⦿ Custom length available



Hose Technical Data

| Nominal Hose Size | Inside Diameter | Min. Inside Bend Radius | Temperature Range | Working Pressure at -40 to 70°F (-40 to 20°C) | Min. Burst Pressure at 70°F (20°C) |
|-------------------|-----------------|-------------------------|---------------------------|---|------------------------------------|
| in. (mm) | in. (mm) | in. (mm) | °F(°C) | psig (bar) | psig (bar) |
| 1/4 (6.4) | 0.26 (6.6) | 2.50 (63.5) | -40 to 200 (-40 to 93) | 300 (20.6) | 1200 (82.7) |
| 3/8 (9.5) | 0.39 (9.9) | 3.00 (76.2) | | | |
| 1/2 (12.7) | 0.50 (12.7) | 5.00 (127) | | | |
| 3/4 (19.0) | 0.76 (19.3) | 7.00 (178) | | | |

Pressure vs. Temperature



Testing

Every FITOK multipurpose push-on hose assembly is factory tested with pure water at 1.5 times the maximum working pressure.

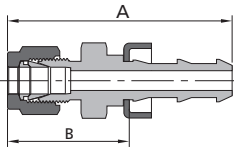
Cleaning and Packaging

FITOK multipurpose push-on hose components are cleaned in accordance with FITOK *Standard Cleaning and Packaging Process (FC-01)* for general industrial procedures.

Shorter hoses are packed in cartons with suitable protective material, longer hoses are coiled, bagged and boxed or crated.

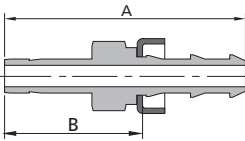
Multipurpose Push-on Hose End Connections

Tube Fittings



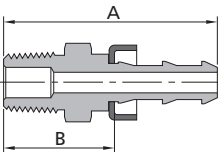
| Nominal Hose Size | Tube Fitting Size | Basic Ordering Number | Dimensions, in. (mm) | | | |
|-------------------|-------------------|-----------------------|----------------------|-------------|-------------------------|---------------------------|
| | | | A | B | Minimum Inside Diameter | Maximum Outside Dimension |
| in. | in. | | | | | |
| 1/4 | 1/4 | -MP4-FL4 | 1.97 (50.0) | 1.21 (30.7) | 0.16 (4.1) | 0.67 (17.0) |
| 3/8 | 3/8 | -MP6-FL6 | 2.11 (53.6) | 1.24 (31.5) | 0.27 (6.9) | 0.87 (22.1) |
| 1/2 | 1/2 | -MP8-FL8 | 2.47 (62.7) | 1.42 (36.1) | 0.37 (9.5) | 1.02 (25.8) |

Tube Adapters



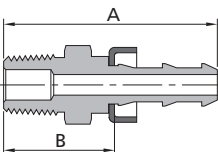
| Nominal Hose Size | Tube Adapter Size | Basic Ordering Number | Dimensions, in. (mm) | | | |
|-------------------|-------------------|-----------------------|----------------------|-------------|-------------------------|---------------------------|
| | | | A | B | Minimum Inside Diameter | Maximum Outside Dimension |
| in. | in. | | | | | |
| 1/4 | 1/4 | -MP4-FT4 | 1.93 (49.0) | 1.17 (29.7) | 0.15 (3.8) | 0.67 (17.0) |
| 3/8 | 3/8 | -MP6-FT6 | 2.03 (51.6) | 1.16 (29.5) | 0.24 (6.1) | 0.83 (21.1) |
| 1/2 | 1/2 | -MP8-FT8 | 2.47 (62.7) | 1.42 (36.1) | 0.34 (8.7) | 0.98 (24.9) |
| 3/4 | 3/4 | -MP12-FT12 | 3.14 (79.8) | 1.48 (37.6) | 0.57 (14.5) | 1.23 (31.3) |
| in. | mm | — | mm(in.) | | | |
| 1/4 | 6 | -MP4-MT6 | 49.0 (1.93) | 29.7 (1.17) | 3.8 (0.15) | 17.0 (0.67) |
| 1/4 | 8 | -MP4-MT8 | 48.8 (1.92) | 29.5 (1.16) | 4.1 (0.16) | 17.0 (0.67) |
| 3/8 | 8 | -MP6-MT8 | 52.1 (2.05) | 30.0 (1.18) | 5.6 (0.22) | 21.1 (0.83) |
| 3/8 | 10 | -MP6-MT10 | 51.6 (2.03) | 29.5 (1.16) | 6.9 (0.27) | 21.1 (0.83) |
| 1/2 | 12 | -MP8-MT12 | 62.7 (2.47) | 36.1 (1.42) | 8.1 (0.32) | 24.9 (0.98) |
| 3/4 | 18 | -MP12-MT18 | 79.8 (3.14) | 37.3 (1.47) | 8.6 (0.34) | 31.3 (1.23) |

Male NPT



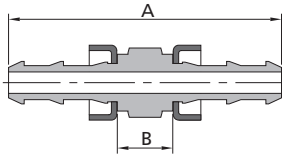
| Nominal Hose Size | NPT Size | Basic Ordering Number | Dimensions, in. (mm) | | | |
|-------------------|----------|-----------------------|----------------------|-------------|-------------------------|---------------------------|
| | | | A | B | Minimum Inside Diameter | Maximum Outside Dimension |
| in. | | | | | | |
| 1/4 | 1/4 | -MP4-NS4 | 1.68 (42.7) | 0.92 (23.4) | 0.16 (4.1) | 0.67 (17.0) |
| 3/8 | 1/4 | -MP6-NS4 | 1.80 (45.7) | 0.93 (23.6) | 0.27 (6.9) | 0.83 (21.1) |
| 3/8 | 3/8 | -MP6-NS6 | 1.80 (45.7) | 0.93 (23.6) | 0.27 (6.9) | 0.83 (21.1) |
| 1/2 | 1/2 | -MP8-NS8 | 2.19 (55.6) | 1.14 (29.0) | 0.37 (9.5) | 1.02 (25.9) |
| 3/4 | 3/4 | -MP12-NS12 | 2.81 (71.4) | 1.14 (29.0) | 0.61 (15.6) | 1.31 (33.3) |

Male BSPT



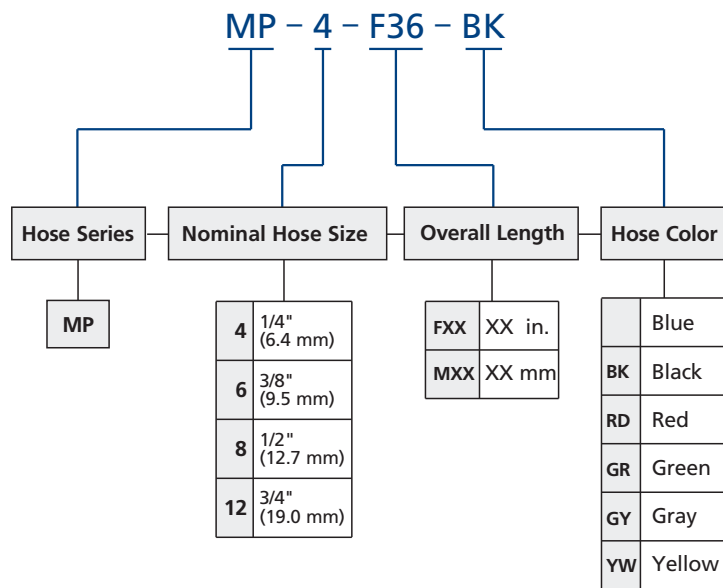
| Nominal Hose Size | BSPT Size | Basic Ordering Number | Dimensions, in. (mm) | | | |
|-------------------|-----------|-----------------------|----------------------|-------------|-------------------------|---------------------------|
| | | | A | B | Minimum Inside Diameter | Maximum Outside Dimension |
| in. | | | | | | |
| 1/4 | 1/4 | -MP4-RT4 | 1.68 (42.7) | 0.92 (23.4) | 0.16 (4.1) | 0.67 (17.0) |
| 3/8 | 1/4 | -MP6-RT4 | 1.80 (45.7) | 0.93 (23.6) | 0.27 (6.9) | 0.83 (21.1) |
| 3/8 | 3/8 | -MP6-RT6 | 1.80 (45.7) | 0.93 (23.6) | 0.27 (6.9) | 0.83 (21.1) |
| 1/2 | 1/2 | -MP8-RT8 | 2.19 (55.6) | 1.14 (29.0) | 0.37 (9.5) | 1.02 (25.9) |
| 3/4 | 3/4 | -MP12-RT12 | 2.81 (71.4) | 1.14 (29.0) | 0.61 (15.6) | 1.31 (33.3) |

Unions



| Nominal Hose Size | Basic Ordering Number | Dimensions, in. (mm) | | | |
|-------------------|-----------------------|----------------------|-------------|-------------------------|---------------------------|
| | | A | B | Minimum Inside Diameter | Maximum Outside Dimension |
| in. | | | | | |
| 1/4 | -MP4-4 | 2.07 (52.6) | 0.43 (11.4) | 0.16 (4.1) | 0.67 (17.0) |
| 3/8 | -MP6-6 | 2.25 (57.2) | 0.40 (12) | 0.27 (6.9) | 0.83 (21.1) |
| 1/2 | -MP8-8 | 2.61 (69.8) | 0.40 (14) | 0.37 (9.5) | 0.96 (24.5) |
| 3/4 | -MP12-12 | 3.85 (97.8) | 0.47 (12.0) | 0.61 (15.6) | 1.23 (31.3) |

Hose Ordering Number Description



Example: **MP-8-F60-BK**

MP: Hose series

8: Hose size is 1/2".

F60: Overall length is 60".

BK: Hose color is black.

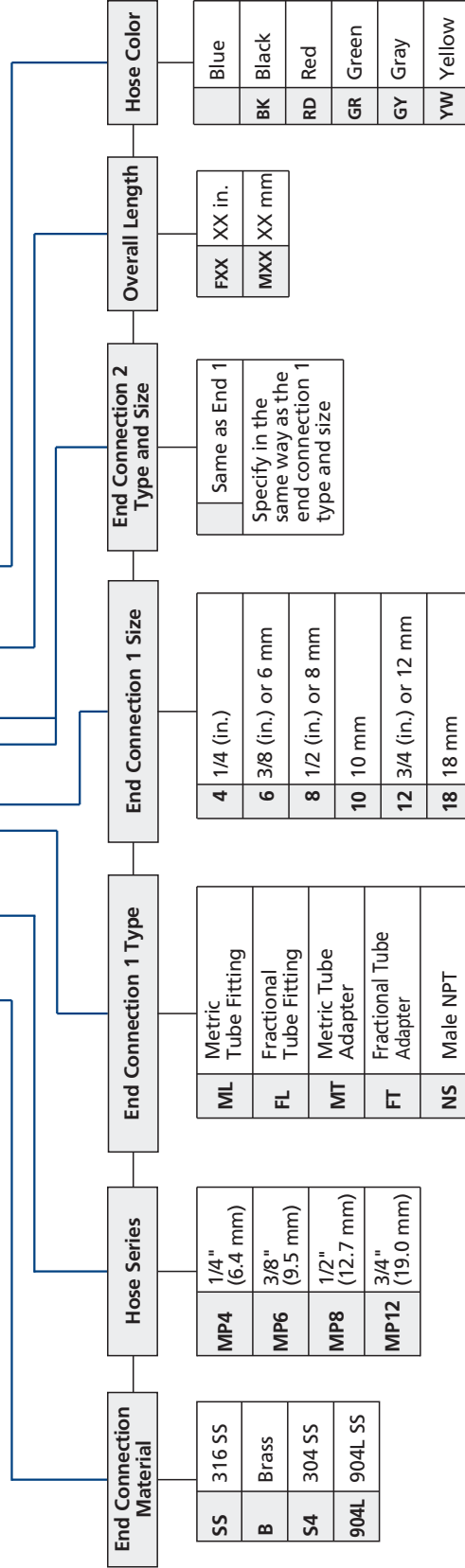
Note: "Ordering Number Description" is a reference to understand the combination rules of FITOK product part number. Not all combinations are available.

Multipurpose Push-On Hose Custom Assemblies



Ordering Number Description

SS – MP4 – FL4 – FT4 – F36 – BK



Example: **SS-MP4-FT4-F28-BK**

SS: End connection material is 316 stainless steel.

MP4: MP series, hose size is 1/4" .

FT4: End connection 1 is 1/4" tube adapter.

End connection 2 is 1/4" tube adapter.

F28: Overall length is 28" .

BK : Hose color is black.

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

End 1 and end 2 follow the orders and regulations below:

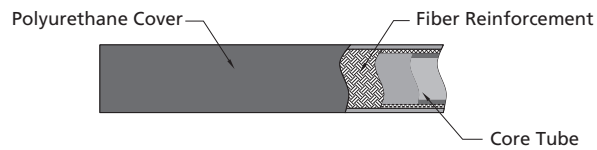
1. Metric Double Ferrules - Fractional Double Ferrules - Metric Tube Adapters - Fractional Tube Adapters - NPT Threads - BSPT Threads - SAE/IMS Parallel Threads - 37° Flare - Others
2. Put the sizes from the biggest down to the smallest if they are of the same type.
3. Put the female before male if they are of the same type and size.

Thermoplastic Hoses

TH Series

Features

- ⦿ Polyurethane cover: resists oil, weather and abrasion
- ⦿ Reinforcement: double-braid high-strength synthetic fiber
- ⦿ Core tube: nylon
- ⦿ Working pressure up to: 5000 psig (345 bar)
- ⦿ Hose size: 3/16" to 1"
- ⦿ Working temperature: -40°F to 200°F (-40°C to 93°C)
- ⦿ End connections: 1/4 to 1 thread, 1/4" to 1" and 6 mm to 22 mm tube fitting
- ⦿ End connection materials: stainless steel, brass and carbon steel
- ⦿ Custom length available



Technical Data

Thermoplastic Hydraulic Hose (SAE 100R7)

| Nominal Hose Size | Hose Series | Min. Inside Bend Radius | Inside Diameter | Temperature Range | Working Pressure at 70°F (20°C) | Min. Burst Pressure at 70°F (20°C) | Specification |
|-------------------|-------------|-------------------------|-----------------|---------------------------|---------------------------------|------------------------------------|-------------------|
| in. (mm) | | in. (mm) | in. (mm) | °F (°C) | psig (bar) | psig (bar) | |
| 3/16 (4.8) | TH3 | 1.58 (40) | 0.19 (4.8) | -40 to 200 (-40 to 93) | 3000 (207) | 12000 (828) | SAE J517 100R7 |
| 1/4 (6.4) | TH4 | 1.97 (50) | 0.25 (6.4) | | 2750 (189) | 11000 (758) | |
| 5/16 (8.0) | TH5 | 2.36 (60) | 0.31 (7.9) | | 2500 (173) | 10000 (690) | |
| 3/8 (9.6) | TH6 | 2.95 (75) | 0.38 (9.8) | | 2250 (155) | 9000 (620) | |
| 1/2 (12.7) | TH8 | 3.74 (95) | 0.50 (12.7) | | 2000 (137) | 8000 (551) | |

Thermoplastic Hydraulic Hose (SAE 100R8)

| Nominal Hose Size | Hose Series | Min. Inside Bend Radius | Inside Diameter | Temperature Range | Working Pressure at 70°F (20°C) | Min. Burst Pressure at 70°F (20°C) | Specification |
|-------------------|-------------|-------------------------|-----------------|---------------------------|---------------------------------|------------------------------------|-------------------|
| in. (mm) | | in. (mm) | in. (mm) | °F (°C) | psig (bar) | psig (bar) | |
| 3/16 (4.8) | TH3 | 2.00 (50.8) | 0.19 (4.8) | -40 to 200 (-40 to 93) | 5000 (344) | 20000 (1378) | SAE J517 100R8 |
| 1/4 (6.4) | TH4 | 2.00 (50.8) | 0.25 (6.4) | | 5000 (344) | 20000 (1378) | |
| 3/8 (9.6) | TH6 | 2.50 (63.5) | 0.38 (9.8) | | 4000 (275) | 16000 (1102) | |
| 1/2 (12.7) | TH8 | 4.00 (102) | 0.50 (12.7) | | 3500 (241) | 14000 (964) | |
| 3/4 (19.0) | TH12 | 6.50 (165) | 0.75 (19.0) | | 2250 (155) | 9000 (620) | |
| 1 (25.4) | TH16 | 10.0 (254) | 1.00 (25.4) | | 2000 (137) | 8000 (551) | |

Testing

Every FITOK thermoplastic hose assembly is factory tested with pure water at 1.5 times the maximum working pressure.

Cleaning and Packaging

FITOK thermoplastic hose components are cleaned in accordance with FITOK *Standard Cleaning and Packaging Process (FC-01)* for general industrial procedures.

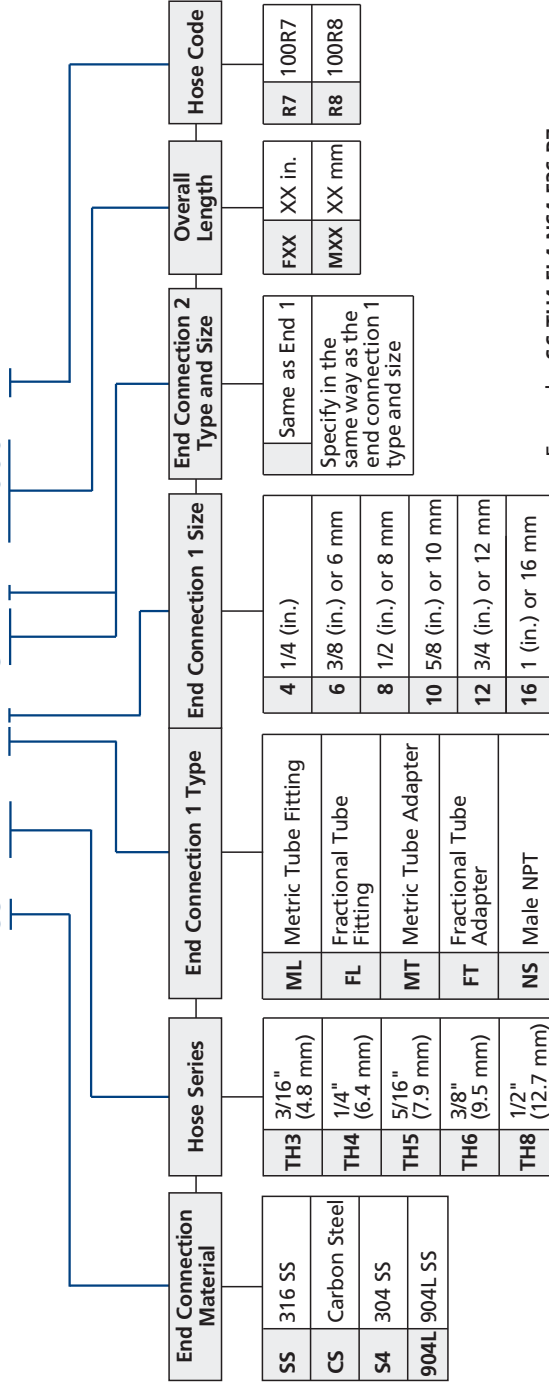
Shorter hoses are packed in cartons with suitable protective material, longer hoses are coiled, bagged and boxed or crated.

Thermoplastic Hose Assemblies



Ordering Number Description

SS – TH4 – FL4 – SAN4 – M1000 – R7



Example: **SS-TH4-FL4-NS4-F36-R7**

SS: End connection material is 316 stainless steel.

TH4: TH series, hose size is 1/4"

FL4: End connection 1 is 1/4" tube fitting.

NS4 : End connection 2 is 1/4 male NPT.

F36 : Overall length is 36"

R7 : SAE J517 100R7.

End 1 and end 2 follow the orders and regulations below:

1. Metric Double Ferrules - Fractional Double Ferrules - Metric Tube Adapters - Fractional Tube Adapters - NPT Threads - BSPT Threads - BSPP Threads - SAE/MS Parallel Threads - 37° Flare - Others
2. Put the sizes from the biggest down to the smallest if they are of the same type.
3. Put the female before male if they are of the same type and size.

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

Hose Connectors and Sleeves

HC Series

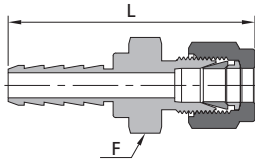
Features

- Used to connect soft plastic or rubber tubing
- Working pressures and working temperatures are wider than those of the connected hoses
- Stainless steel or brass is available
- Shank design holds tubing inside diameter securely
- Hose connectors are reusable



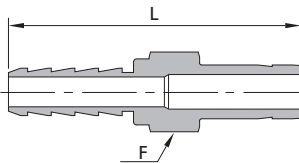
Hose Connectors

Tube Fittings



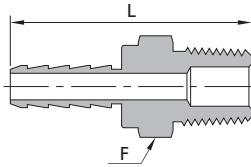
| Hose ID | Tube Size | Basic Ordering Number | Dimensions | | |
|---------|-----------|-----------------------|-------------------------|------|-------------|
| | | | Minimum Inside Diameter | F | L |
| in. | in. | | in. (mm) | in. | in. (mm) |
| 1/8 | 1/8 | -HC-F2-FL2 | 0.08 (2.0) | 7/16 | 1.42 (36.1) |
| 1/4 | 1/8 | -HC-F4-FL2 | 0.09 (2.3) | 7/16 | 1.81 (46.0) |
| | 1/4 | -HC-F4-FL4 | 0.19 (4.8) | 9/16 | 1.92 (48.8) |
| 3/8 | 1/4 | -HC-F6-FL4 | 0.19 (4.8) | 9/16 | 1.99 (50.6) |
| | 3/8 | -HC-F6-FL6 | 0.28 (7.1) | 3/4 | 2.06 (52.3) |
| 1/2 | 1/2 | -HC-F8-FL8 | 0.38 (9.7) | 7/8 | 2.24 (56.9) |
| mm | mm | — | mm (in.) | mm | mm (in.) |
| 6 | 6 | -HC-M6-ML6 | 4.8 (0.19) | 14 | 49.5 (1.95) |
| 8 | 8 | -HC-M8-ML8 | 6.4 (0.25) | 16 | 49.8 (1.96) |
| | 10 | -HC-M8-ML10 | 6.4 (0.25) | 18 | 51.6 (2.03) |
| 10 | 10 | -HC-M10-ML10 | 7.9 (0.31) | 19 | 52.3 (2.06) |
| 12 | 12 | -HC-M12-ML12 | 9.7 (0.38) | 22 | 57.4 (2.26) |

Tube Adapters



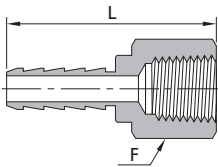
| Hose ID | Tube Size | Basic Ordering Number | Dimensions | | |
|---------|-----------|-----------------------|-------------------------|-------|-------------|
| | | | Minimum Inside Diameter | F | L |
| in. | in. | | in. (mm) | in. | in. (mm) |
| 1/8 | 1/8 | -HC-F2-FT2 | 0.08 (2.0) | 5/16 | 1.37 (34.8) |
| | 1/4 | -HC-F2-FT4 | 0.09 (2.3) | 3/8 | 1.47 (37.3) |
| 1/4 | 1/4 | -HC-F4-FT4 | 0.19 (4.8) | 7/16 | 1.86 (47.2) |
| | 3/8 | -HC-F4-FT6 | 0.19 (4.8) | 7/16 | 1.92 (48.8) |
| 5/16 | 1/4 | -HC-F5-FT4 | 0.19 (4.8) | 7/16 | 1.94 (49.3) |
| 3/8 | 1/4 | -HC-F6-FT4 | 0.19 (4.8) | 9/16 | 1.94 (49.3) |
| | 3/8 | -HC-F6-FT6 | 0.28 (7.1) | 9/16 | 2.00 (50.8) |
| | 1/2 | -HC-F6-FT8 | 0.30 (7.6) | 5/8 | 2.26 (57.4) |
| 1/2 | 3/8 | -HC-F8-FT6 | 0.28 (7.1) | 11/16 | 2.07 (52.6) |
| | 1/2 | -HC-F8-FT8 | 0.38 (9.7) | 11/16 | 2.33 (59.2) |
| 3/4 | 3/4 | -HC-F12-FT12 | 0.63 (16.0) | 13/16 | 2.50 (63.5) |
| 1 | 1 | -HC-F16-FT16 | 0.80 (20.3) | 1 3/8 | 3.03 (77.0) |

Male NPT



| Hose ID | NPT Size | Basic Ordering Number | Dimensions | | |
|---------|----------|-----------------------|-------------------------|--------|-------------|
| | | | Minimum Inside Diameter | F | L |
| in. | | | in. (mm) | in. | in. (mm) |
| 1/8 | 1/8 | -HC-F2-NS2 | 0.08 (2.0) | 7/16 | 1.08 (27.4) |
| | 1/4 | -HC-F2-NS4 | 0.08 (2.0) | 9/16 | 1.26 (32.0) |
| 3/16 | 1/8 | -HC-F3-NS2 | 0.13 (3.3) | 7/16 | 1.27 (32.2) |
| | 1/4 | -HC-F3-NS4 | 0.13 (3.3) | 9/16 | 1.45 (36.8) |
| 1/4 | 1/8 | -HC-F4-NS2 | 0.19 (4.8) | 7/16 | 1.47 (37.3) |
| | 1/4 | -HC-F4-NS4 | 0.19 (4.8) | 9/16 | 1.65 (41.9) |
| | 3/8 | -HC-F4-NS6 | 0.19 (4.8) | 11/16 | 1.66 (42.2) |
| | 1/2 | -HC-F4-NS8 | 0.19 (4.8) | 7/8 | 1.85 (47.0) |
| 5/16 | 1/8 | -HC-F5-NS2 | 0.19 (4.8) | 7/16 | 1.55 (39.4) |
| | 1/4 | -HC-F5-NS4 | 0.19 (4.8) | 9/16 | 1.73 (43.9) |
| | 3/8 | -HC-F5-NS6 | 0.19 (4.8) | 11/16 | 1.74 (44.2) |
| | 1/2 | -HC-F5-NS8 | 0.19 (4.8) | 7/8 | 1.96 (49.8) |
| 3/8 | 1/4 | -HC-F6-NS4 | 0.30 (7.6) | 9/16 | 1.73 (43.9) |
| | 3/8 | -HC-F6-NS6 | 0.30 (7.6) | 11/16 | 1.74 (44.2) |
| | 1/2 | -HC-F6-NS8 | 0.30 (7.6) | 7/8 | 1.96 (49.8) |
| 1/2 | 1/4 | -HC-F8-NS4 | 0.30 (7.6) | 11/16 | 1.80 (45.7) |
| | 3/8 | -HC-F8-NS6 | 0.38 (9.7) | 11/16 | 1.81 (46.0) |
| | 1/2 | -HC-F8-NS8 | 0.38 (9.7) | 7/8 | 2.03 (51.6) |
| 5/8 | 3/8 | -HC-F10-NS6 | 0.38 (9.7) | 1 1/16 | 1.88 (47.8) |
| | 1/2 | -HC-F10-NS8 | 0.47 (11.9) | 1 1/16 | 2.07 (52.6) |
| | 3/4 | -HC-F10-NS12 | 0.50 (12.7) | 1 1/16 | 2.07 (52.6) |
| 3/4 | 1/2 | -HC-F12-NS8 | 0.47 (11.9) | 1 1/16 | 2.14 (54.4) |
| | 3/4 | -HC-F12-NS12 | 0.63 (16.0) | 1 1/16 | 2.14 (54.4) |
| | 1 | -HC-F12-NS16 | 0.63 (16.0) | 1 3/8 | 2.43 (61.7) |
| 1 | 3/4 | -HC-F16-NS12 | 0.63 (16.0) | 1 3/8 | 2.38 (60.5) |
| | 1 | -HC-F16-NS16 | 0.88 (22.4) | 1 3/8 | 2.57 (65.3) |

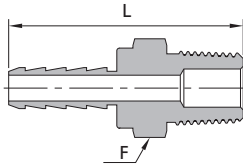
Female NPT



| Hose ID | NPT Size | Basic Ordering Number | Dimensions | | |
|---------|----------|-----------------------|-------------------------|--------|-------------|
| | | | Minimum Inside Diameter | F | L |
| in. | | | in. (mm) | in. | in. (mm) |
| 1/8 | 1/8 | -HC-F2-FNS2 | 0.08 (2.0) | 9/16 | 1.11 (28.2) |
| | 1/4 | -HC-F2-FNS4 | 0.08 (2.0) | 3/4 | 1.26 (32.0) |
| 3/16 | 1/8 | -HC-F3-FNS2 | 0.13 (3.3) | 9/16 | 1.29 (32.8) |
| | 1/4 | -HC-F3-FNS4 | 0.13 (3.3) | 3/4 | 1.44 (36.6) |
| 1/4 | 1/8 | -HC-F4-FNS2 | 0.19 (4.8) | 9/16 | 1.47 (37.3) |
| | 1/4 | -HC-F4-FNS4 | 0.19 (4.8) | 3/4 | 1.64 (41.7) |
| | 3/8 | -HC-F4-FNS6 | 0.19 (4.8) | 7/8 | 1.71 (43.4) |
| 5/16 | 1/4 | -HC-F5-FNS4 | 0.19 (4.8) | 3/4 | 1.73 (43.9) |
| | 3/8 | -HC-F5-FNS6 | 0.19 (4.8) | 7/8 | 1.82 (46.2) |
| 3/8 | 1/4 | -HC-F6-FNS4 | 0.30 (7.6) | 3/4 | 1.69 (42.9) |
| | 3/8 | -HC-F6-FNS6 | 0.30 (7.6) | 7/8 | 1.78 (45.2) |
| | 1/2 | -HC-F6-FNS8 | 0.30 (7.6) | 1 1/16 | 2.03 (51.6) |
| 1/2 | 1/2 | -HC-F8-FNS8 | 0.38 (9.7) | 1 1/16 | 2.13 (54.1) |

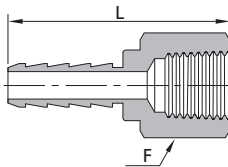
Hoses Quick-connects

Male BSPT



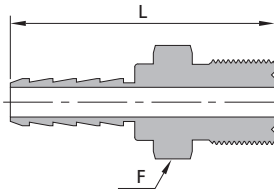
| Hose ID | BSPT Size | Basic Ordering Number | Dimensions | | |
|---------|-----------|-----------------------|-------------------------|--------|-------------|
| | | | Minimum Inside Diameter | F | L |
| in. | | | in. (mm) | in. | in. (mm) |
| 1/8 | 1/8 | -HC-F2-RT2 | 0.08 (2.0) | 7/16 | 1.28 (32.5) |
| | 1/4 | -HC-F2-RT4 | 0.08 (2.0) | 9/16 | 1.40 (35.5) |
| 3/16 | 1/8 | -HC-F3-RT2 | 0.13 (3.3) | 7/16 | 1.40 (35.5) |
| | 1/4 | -HC-F3-RT4 | 0.13 (3.3) | 9/16 | 1.58 (40.1) |
| 1/4 | 1/8 | -HC-F4-RT2 | 0.19 (4.8) | 7/16 | 1.47 (37.3) |
| | 1/4 | -HC-F4-RT4 | 0.19 (4.8) | 9/16 | 1.65 (41.9) |
| | 3/8 | -HC-F4-RT6 | 0.19 (4.8) | 11/16 | 1.66 (42.2) |
| | 1/2 | -HC-F4-RT8 | 0.19 (4.8) | 7/8 | 1.90 (48.3) |
| 5/16 | 1/8 | -HC-F5-RT2 | 0.19 (4.8) | 7/16 | 1.67 (42.4) |
| | 1/4 | -HC-F5-RT4 | 0.19 (4.8) | 9/16 | 1.86 (47.2) |
| | 3/8 | -HC-F5-RT6 | 0.19 (4.8) | 11/16 | 1.87 (47.5) |
| | 1/2 | -HC-F5-RT8 | 0.19 (4.8) | 7/8 | 2.10 (53.3) |
| 3/8 | 1/4 | -HC-F6-RT4 | 0.30 (7.6) | 9/16 | 1.73 (43.9) |
| | 3/8 | -HC-F6-RT6 | 0.30 (7.6) | 11/16 | 1.74 (44.2) |
| | 1/2 | -HC-F6-RT8 | 0.30 (7.6) | 7/8 | 1.96 (49.8) |
| 1/2 | 1/4 | -HC-F8-RT4 | 0.30 (7.6) | 11/16 | 1.80 (45.7) |
| | 3/8 | -HC-F8-RT6 | 0.38 (9.7) | 11/16 | 1.81 (46.0) |
| | 1/2 | -HC-F8-RT8 | 0.38 (9.7) | 7/8 | 2.03 (51.6) |
| 5/8 | 3/8 | -HC-F10-RT6 | 0.38 (9.7) | 1 1/16 | 1.88 (47.8) |
| | 1/2 | -HC-F10-RT8 | 0.47 (11.9) | 1 1/16 | 2.07 (52.6) |
| | 3/4 | -HC-F10-RT12 | 0.50 (12.7) | 1 1/16 | 2.07 (52.6) |
| 3/4 | 1/2 | -HC-F12-RT8 | 0.47 (11.9) | 1 1/16 | 2.14 (54.4) |
| | 3/4 | -HC-F12-RT12 | 0.63 (16.0) | 1 1/16 | 2.14 (54.4) |
| | 1 | -HC-F12-RT16 | 0.63 (16.0) | 1 3/8 | 2.43 (61.7) |
| 1 | 3/4 | -HC-F16-RT12 | 0.63 (16.0) | 1 3/8 | 2.38 (60.5) |
| | 1 | -HC-F16-RT16 | 0.88 (22.4) | 1 3/8 | 2.57 (65.3) |

Female BSPT



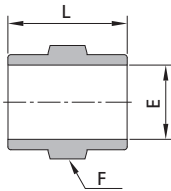
| Hose ID | BSPT Size | Basic Ordering Number | Dimensions | | |
|---------|-----------|-----------------------|-------------------------|--------|-------------|
| | | | Minimum Inside Diameter | F | L |
| in. | | | in. (mm) | in. | in. (mm) |
| 1/8 | 1/8 | -HC-F2-FRT2 | 0.08 (2.0) | 9/16 | 1.11 (28.2) |
| | 1/4 | -HC-F2-FRT4 | 0.08 (2.0) | 3/4 | 1.26 (32.0) |
| 3/16 | 1/8 | -HC-F3-FRT2 | 0.13 (3.3) | 9/16 | 1.29 (32.8) |
| | 1/4 | -HC-F3-FRT4 | 0.13 (3.3) | 3/4 | 1.44 (36.6) |
| 1/4 | 1/8 | -HC-F4-FRT2 | 0.19 (4.8) | 9/16 | 1.47 (37.3) |
| | 1/4 | -HC-F4-FRT4 | 0.19 (4.8) | 3/4 | 1.64 (41.7) |
| | 3/8 | -HC-F4-FRT6 | 0.19 (4.8) | 7/8 | 1.71 (43.4) |
| 5/16 | 1/4 | -HC-F5-FRT4 | 0.19 (4.8) | 3/4 | 1.73 (43.9) |
| | 3/8 | -HC-F5-FRT6 | 0.19 (4.8) | 7/8 | 1.82 (46.2) |
| 3/8 | 1/4 | -HC-F6-FRT4 | 0.30 (7.6) | 3/4 | 1.69 (42.9) |
| | 3/8 | -HC-F6-FRT6 | 0.30 (7.6) | 7/8 | 1.78 (45.2) |
| | 1/2 | -HC-F6-FRT8 | 0.30 (7.6) | 1 1/16 | 2.03 (51.6) |
| 1/2 | 1/2 | -HC-F8-FRT8 | 0.38 (9.7) | 1 1/16 | 2.13 (54.1) |

Metric Thread



| Hose ID | Thread Size | Basic Ordering Number | Dimensions | | |
|---------|-------------|-----------------------|-------------------------|----|-------------|
| | | | Minimum Inside Diameter | F | L |
| mm | in. | | in. (mm) | mm | in. (mm) |
| 6 | M10 x 1 | -HC-M6-MS10 | 4.3 (0.17) | 12 | 39.6 (1.54) |
| | M12 x 1.5 | -HC-M6-MS12 | 4.3 (0.17) | 14 | 40.4 (1.59) |
| | M14 x 1.5 | -HC-M6-MS14 | 4.3 (0.17) | 15 | 42.2 (1.66) |
| 8 | M14 x 1.5 | -HC-M8-MS14 | 4.8 (0.19) | 15 | 44.2 (1.74) |
| | M16 x 1.5 | -HC-M8-MS16 | 4.8 (0.19) | 18 | 46.2 (1.82) |
| 10 | M16 x 1.5 | -HC-M10-MS16 | 7.9 (0.31) | 18 | 46.2 (1.82) |
| | M18 x 1.5 | -HC-M10-MS18 | 7.9 (0.31) | 19 | 47.2 (1.86) |
| 12 | M20 x 1.5 | -HC-M12-MS20 | 8.9 (0.35) | 22 | 50.3 (1.98) |
| | M22 x 1.5 | -HC-M12-MS22 | 8.9 (0.35) | 24 | 52.8 (2.08) |

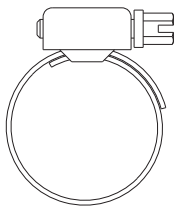
Hose Connector Sleeves



| Hose ID | Hose OD | Ordering Number | Dimensions, in. (mm) | | |
|---------|---------|-----------------|----------------------|-------|-------------|
| | | | E | F | L |
| in. | in. | | | | |
| 1/8 | 1/4 | AL-HC-F2-F4 | 0.26 (6.6) | 3/8 | 0.40 (10.2) |
| 1/4 | 3/8 | AL-HC-F4-F6 | 0.41 (10.4) | 9/16 | 0.79 (20.1) |
| 1/4 | 7/16 | AL-HC-F4-F7 | 0.46 (11.7) | 5/8 | 0.79 (20.1) |
| 1/4 | 1/2 | AL-HC-F4-F8 | 0.52 (13.2) | 11/16 | 0.79 (20.1) |
| 5/16 | 7/16 | AL-HC-F5-F7 | 0.48 (12.2) | 5/8 | 0.87 (22.1) |
| 3/8 | 1/2 | AL-HC-F6-F8 | 0.55 (14.0) | 11/16 | 0.87 (22.1) |
| 3/8 | 9/16 | AL-HC-F6-F9 | 0.61 (15.5) | 3/4 | 0.87 (22.1) |
| 7/16 | 5/8 | AL-HC-F7-F10 | 0.69 (17.5) | 13/16 | 0.94 (23.9) |
| 1/2 | 11/16 | AL-HC-F8-F11 | 0.76 (19.3) | 7/8 | 0.94 (23.9) |
| 3/4 | 1 | AL-HC-F12-F16 | 1.10 (27.9) | 1 1/4 | 1.07 (27.2) |

- ⦿ Material: Aluminum
- ⦿ Reusable

Hose Clamps

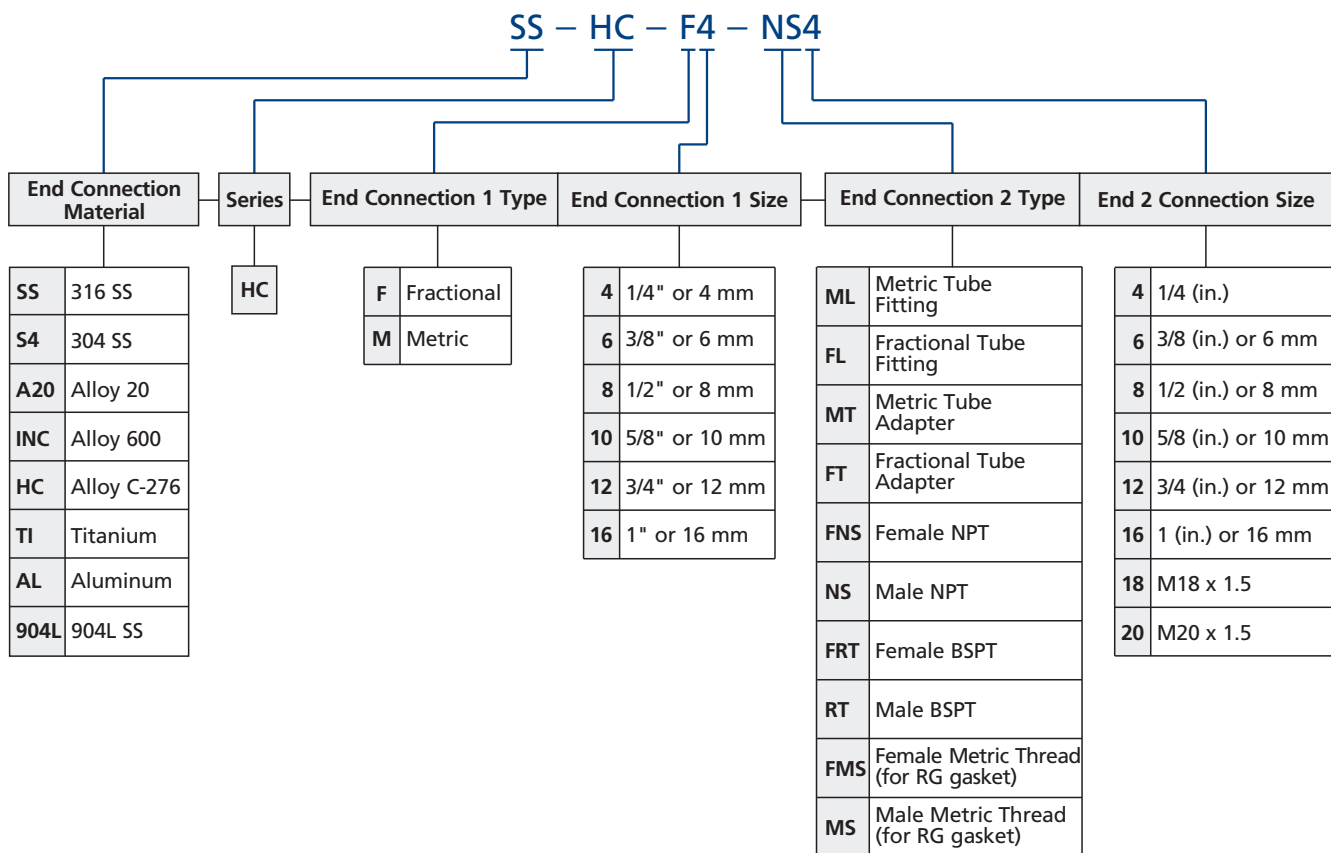


| Min. Hose OD | Max. Hose OD | Ordering Number |
|--------------|--------------|-----------------|
| mm | mm | |
| 8 | 12 | CP8-12 |
| 10 | 16 | CP10-16 |
| 12 | 20 | CP12-20 |
| 16 | 25 | CP16-25 |
| 20 | 32 | CP20-32 |
| 25 | 40 | CP25-40 |

- ⦿ Material: 304 SS
- ⦿ Reusable

1. Sizes and types listed are standard. Other sizes and types are available upon request.
2. All dimensions are for reference only and are subject to change. For dimensions not shown above, please contact FITOK Group or our authorized distributors.

Ordering Number Description



Example: SS-HC-F4-FT6

SS: End connection material is 316 stainless steel.

HC: HC series.

F4: Hose ID is 1/4" .

FT6: End connection 2 is 3/8" tube adapter.

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

Quick-connects

QC, QF, QV, QM and QTM Series



Contents

QC Series



D-27

QF Series



D-36

QV Series



D-41

QM Series



D-44

QTM Series



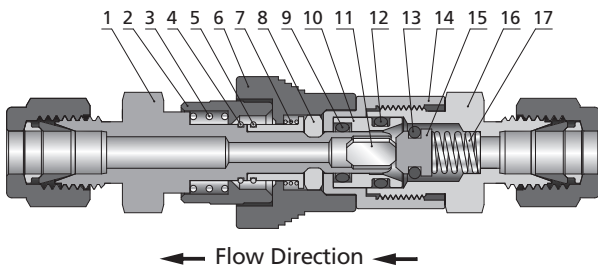
D-48

QC Series

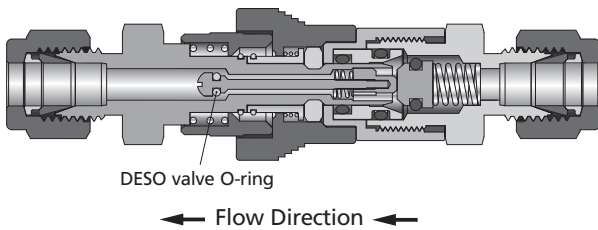
Features

- 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 model available
- Push-to-connect coupling to enable quick and easy operation
- Locking mechanism with large contact area to ensure reliable stem retention

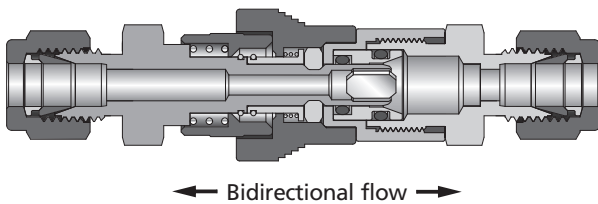
Single-end Shutoff (SESO)



Double-end Shutoff (DESO) - Red Stem Sleeve



Full-flow Quick-connects



Standard Materials of Construction

| Item | Component | Stainless Steel | Brass |
|------|------------------|--|------------------------------|
| | | Material Grade/ASTM Standard | |
| 1 | Stem | 316 SS/A479 | Brass C36000/B16 |
| 2 | DESO stem sleeve | PTFE-coated 316L SS/A479 | PTFE-coated Brass C36000/B16 |
| | SESO stem sleeve | 316L SS/A479 | Brass C36000/B16 |
| 3 | Springs | 316 SS/A313 | |
| 4 | Snap rings | 316 SS/A313 | |
| 5 | | | |
| 6 | Body sleeve | 316L SS/A479 | 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/A479 | 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 | 316L SS/A479 | Brass C36000/B16 |
| 15 | Plug | 316 SS/A479 | Brass C36000/B16 |
| 16 | Body | 316 SS/A479 | Brass C36000/B16 |
| 17 | Springs | 316 SS/A313 | |
| 18 | Lubricants | Silicone-based | |

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 |

Pressure-Temperature Ratings

Pressure rating restrictions apply when coupling and uncoupling (DESO only). Refer to the tables below for specific data.

QC4 Series

| Material | 316 SS | | | Brass |
|---|-----------------------------|--------------------|-----------------------|------------|
| O-Ring Material | Fluorocarbon FKM | Ethylene propylene | Perfluoro-carbon FFKM | Buna N |
| Temperature °F (°C) | Pressure Rating, psig (bar) | | | |
| Coupled | | | | |
| -50 (-45) | — | 3000 (206) | — | — |
| 0 (-17) | 3000 (206) | 3000 (206) | 3000 (206) | 2000 (137) |
| 10 (-12) | 3000 (206) | 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 (895) |
| 200 (93) | 2300 (158) | 2300 (158) | 2300 (158) | 700 (48) |
| 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 (34.4) | — |
| 500 (260) | — | — | 150 (10.3) | — |
| Uncoupled and When Coupling and Uncoupling | | | | |
| 70 (20) | 250 (17.2) | | | |

QC6 Series

| Material | 316 SS | | | Brass | |
|---|-----------------------------|--------------------|-----------------------|-------------|--|
| O-Ring Material | Fluorocarbon FKM | Ethylene propylene | Perfluoro-carbon FFKM | Buna N | |
| Temperature °F (°C) | Pressure Rating, psig (bar) | | | | |
| Coupled | | | | | |
| -50 (-45) | — | 1500 (103) | — | — | |
| 0 (-17) | 1500 (103) | 1500 (103) | 1500 (103) | 1000 (68.9) | |
| 10 (-12) | 1500 (103) | 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) | | | | |

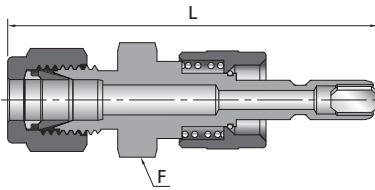
QC8 Series

| Material | 316 SS | | | Brass |
|---|-----------------------------|--------------------|-----------------------|------------|
| O-Ring Material | Fluorocarbon FKM | Ethylene propylene | Perfluoro-carbon FFKM | Buna N |
| Temperature °F (°C) | Pressure Rating, psig (bar) | | | |
| Coupled | | | | |
| -50 (-45) | — | 750 (51.6) | — | — |
| 0 (-17) | 750 (51.6) | 750 (51.6) | 750 (51.6) | 500 (34.4) |
| 10 (-12) | 750 (51.6) | 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) | | | |

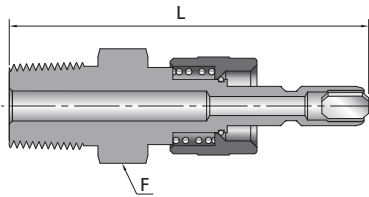
Dimensions

SESO Stems

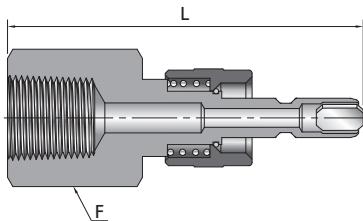
Tube Fitting



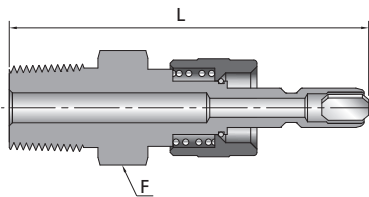
Male NPT



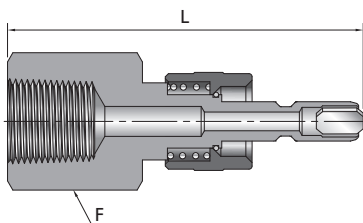
Female NPT



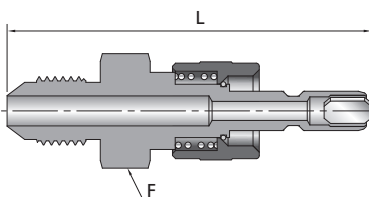
Male BSPT



Female BSPT



Male JIC(AN) 37° Flare



| Fitting Size in. | Basic Ordering Number | Flow Coefficient (Cv) | Dimensions | |
|---------------------|-----------------------|-----------------------|------------|-------------|
| | | | F | L |
| | | | 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) |

| NPT Size in. | Basic Ordering Number | Flow Coefficient (Cv) | Dimensions | |
|-----------------|-----------------------|-----------------------|------------|-------------|
| | | | F | L |
| | | | 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) |

| NPT Size in. | Basic Ordering Number | Flow Coefficient (Cv) | Dimensions | |
|-----------------|-----------------------|-----------------------|------------|-------------|
| | | | F | L |
| | | | 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) |

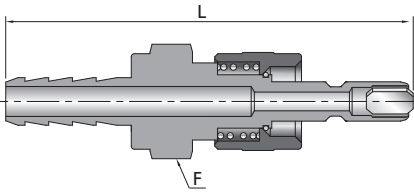
| BSPT Size in. | Basic Ordering Number | Flow Coefficient (Cv) | Dimensions | |
|------------------|-----------------------|-----------------------|------------|-------------|
| | | | F | L |
| | | | in. | in. (mm) |
| 1/8 | -QC4-RT2-S | 0.3 | 5/8 | 2.07 (52.6) |
| 1/4 | -QC4-RT4-S | 0.3 | 5/8 | 2.22 (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) |

| BSPT Size in. | Basic Ordering Number | Flow Coefficient (Cv) | Dimensions | |
|------------------|-----------------------|-----------------------|------------|-------------|
| | | | F | L |
| | | | 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) |

| Fitting Size in. | Basic Ordering Number | Flow Coefficient (Cv) | Dimensions | |
|---------------------|-----------------------|-----------------------|------------|-------------|
| | | | F | L |
| | | | 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) |

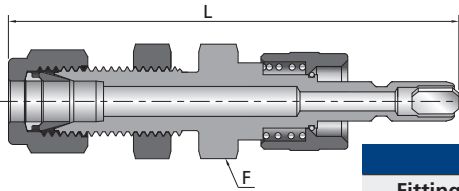
D-30 Quick-connects

Hose Connector



| Hose Size in. | Basic Ordering Number | Flow Coefficient (Cv) | Dimensions | |
|---------------|-----------------------|-----------------------|------------|-------------|
| | | | F in. | L 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) |

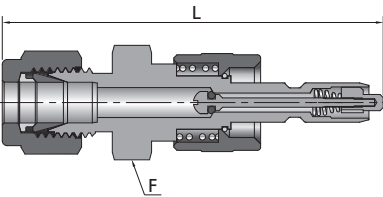
Bulkhead Tube Fitting



| Fitting Size in. | Basic Ordering Number | Flow Coefficient (Cv) | Dimensions | | Min. Panel Orifice in. (mm) | Max. Panel Thickness in. (mm) |
|------------------|-----------------------|-----------------------|------------|-------------|-----------------------------|-------------------------------|
| | | | F in. | L 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) |

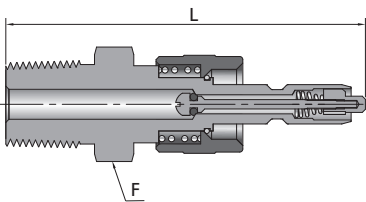
DESO Stems

Tube Fitting



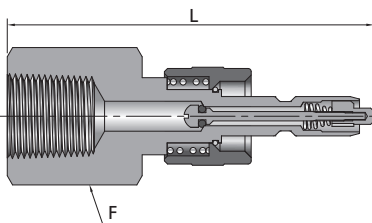
| Fitting Size in. | Basic Ordering Number | Flow Coefficient (Cv) | Dimensions | |
|------------------|-----------------------|-----------------------|------------|-------------|
| | | | F in. | L in. (mm) |
| 1/8 | -QC4-FL2-D | 0.08 | 5/8 | 2.77 (70.4) |
| 1/4 | -QC4-FL4-D | 0.2 | 5/8 | 2.42 (61.5) |
| 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



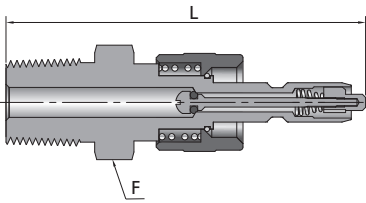
| BSPT Size in. | Basic Ordering Number | Flow Coefficient (Cv) | Dimensions | |
|---------------|-----------------------|-----------------------|------------|-------------|
| | | | F in. | L in. (mm) |
| 1/8 | -QC4-NS2-D | 0.2 | 5/8 | 2.13 (54.1) |
| 1/4 | -QC4-NS4-D | 0.2 | 5/8 | 2.28 (57.8) |
| 1/4 | -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



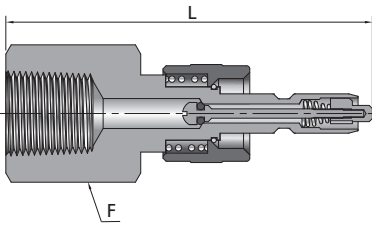
| BSPT Size in. | Basic Ordering Number | Flow Coefficient (Cv) | Dimensions | |
|---------------|-----------------------|-----------------------|------------|-------------|
| | | | F in. | L in. (mm) |
| 1/8 | -QC4-FNS2-D | 0.2 | 5/8 | 2.07 (52.6) |
| 1/4 | -QC4-FNS4-D | 0.2 | 3/4 | 2.32 (58.9) |
| 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) |

Male BSPT



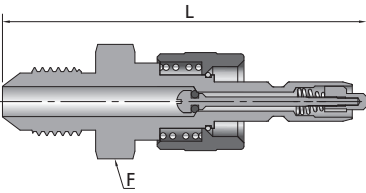
| BSPT Size in. | Basic Ordering Number | Flow Coefficient (Cv) | Dimensions | |
|---------------|-----------------------|-----------------------|------------|-------------|
| | | | F | L |
| | | | in. | in. (mm) |
| 1/8 | -QC4-RT2-D | 0.2 | 5/8 | 2.13 (54.1) |
| 1/4 | -QC4-RT4-D | 0.2 | 5/8 | 2.28 (57.8) |
| 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



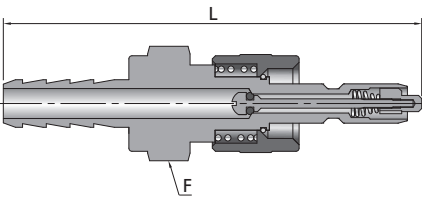
| BSPT Size in. | Basic Ordering Number | Flow Coefficient (Cv) | Dimensions | |
|---------------|-----------------------|-----------------------|------------|-------------|
| | | | F | L |
| | | | in. | in. (mm) |
| 1/8 | -QC4-FRT2-D | 0.2 | 5/8 | 2.07 (52.6) |
| 1/4 | -QC4-FRT4-D | 0.2 | 3/4 | 2.32 (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



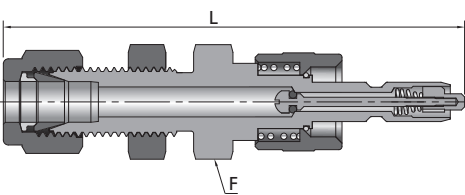
| Fitting Size in. | Basic Ordering Number | Flow Coefficient (Cv) | Dimensions | |
|------------------|-----------------------|-----------------------|------------|-------------|
| | | | F | L |
| | | | in. | in. (mm) |
| 1/4 | -QC4-AN4-D | 0.2 | 5/8 | 2.29 (58.2) |
| 3/8 | -QC6-AN6-D | 0.5 | 3/4 | 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) | Dimensions | |
|---------------|-----------------------|-----------------------|------------|-------------|
| | | | 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) |

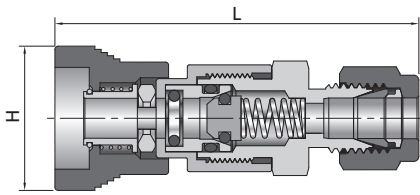
Bulkhead Tube Fitting



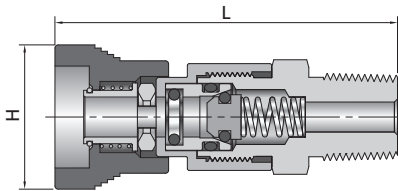
| Fitting Size in. | Basic Ordering Number | Flow Coefficient (Cv) | Dimensions | | Min. Panel Orifice in. (mm) | Max. Panel Thickness in. (mm) |
|------------------|-----------------------|-----------------------|------------|-------------|-----------------------------|-------------------------------|
| | | | F | L | | |
| | | | 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

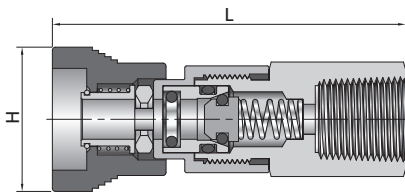
Tube Fitting



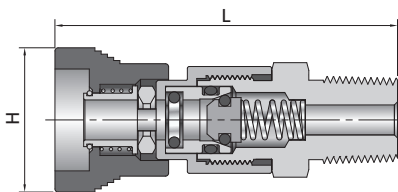
Male NPT



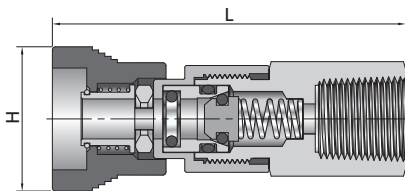
Female NPT



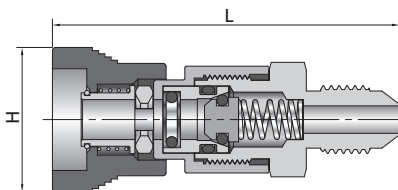
Male BSPT



Female BSPT



Male JIC (AN) 37° Flare



| Fitting Size in. | Basic Ordering Number | Dimensions | |
|---------------------|-----------------------|-------------|---------------|
| | | H in. | L 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 in. | Basic Ordering Number | Dimensions | |
|-----------------|-----------------------|-------------|---------------|
| | | H in. | L 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) |

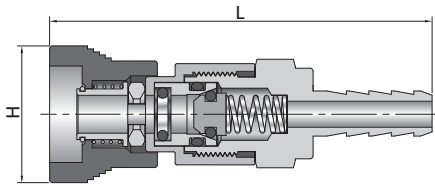
| NPT Size in. | Basic Ordering Number | Dimensions | |
|-----------------|-----------------------|-------------|---------------|
| | | H in. | L in. (mm) |
| 1/8 | -QC4-FNS2-B | 0.91 (23.1) | 2.16 (54.9) |
| 1/4 | -QC4-FNS4-B | 0.91 (23.1) | 2.42 (61.5) |
| 1/4 | -QC6-FNS4-B | 1.03 (26.2) | 2.54 (64.5) |
| 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 in. | Basic Ordering Number | Dimensions | |
|------------------|-----------------------|-------------|---------------|
| | | H in. | L 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 in. | Basic Ordering Number | Dimensions | |
|------------------|-----------------------|-------------|---------------|
| | | H in. | L 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) |

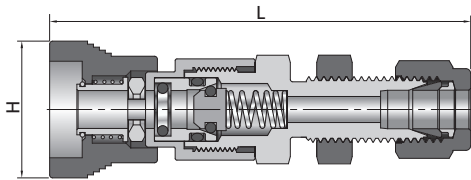
| Fitting Size in. | Basic Ordering Number | Dimensions | |
|---------------------|-----------------------|-------------|---------------|
| | | H in. | L in. (mm) |
| 1/4 | -QC4-AN4-B | 0.91 (23.1) | 2.17 (55.1) |
| 3/8 | -QC6-AN6-B | 1.03 (26.2) | 2.41 (61.2) |
| 1/2 | -QC8-AN8-B | 1.21 (30.7) | 2.92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

Hose Connector



| Hose Size in. | Basic Ordering Number | Dimensions | |
|---------------|-----------------------|-------------|-------------|
| | | H in. | L 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) |

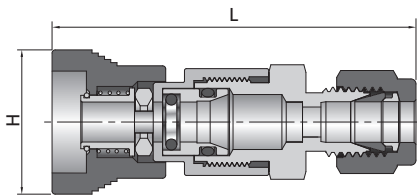
Bulkhead Tube Fitting



| Fitting Size in. | Basic Ordering Number | Dimensions | | Min. Panel Orifice in. (mm) | Max. Panel Thickness in. (mm) |
|------------------|-----------------------|-------------|-------------|-----------------------------|-------------------------------|
| | | H in. | L 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) |

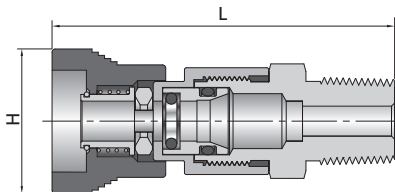
Full-flow Bodies

Tube Fitting



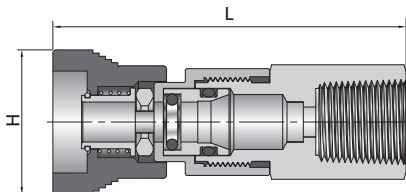
| Fitting Size in. | Basic Ordering Number | Dimensions | |
|------------------|-----------------------|-------------|-------------|
| | | H in. | L in. (mm) |
| 1/8 | -QC4-FL2-F | 0.91 (23.1) | 2.26 (57.4) |
| 1/4 | -QC4-FL4-F | 0.91 (23.1) | 2.30 (58.4) |
| 3/8 | -QC6-FL6-F | 1.03 (26.2) | 2.58 (65.5) |
| 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



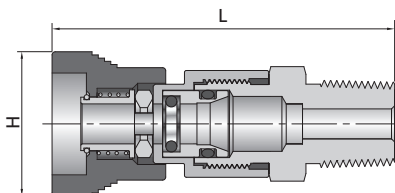
| NPT Size in. | Basic Ordering Number | Dimensions | |
|--------------|-----------------------|-------------|-------------|
| | | H in. | L in. (mm) |
| 1/8 | -QC4-NS2-F | 0.91 (23.1) | 2.01 (51.1) |
| 1/4 | -QC4-NS4-F | 0.91 (23.1) | 2.16 (54.9) |
| 1/4 | -QC6-NS4-F | 1.03 (26.2) | 2.38 (60.5) |
| 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 in. | Basic Ordering Number | Dimensions | |
|--------------|-----------------------|-------------|-------------|
| | | H in. | L 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

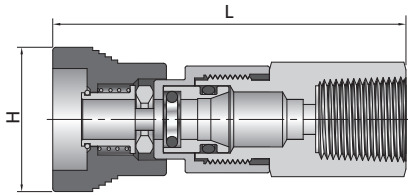


| BSPT Size in. | Basic Ordering Number | Dimensions | |
|---------------|-----------------------|-------------|-------------|
| | | H in. | L in. (mm) |
| 1/8 | -QC4-RT2-F | 0.91 (23.1) | 2.01 (51.1) |
| 1/4 | -QC4-RT4-F | 0.91 (23.1) | 2.16 (54.9) |
| 1/4 | -QC6-RT4-F | 1.03 (26.2) | 2.38 (60.5) |
| 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) |

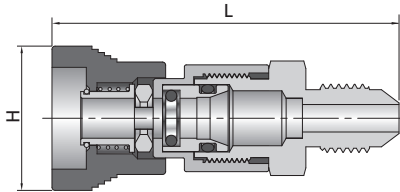
Hoses Quick-connects

D-34 Quick-connects

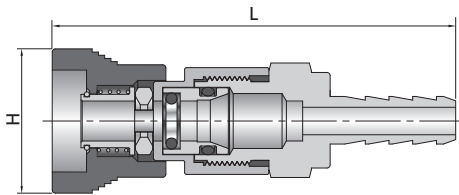
Female BSPT



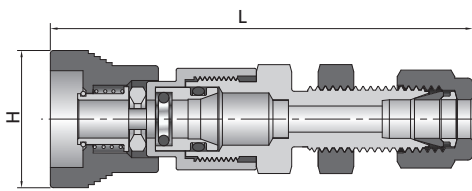
Male JIC (AN) 37° Flare



Hose Connector



Bulkhead Tube Fitting



| BSPT Size in. | Basic Ordering Number | Dimensions | |
|---------------|-----------------------|-------------|-------------|
| | | H in. | L 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) |

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

| Hose Size in. | Basic Ordering Number | Dimensions | |
|---------------|-----------------------|-------------|-------------|
| | | H in. | L 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) |

| Fitting Size in. | Basic Ordering Number | Dimensions | | Min. Panel Orifice in. (mm) | Max. Panel Thickness in. (mm) |
|------------------|-----------------------|-------------|-------------|-----------------------------|-------------------------------|
| | | H in. | L 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

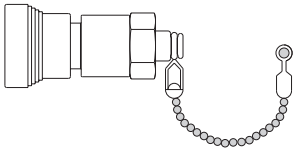
| Key Number | Color | QC4 | | QC6 | | QC8 | |
|------------|--------|-------------|-------------|-------------|-------------|-------------|-------------|
| | | Body Sleeve | Stem Sleeve | Body Sleeve | Stem Sleeve | Body Sleeve | Stem Sleeve |
| | | in. (mm) | in. (mm) | in. (mm) | in. (mm) | in. (mm) | 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

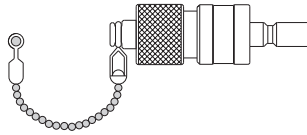
Stem and body protector can prevent the stem and the body from being damaged and polluted when uncoupling.

Stem Protector



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

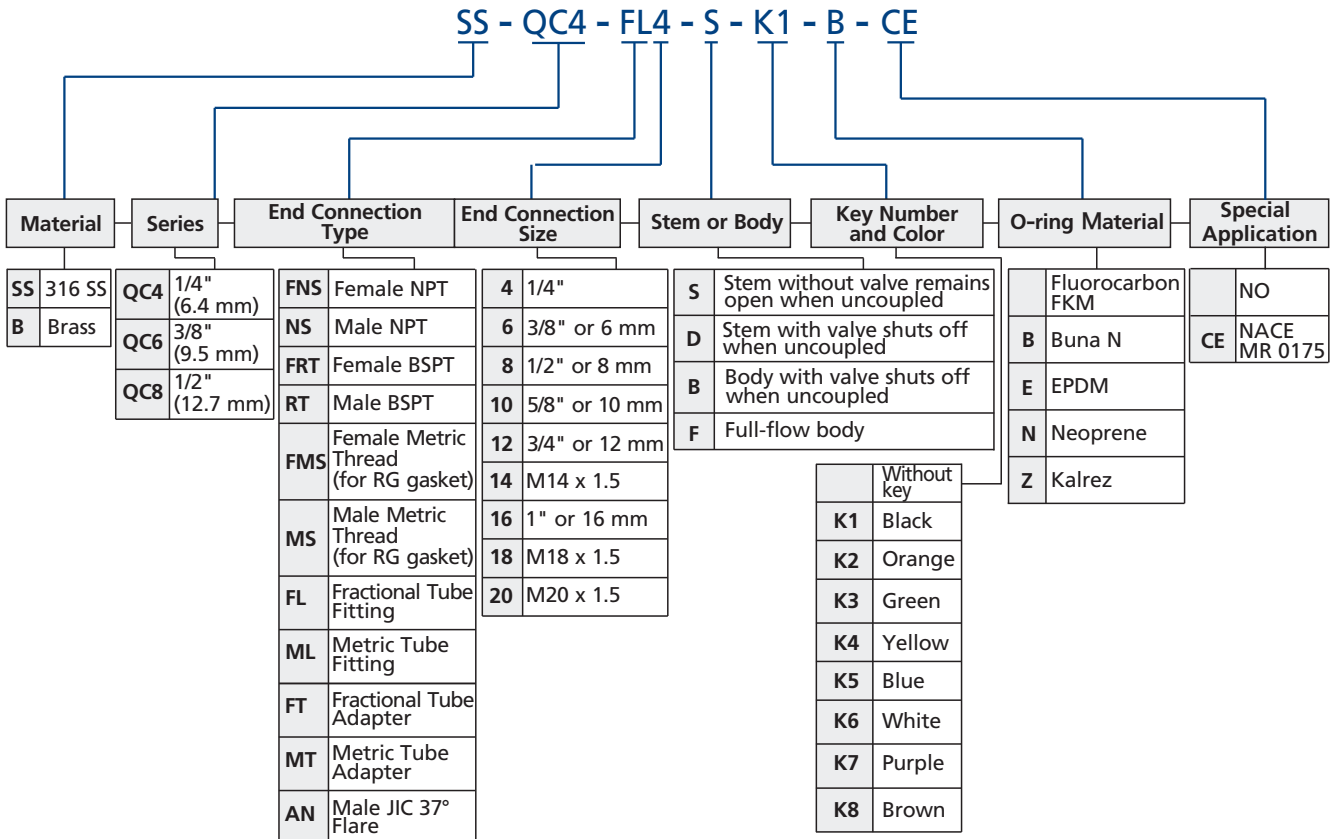
Body Protector



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

- Ordering number description of the protector: Material designator (SS for stainless steel or B for brass) + Basic Ordering Number.
Example: **SS-QC4-BP**
- Ordering number description of the keyed protector: Material designator (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. To order it, please contact FITOK Group or our authorized distributors.

Ordering Number Description

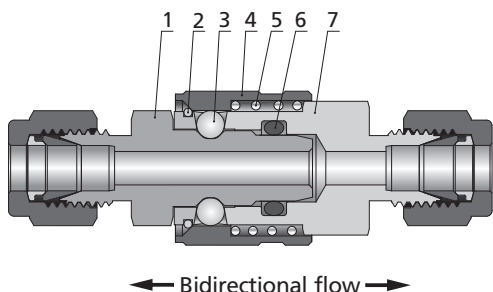


- Note: 1. "Ordering Number Description" is a reference to understand the combination rules of FITOK product part number. Not all combinations are available.
2. Dimensions are for reference only and are subject to change.

QF Series

Features

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



Standard Materials of Construction

| Item | Component | Stainless Steel | Brass |
|------|----------------|------------------------------|------------------|
| | | Material Grade/ASTM Standard | |
| 1 | Stem | 316 SS/A479 | Brass C36000/B16 |
| 2 | Snap rings | 316 SS/A313 | |
| 3 | Locking balls | 440C/A276 | |
| 4 | Sliding sleeve | 316L SS/A479 | C36000/B16 |
| 5 | Springs | 316 SS/A313 | |
| 6 | O-rings | Fluorocarbon FKM | Buna N |
| 7 | Body | 316 SS/A479 | Brass C36000/B16 |
| 8 | Lubricants | Silicone-based | |

Insertion Depth

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

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

Pressure-Temperature Ratings

1. Pressure ratings may be limited by end connections.
2. Quick-connects in compliance with NACE MR0175 are subject to a lower pressure rating. For more information, please Contact FITOK Group or our authorized distributors.
3. Do not uncouple under pressure.

QF4 Series and QF8 Series

| Material | 316 SS | | | Brass | |
|---------------------|-----------------------------|--------------------|----------------------|-------------|-------------|
| | Fluorocarbon FKM | Ethylene propylene | Perfluorocarbon FFKM | Buna N | |
| Series | QF4 and QF8 | | | QF4 | QF8 |
| Temperature °F (°C) | Pressure Rating, psig (bar) | | | | |
| Coupled | | | | | |
| -50 (-45) | — | 6000 (413) | — | — | — |
| 0 (-17) | 6000 (413) | 6000 (413) | 6000 (413) | 4000 (275) | 3000 (206) |
| 10 (-12) | 6000 (413) | 6000 (413) | 6000 (413) | 4000 (275) | 3000 (206) |
| 40 (4) | 6000 (413) | 6000 (413) | 6000 (413) | 4000 (275) | 3000 (206) |
| 100 (37) | 6000 (413) | 6000 (413) | 6000 (413) | 4000 (275) | 3000 (206) |
| 150 (65) | 5000 (344) | 4000 (275) | 5000 (344) | 2700 (186) | 2000 (137) |
| 200 (93) | 4000 (275) | 2700 (186) | 4000 (275) | 1400 (96.4) | 1000 (68.9) |
| 250 (121) | 3000 (206) | 1400 (96.4) | 3000 (206) | 300 (20.6) | 300 (20.6) |
| 300 (148) | 2000 (137) | 400 (27.5) | 2000 (137) | — | — |
| 350 (176) | 1200 (82.6) | — | 1200 (82.6) | — | — |
| 400 (204) | 400 (27.5) | — | 400 (27.5) | — | — |
| 500 (260) | — | — | 200 (13.7) | — | — |

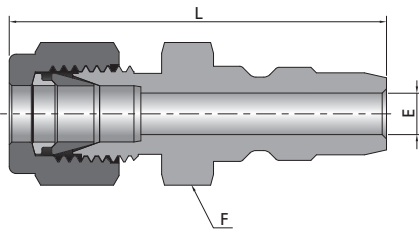
QF12 Series and QF16 Series

| Material | 316 SS | | | Brass |
|---------------------|-----------------------------|--------------------|----------------------|-------------|
| O-Ring Material | Fluorocarbon FKM | Ethylene propylene | Perfluorocarbon FFKM | Buna N |
| Temperature °F (°C) | Pressure Rating, psig (bar) | | | |
| Coupled | | | | |
| -50 (-45) | — | 4000 (275) | — | — |
| 0 (-17) | 4000 (275) | 4000 (275) | 4000 (275) | 2000 (137) |
| 10 (-12) | 4000 (275) | 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) | 2000 (137) | 3500 (241) | 1300 (89.5) |
| 200 (93) | 2800 (192) | 1300 (89.5) | 2800 (192) | 700 (48.2) |
| 250 (121) | 2100 (144) | 700 (48.2) | 2100 (144) | 200 (13.7) |
| 300 (148) | 1400 (96.4) | 200 (13.7) | 1400 (96.4) | — |
| 350 (176) | 800 (55.1) | — | 800 (55.1) | — |
| 400 (204) | 200 (13.7) | — | 200 (13.7) | — |
| 500 (260) | — | — | 150 (10.3) | — |

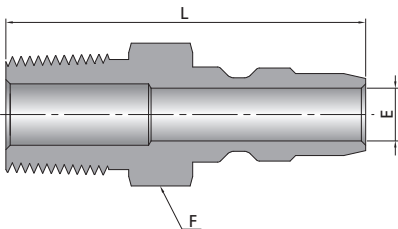
Dimensions

Stems

Tube Fitting



Male NPT

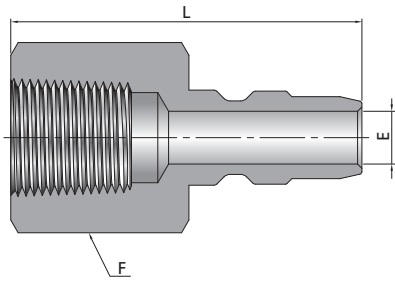


| Fitting Size in. | Basic Ordering Number | Flow Coefficient (Cv) | Dimensions | | |
|------------------|-----------------------|-----------------------|-------------|--------|-------------|
| | | | E | F | L |
| | | | in. (mm) | in. | in. (mm) |
| 1/4 | -QF4-FL4-S | 2.2 | 0.19 (4.8) | 9/16 | 1.77 (45.0) |
| 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) |

| NPT Size in. | Basic Ordering Number | Flow Coefficient (Cv) | Dimensions | | |
|--------------|-----------------------|-----------------------|-------------|--------|-------------|
| | | | 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) |

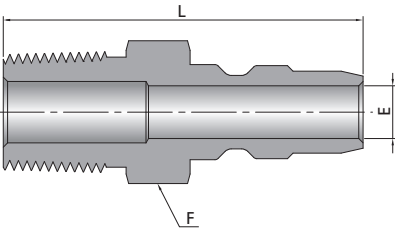
Stems

Female NPT



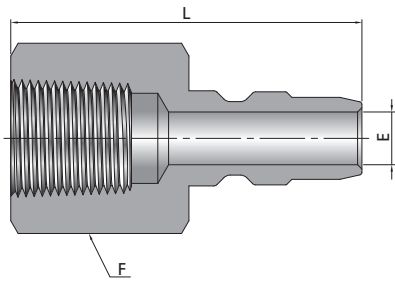
| NPT Size in. | Basic Ordering Number | Flow Coefficient (Cv) | Dimensions | | |
|--------------------|-----------------------------|-----------------------------|-------------|--------|-------------|
| | | | E | F | L |
| | | | in. (mm) | in. | in. (mm) |
| 1/4 | -QF4-FNS4-S | 1.7 | 0.24 (6.1) | 3/4 | 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 in. | Basic Ordering Number | Flow Coefficient (Cv) | Dimensions | | |
|---------------------|-----------------------------|-----------------------------|-------------|--------|-------------|
| | | | 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) |

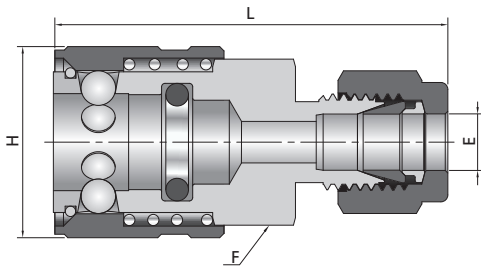
Female BSPT



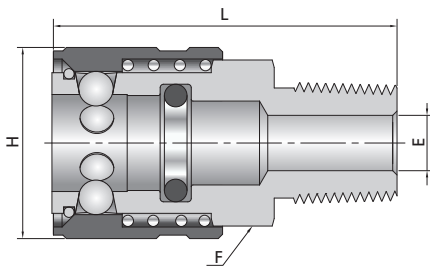
| BSPT Size in. | Basic Ordering Number | Flow Coefficient (Cv) | Dimensions | | |
|---------------------|-----------------------------|-----------------------------|-------------|--------|-------------|
| | | | E | F | L |
| | | | in. (mm) | in. | in. (mm) |
| 1/4 | -QF4-FRT4-S | 1.7 | 0.24 (6.1) | 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

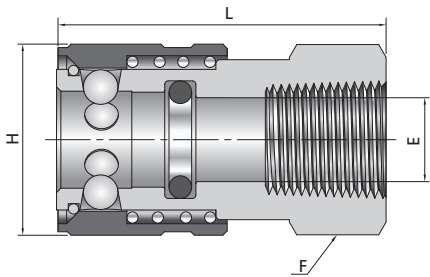
Tube Fitting



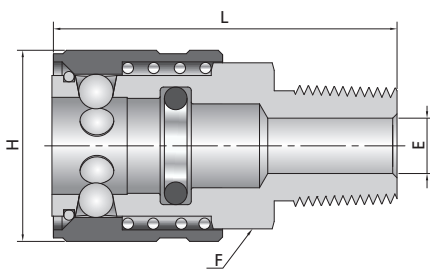
Male NPT



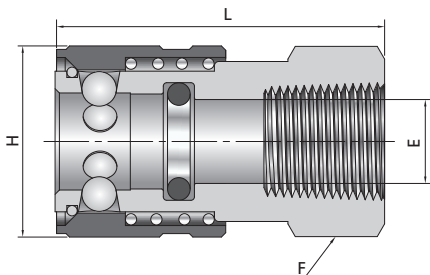
Female NPT



Male BSPT



Female BSPT



| Fitting Size in. | Basic Ordering Number | Dimensions | | | |
|------------------|-----------------------|-------------|---------|-------------|-------------|
| | | E in. (mm) | F in. | H in. (mm) | L 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) |

| NPT Size in. | Basic Ordering Number | Dimensions | | | |
|--------------|-----------------------|-------------|---------|-------------|-------------|
| | | E in. (mm) | F in. | H in. (mm) | L 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) |

| NPT Size in. | Basic Ordering Number | Dimensions | | | |
|--------------|-----------------------|-------------|---------|-------------|-------------|
| | | E in. (mm) | F in. | H in. (mm) | L 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) |

| BSPT Size in. | Basic Ordering Number | Dimensions | | | |
|---------------|-----------------------|-------------|---------|-------------|-------------|
| | | E in. (mm) | F in. | H in. (mm) | L 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) |

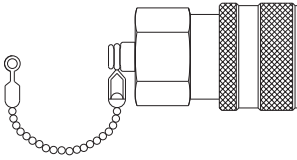
| BSPT Size in. | Basic Ordering Number | Dimensions | | | |
|---------------|-----------------------|-------------|---------|-------------|-------------|
| | | E in. (mm) | F in. | H in. (mm) | L in. (mm) |
| 1/4 | -QF4-FRT4-B | 0.38 (9.7) | 3/4 | 0.87 (22.1) | 1.50 (38.1) |
| 3/8 | -QF4-FRT6-B | 0.38 (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

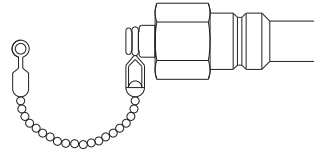
Stem and body protector can prevent the stem and the body from being damaged and polluted when uncoupling.

Stem Protector



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

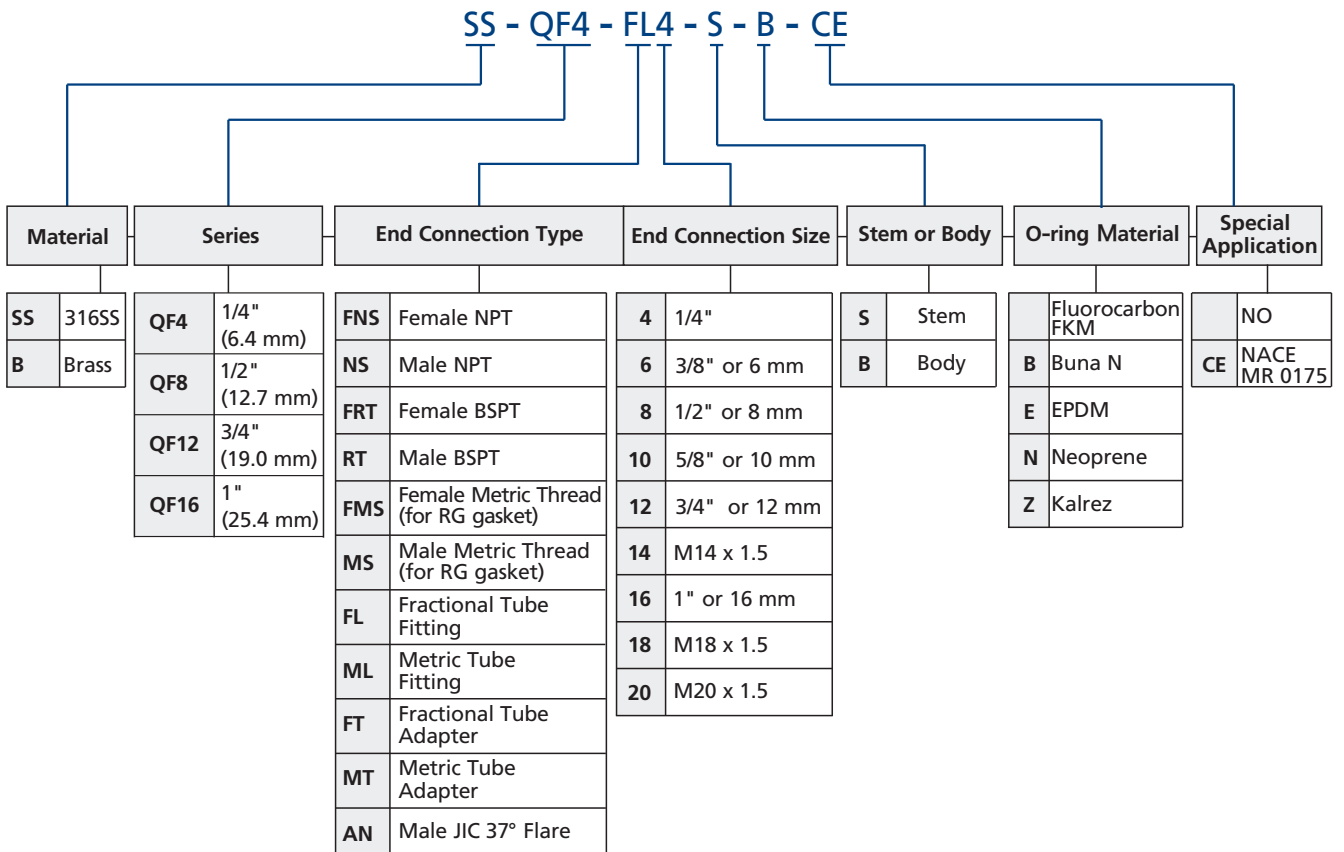
Body Protector



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

- Ordering number description of the protector: Material designator (SS for stainless steel or B for brass) + Basic Ordering Number.
Example: **SS-QF4-BP**
- The protector is not a pressure sustaining device. To order it, please contact FITOK Group or our authorized distributors.

Ordering Number Description

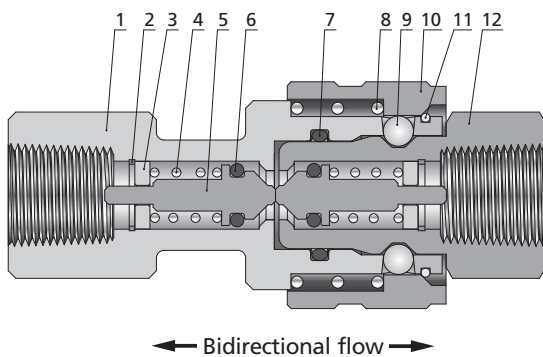


Note: 1. "Ordering Number Description" is a reference to understand the combination rules of FITOK product part number. Not all combinations are available.
2. Dimensions are for reference only and are subject to change.

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 are 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 with reliable sealing
- ⦿ Durable ball-locking mechanism to assure reliable connection



Standard Materials of Construction

| Item | Component | Stainless Steel | Brass |
|------|----------------|------------------------------|------------------|
| | | Material Grade/ASTM Standard | |
| 1 | Body | 316 SS/A479 | C36000/B16 |
| 2 | Locating ring | 304 SS | |
| 3 | Locating block | 316 SS/A276 | Brass C36000/B16 |
| 4 | Springs | 316 SS/A313 | |
| 5 | Valve Stem | 316 SS/A479 | C36000/B16 |
| 6 | O-rings | Fluorocarbon FKM | Buna N |
| 8 | Springs | 316 SS/A313 | |
| 9 | Locking balls | 440C/A276 | |
| 10 | Body sleeve | 316L SS/A479 | Brass C36000/B16 |
| 11 | Snap rings | 316 SS/A313 | |
| 12 | Stem | 316 SS/A479 | C36000/B16 |
| 13 | Lubricants | Silicone-based | |

Pressure-Temperature Ratings

Do not couple or uncouple under pressure.

| Body Material | Stainless Steel | | | | | | Brass | | | | | |
|--------------------------------|---------------------------------|-----|---------------|-----|----------------|------|---------------------------------|-----|-----|-----|-----|------|
| | Series | QV2 | QV4 | QV6 | QV8 | QV12 | QV16 | QV2 | QV4 | QV6 | QV8 | QV12 |
| 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) | | | | | |

Insertion Depth

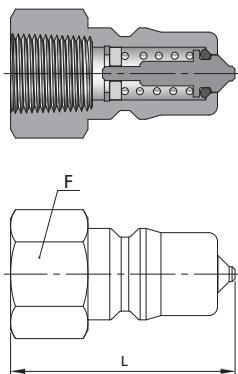
| Series | Insertion Depth |
|--------|-----------------|
| | in. (mm) |
| QV2 | 0.81 (20.5) |
| QV4 | 0.98 (25) |
| QV6 | 1.17 (29.7) |
| QV8 | 1.26 (32) |
| QV12 | 1.64 (41.6) |
| QV16 | 1.93 (49.1) |

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

Dimensions

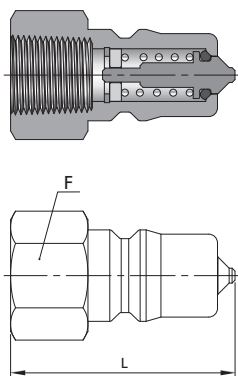
Stems

Female NPT



| NPT Size in. | Basic Ordering Number | Flow Coefficient (Cv) | Dimensions | |
|--------------|-----------------------|-----------------------|-------------|-------|
| | | | L in. (mm) | F 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 |

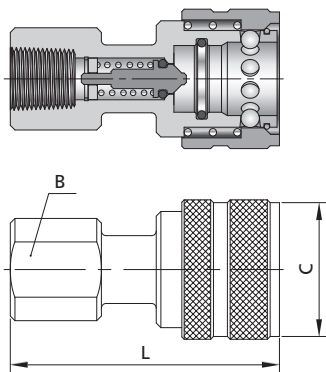
Female BSPT



| BSPT Size in. | Basic Ordering Number | Flow Coefficient (Cv) | Dimensions | |
|---------------|-----------------------|-----------------------|-------------|-------|
| | | | L in. (mm) | F 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 |

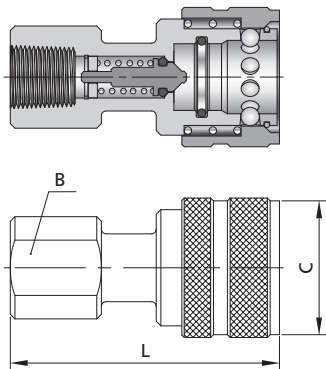
Bodies

Female NPT



| NPT Size in. | Basic Ordering Number | Dimensions | | |
|--------------|-----------------------|--------------|-------------|-------------|
| | | L in. (mm) | B in. (mm) | C 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



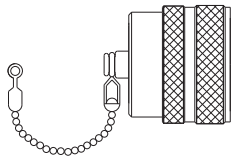
| BSPT Size in. | Basic Ordering Number | Dimensions | | |
|---------------|-----------------------|--------------|-------------|-------------|
| | | L in. (mm) | B in. (mm) | C in. (mm) |
| 1/8 | -QV2-FRT2-B | 1.90 (48.3) | 0.69 (17.5) | 0.96 (24.4) |
| 1/4 | -QV4-FRT4-B | 2.26 (57.4) | 0.81 (20.6) | 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

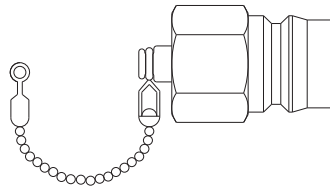
Stem and body protector can prevent the stem and the body from being damaged and polluted when uncoupling.

Stem Protector



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

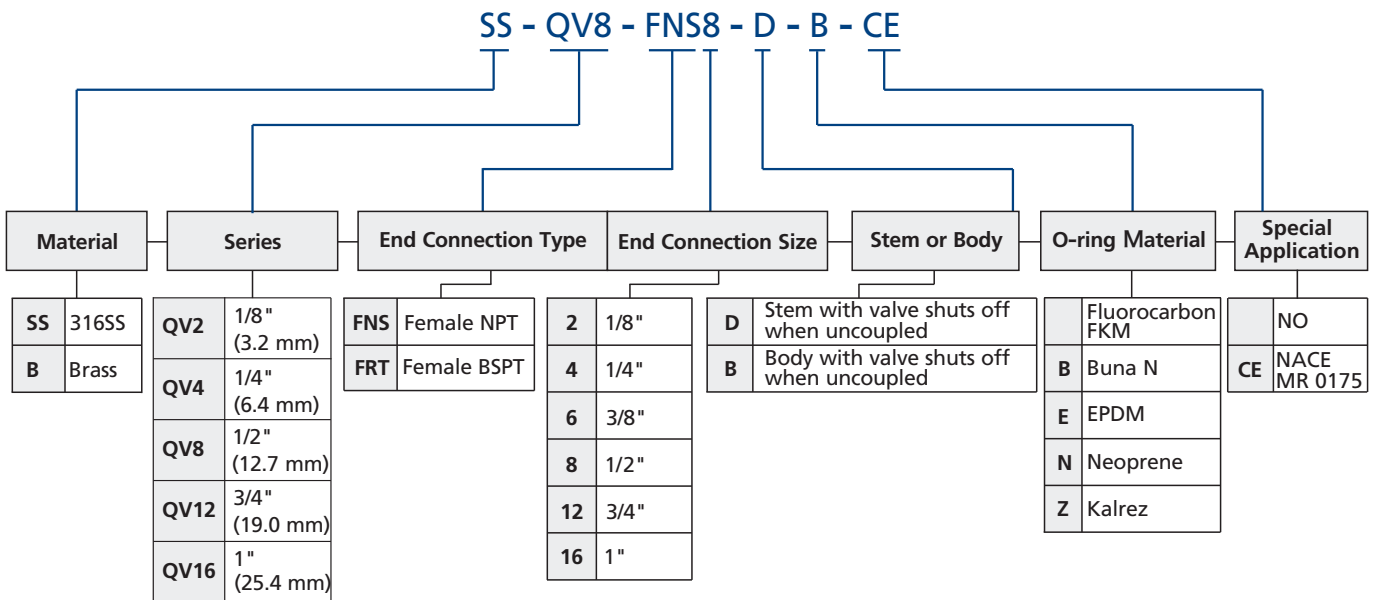
Body Protector



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

- Ordering number description of the protector: Material designator (SS for stainless steel or B for brass) + Basic Ordering Number.
Example: **SS-QV4-BP**
- The protector is not a pressure sustaining device. To order it, please contact FITOK Group or our authorized distributors.

Ordering Number Description



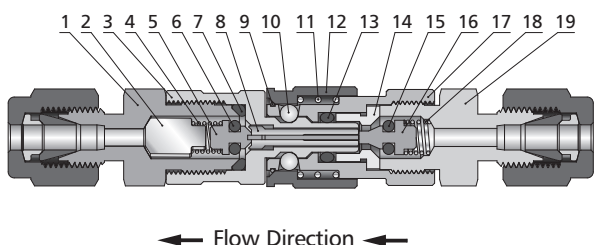
- Note: 1. "Ordering Number Description" is a reference to understand the combination rules of FITOK product part number. Not all combinations are available.
2. Dimensions are for reference only and are subject to change.

QM Series

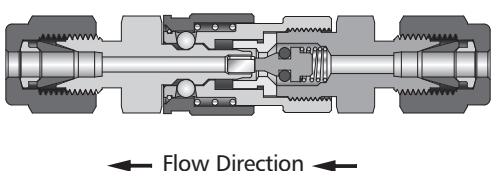
Features

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

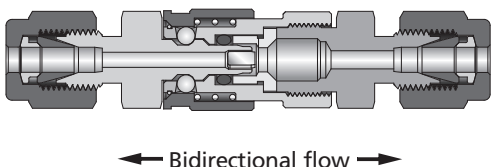
Double-end Shutoff (DESO)



Single-end Shutoff (SESO)



Full-flow Quick-connects



Insertion 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) |

Spillage and Air Inclusion

0.1cm³
(DESO only)

Standard Materials of Construction

| Item. | Component | Stainless Steel | Brass |
|-------|-------------|------------------------------|------------------|
| | | Material Grade/ASTM Standard | |
| 1 | Stem body | 316 SS/A479 | Brass C36000/B16 |
| 2 | Valve block | 316 SS/A240 | Brass C26000/B36 |
| 3 | Stem | 316 SS/A479 | Brass C36000/B16 |
| 4 | Springs | 316 SS/A313 | |
| 5 | Valve head | 316 SS/A479 | 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 | 316L SS/A479 | Brass C36000/B16 |
| 13 | O-rings | Fluorocarbon FKM | Buna N |
| 14 | Insert | 316 SS/A479 | Brass C36000/B16 |
| 15 | O-rings | Fluorocarbon FKM | Buna N |
| 16 | Valve head | 316 SS/A479 | Brass C36000/B16 |
| 17 | housing | 316 SS/A479 | Brass C36000/B16 |
| 18 | Springs | 316 SS/A313 | |
| 19 | Body | 316 SS/A479 | Brass C36000/B16 |
| 20 | Lubricants | Silicone-based | |

Pressure -Temperature Ratings

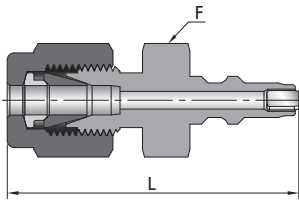
Pressure rating restrictions apply when coupling and uncoupling (DESO only). Refer to the table below for specific data.

| Material | 316 SS | | | Brass |
|---------------------|---|--------------------|----------------------|-------------|
| | Fluorocarbon FKM | Ethylene propylene | Perfluorocarbon FFKM | Buna N |
| O-Ring Material | | | | |
| Temperature °F (°C) | Pressure Rating, psig (bar) | | | |
| | Coupled | | | |
| -50 (-45) | — | 4000 (275) | — | — |
| 0 (-17) | 4000 (275) | 4000 (275) | 4000 (275) | 2000 (137) |
| 10 (-12) | 4000 (275) | 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) |
| 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) | | | |

Dimensions

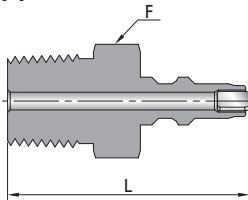
SESO Stems

Tube Fitting



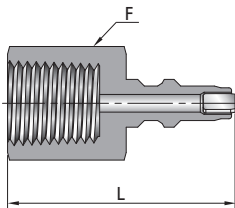
| Fitting Size in. | Basic Ordering Number | Flow Coefficient (Cv) | Dimensions | |
|------------------|-----------------------|-----------------------|-------------|------|
| | | | L | F |
| | | | in. (mm) | in. |
| 1/16 | QM-FL1-S | 0.06 | 1.18 (30.0) | 7/16 |
| 1/8 | QM-FL2-S | | 1.29 (32.8) | |

Male NPT



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

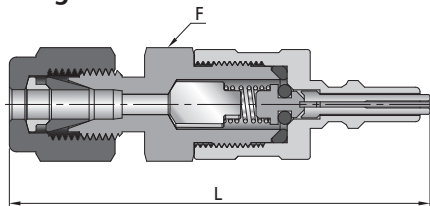
Female NPT



| NPT Size in. | Basic Ordering Number | Flow Coefficient (Cv) | Dimensions | |
|--------------|-----------------------|-----------------------|-------------|------|
| | | | L | F |
| | | | in. (mm) | in. |
| 1/16 | QM-FNS1-S | 0.06 | 1.03 (26.2) | 7/16 |
| 1/8 | QM-FNS2-S | | 1.18 (30.0) | 9/16 |

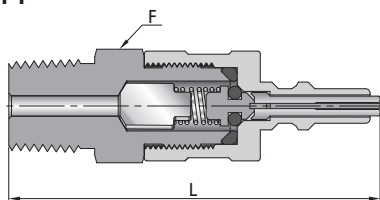
DESO Stems

Tube Fitting



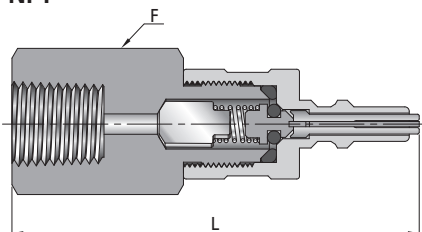
| Fitting Size in. | Basic Ordering Number | Flow Coefficient (Cv) | Dimensions | |
|------------------|-----------------------|-----------------------|-------------|------|
| | | | L | F |
| | | | in. (mm) | in. |
| 1/16 | QM-FL1-D | 0.05 | 1.76 (44.7) | 7/16 |
| 1/8 | QM-FL2-D | | 1.87 (47.5) | |

Male NPT



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

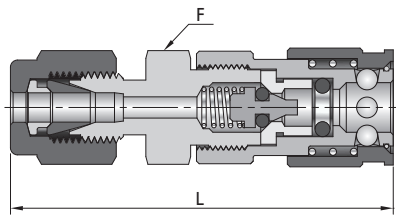
Female NPT



| NPT Size in. | Basic Ordering Number | Flow Coefficient (Cv) | Dimensions | |
|--------------|-----------------------|-----------------------|-------------|------|
| | | | L | F |
| | | | in. (mm) | in. |
| 1/16 | QM-FNS1-D | 0.05 | 1.61 (40.9) | 7/16 |
| 1/8 | QM-FNS2-D | | 1.81 (46.0) | 9/16 |

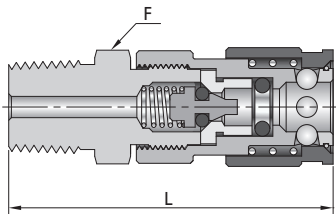
Bodies

Tube Fitting



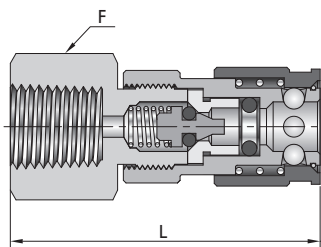
| Fitting Size in. | Basic Ordering Number | Dimensions | |
|------------------|-----------------------|-------------|-------|
| | | L in. (mm) | F in. |
| 1/16 | QM-FL1-B | 1.50 (38.1) | 7/16 |
| 1/8 | QM-FL2-B | 1.70 (43.2) | |

Male NPT



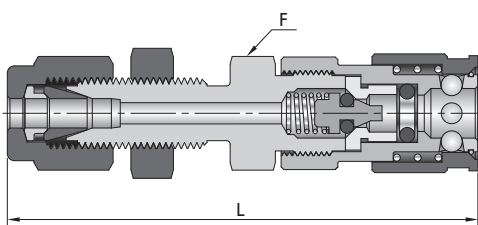
| NPT Size in. | Basic Ordering Number | Dimensions | |
|--------------|-----------------------|-------------|-------|
| | | L in. (mm) | F in. |
| 1/16 | QM-NS1-B | 1.42 (36.1) | 7/16 |
| 1/8 | QM-NS2-B | 1.44 (36.6) | |

Female NPT



| NPT Size in. | Basic Ordering Number | Dimensions | |
|--------------|-----------------------|-------------|-------|
| | | L 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 |

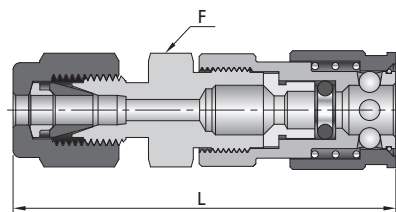
Bulkhead Tube Fitting



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

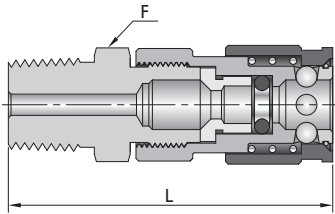
Full-flow Bodies

Tube Fitting



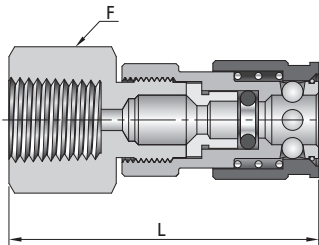
| Fitting Size in. | Basic Ordering Number | Flow Coefficient (Cv) | Dimensions | |
|------------------|-----------------------|-----------------------|-------------|-------|
| | | | L in. (mm) | F in. |
| 1/16 | QM-FL1-F | 0.06 | 1.50 (38.1) | 7/16 |
| 1/8 | QM-FL2-F | | 1.70 (43.2) | |

Male NPT



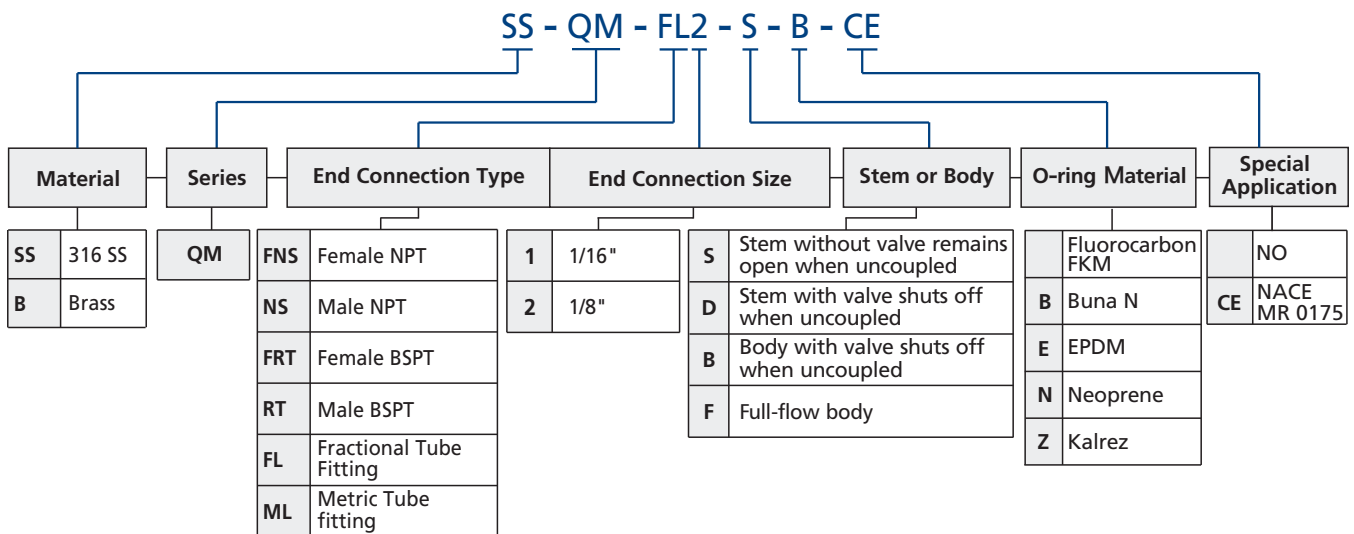
| Fitting Size in. | Basic Ordering Number | Flow Coefficient (Cv) | Dimensions | |
|------------------|-----------------------|-----------------------|-------------|-------|
| | | | L in. (mm) | F in. |
| 1/16 | QM-NS1-F | 0.06 | 1.42 (36.1) | 7/16 |
| 1/8 | QM-NS2-F | | 1.44 (36.6) | |

Female NPT



| NPT Size in. | Basic Ordering Number | Flow Coefficient (Cv) | Dimensions | |
|--------------|-----------------------|-----------------------|-------------|-------|
| | | | 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 |

Ordering Number Description



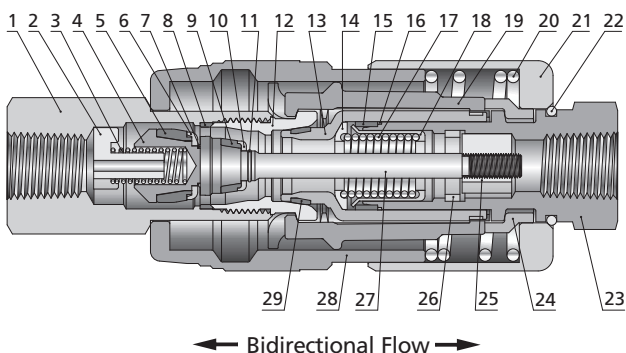
- Note: 1. "Ordering Number Description" is a reference to understand the combination rules of FITOK product part number. Not all combinations are available.
 2. Dimensions are for reference only and are subject to change.

QTM Series

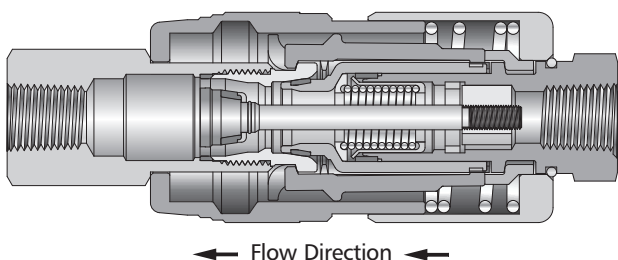
Features

- Working pressure up to: 4500 psig (310 bar)
- Special design to reduce air inclusion and spillage
- PTFE sealing to enable applications for diverse media types
- Push-to-connect design to enable quick and easy operation
- Locking mechanism with large contact area to ensure reliable stem retention

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) | 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 restricted by end connections.

Standard Materials of Construction

| Item | Component | Material | |
|------|--------------------------------|--------------------------|-----------------------------|
| 1 | Stem | 316 SS/A479 | Alloy 400/B164 |
| 2 | Spring seat | 316 SS/A479 | Alloy 400/B164 |
| 3 | Spring | 316 SS/313 | Alloy X-750/AMS 5699 |
| 4 | DESO valve | 316 SS/A479 | Alloy 400/B164 |
| 5 | DESO seal ring | PTFE/D1710 | PTFE/D1710 |
| 6 | DESO stem fin | 316 SS/A479 | Alloy 400/B164 |
| 7 | Roundwire snap ring for shaft | 316 SS/A313 | Alloy X-750/AMS 5699 |
| 8 | Adapter seal gasket | PTFE/D1710 | PTFE/D1710 |
| 9 | Body valve seal ring | PTFE/D1710 | PTFE/D1710 |
| 10 | Body fin | 316 SS/A479 | Alloy 400/B164 |
| 11 | Roundwire snap ring for shaft | 316 SS/A313 | Alloy X-750/AMS 5699 |
| 12 | Stem adapter | 316 SS/A479 | Alloy 400/B164 |
| 13 | Body sliding sleeve | 316 SS/A479 | Alloy 400/B164 |
| 14 | Spring pad | 316 SS/A479 | Alloy 400/B164 |
| 15 | Body packing ring | PTFE/D1710 | PTFE/D1710 |
| 16 | Packing backup ring | PTFE/D1710 | PTFE/D1710 |
| 17 | Spring | Elgiloy Alloy | Elgiloy Alloy |
| 18 | Body insert | 316 SS/A479 | Alloy 400/B164 |
| 19 | Sliding hooks with spring ring | 316 SS/A479 | Alloy 400/B164 |
| 20 | Spring | 316 SS/A313 | Alloy X-750/AMS 5699 |
| 21 | Body valve cap 2 | 316 SS/A479 | Alloy 400/B164 |
| 22 | Roundwire snap rings for shaft | 316 SS/A313 | Alloy X-750/AMS 5699 |
| 23 | Body | Xylan-coated 316 SS/A479 | Xylan-coated alloy 400/B164 |
| 24 | Locking block | 316 SS/A479 | Alloy 400/B164 |
| 25 | Threaded connecting ring | 316 SS/A479 | Alloy 400/B164 |
| 26 | Retaining ring | 316 SS/A313 | Alloy X-750/AMS 5699 |
| 27 | Body bolt | 316 SS/A479 | Alloy 400/B164 |
| 28 | Body valve cap 1 | 316 SS/A479 | Alloy 400/B164 |
| 29 | Body valve seal ring | PTFE/D1710 | PTFE/D1710 |
| 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 |

Insertion Depth

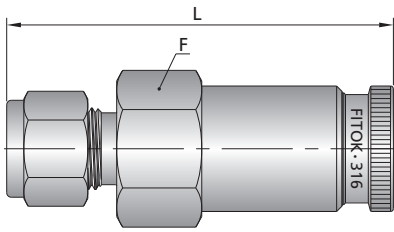
| Series | Depth in. (mm) |
|--------|----------------|
| QTM2 | 1.26 (32.1) |
| QTM4 | 0.95 (24.0) |
| QTM8 | 1.15 (29.1) |

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

Dimensions

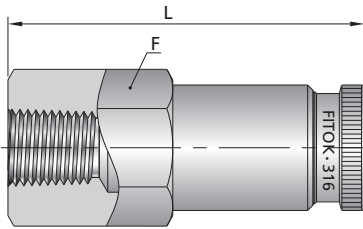
DESO Stems

Tube Fitting



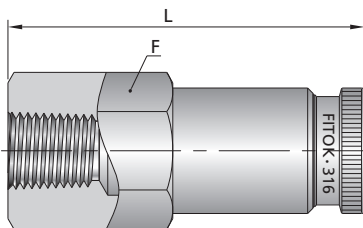
| Fitting Size in. | Basic Ordering Number | Flow Coefficient (Cv) | Dimensions | |
|------------------|-----------------------|-----------------------|-------------|-----------|
| | | | L in. (mm) | F in. |
| 1/4 | -QTM2-FL4-D | 0.6 | 2.02 (51.3) | 5/8 |
| 1/4 | -QTM4-FL4-D | 0.8 | 2.61 (66.3) | 15/16 |
| 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 |

Female NPT



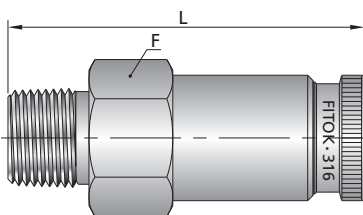
| NPT Size in. | Basic Ordering Number | Flow Coefficient (Cv) | Dimensions | |
|--------------|-----------------------|-----------------------|-------------|--------|
| | | | L in. (mm) | F in. |
| 1/8 | -QTM2-FNS2-D | 0.7 | 1.73 (43.9) | 5/8 |
| 1/4 | -QTM2-FNS4-D | 0.7 | 2.04 (51.8) | 3/4 |
| 1/4 | -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 |

Female BSPT



| BSPT Size in. | Basic Ordering Number | Flow Coefficient (Cv) | Dimensions | |
|---------------|-----------------------|-----------------------|-------------|--------|
| | | | L in. (mm) | F 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 |

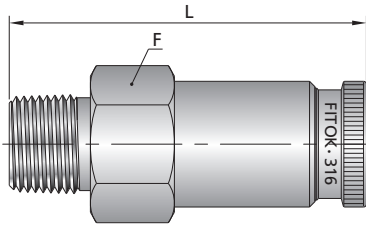
Male NPT



| NPT Size in. | Basic Ordering Number | Flow Coefficient (Cv) | Dimensions | |
|--------------|-----------------------|-----------------------|-------------|--------|
| | | | L in. (mm) | F 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 |

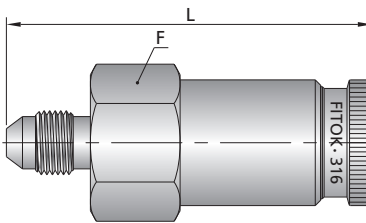
D-50 Quick-connects

Male BSPT



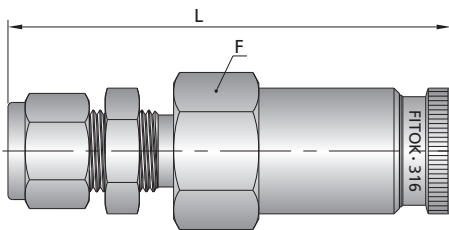
| BSPT Size in. | Basic Ordering Number | Flow Coefficient (Cv) | Dimensions | |
|---------------|-----------------------|-----------------------|-------------|--------|
| | | | L | F |
| | | | in. (mm) | in. |
| 1/4 | -QTM2-RT4-D | 0.2 | 1.91 (48.5) | 5/8 |
| 1/4 | -QTM4-RT4-D | 1.4 | 2.46 (62.5) | 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



| Fitting Size in. | Basic Ordering Number | Flow Coefficient (Cv) | Dimensions | |
|------------------|-----------------------|-----------------------|-------------|--------|
| | | | L | F |
| | | | in. (mm) | 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 |

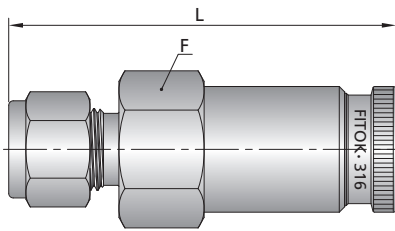
Bulkhead Tube Fitting



| Fitting Size in. | Basic Ordering Number | Flow Coefficient (Cv) | Dimensions | | Min. Panel Orifice in. (mm) | Max. Panel Thickness in. (mm) |
|------------------|-----------------------|-----------------------|-------------|--------|-----------------------------|-------------------------------|
| | | | L | F | | |
| | | | in. (mm) | in. | | |
| 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) |

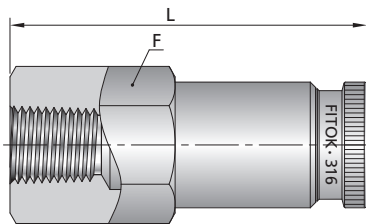
SESO Stem

Tube Fitting



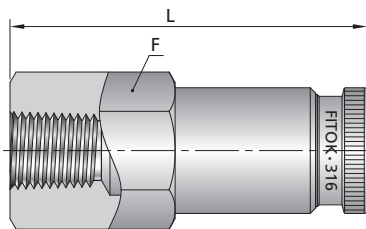
| Fitting Size in. | Basic Ordering Number | Flow Coefficient (Cv) | Dimensions | |
|------------------|-----------------------|-----------------------|-------------|-----------|
| | | | L in. (mm) | F in. |
| 1/4 | -QTM2-FL4-S | 0.7 | 2.02 (51.3) | 5/8 |
| 1/4 | -QTM4-FL4-S | 0.9 | 2.61 (66.3) | 15/16 |
| 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 |
| 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



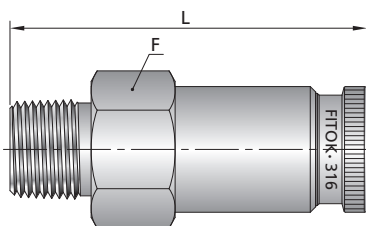
| NPT Size in. | Basic Ordering Number | Flow Coefficient (Cv) | Dimensions | |
|--------------|-----------------------|-----------------------|-------------|--------|
| | | | L in. (mm) | F in. |
| 1/8 | -QTM2-FNS2-S | 0.7 | 1.73 (43.9) | 5/8 |
| 1/4 | -QTM2-FNS4-S | 0.7 | 2.04 (51.8) | 3/4 |
| 1/4 | -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



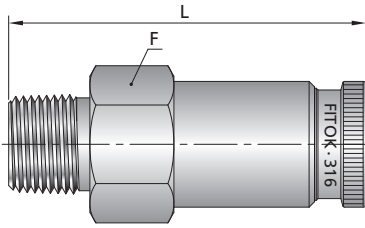
| BSPT Size in. | Basic Ordering Number | Flow Coefficient (Cv) | Dimensions | |
|---------------|-----------------------|-----------------------|-------------|--------|
| | | | L in. (mm) | F in. |
| 1/8 | -QTM2-FRT2-S | 0.7 | 1.73 (43.9) | 5/8 |
| 1/4 | -QTM2-FRT4-S | 0.7 | 2.04 (51.8) | 3/4 |
| 1/4 | -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



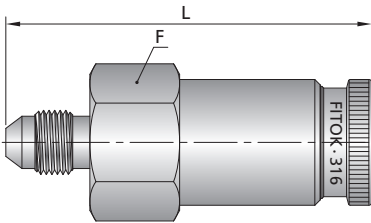
| NPT Size in. | Basic Ordering Number | Flow Coefficient (Cv) | Dimensions | |
|--------------|-----------------------|-----------------------|-------------|--------|
| | | | L in. (mm) | F in. |
| 1/4 | -QTM2-NS4-S | 0.2 | 1.91 (48.5) | 5/8 |
| 1/4 | -QTM4-NS4-S | 1.4 | 2.46 (62.5) | 15/16 |
| 3/8 | -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



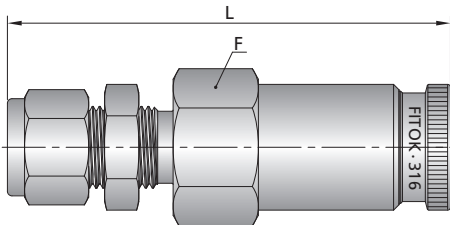
| BSPT Size in. | Basic Ordering Number | Flow Coefficient (Cv) | Dimensions | |
|---------------|-----------------------|-----------------------|-------------|--------|
| | | | L | F |
| | | | in. (mm) | in. |
| 1/4 | -QTM2-RT4-S | 0.2 | 1.91 (48.5) | 5/8 |
| 1/4 | -QTM4-RT4-S | 1.4 | 2.46 (62.5) | 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



| Fitting Size in. | Basic Ordering Number | Flow Coefficient (Cv) | Dimensions | |
|------------------|-----------------------|-----------------------|-------------|--------|
| | | | L | F |
| | | | 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 |

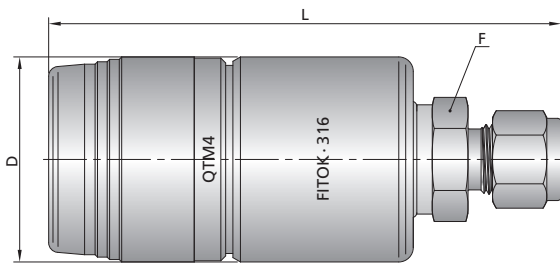
Bulkhead Tube Fitting



| Fitting Size in. | Basic Ordering Number | Flow Coefficient (Cv) | Dimensions | | Min. Panel Orifice in. (mm) | Max. Panel Thickness in. (mm) |
|------------------|-----------------------|-----------------------|-------------|--------|-----------------------------|-------------------------------|
| | | | L | F | | |
| | | | 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) |

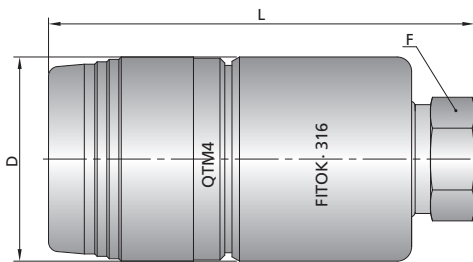
Bodies

Tube Fitting



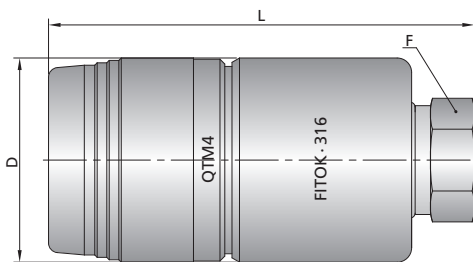
| Fitting Size in. | Basic Ordering Number | Dimensions | | |
|---------------------|-----------------------|-------------|-------------|-------|
| | | L | D | F |
| | | in. (mm) | in. (mm) | in. |
| 1/4 | -QTM2-FL4-B | 3.16 (80.3) | 1.12 (28.4) | 9/16 |
| 1/4 | -QTM4-FL4-B | 4.17 (106) | 1.68 (42.7) | 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) | 28.4 (1.12) | 15 |
| 6 | -QTM4-ML6-B | 106 (4.17) | 42.7 (1.68) | 24 |
| 8 | -QTM2-ML8-B | 80.3 (3.16) | 28.4 (1.12) | 15 |
| 10 | -QTM4-ML10-B | 106 (4.17) | 42.7 (1.68) | 24 |
| 12 | -QTM8-ML12-B | 109 (4.30) | 50.8 (2.00) | 30 |

Female NPT



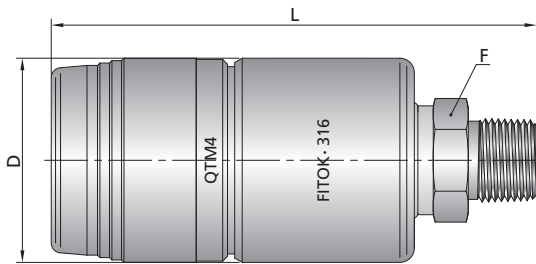
| NPT Size in. | Basic Ordering Number | Dimensions | | |
|-----------------|-----------------------|-------------|-------------|--------|
| | | L | D | F |
| | | in. (mm) | in. (mm) | in. |
| 1/8 | -QTM2-FNS2-B | 2.60 (66.0) | 1.12 (28.4) | 9/16 |
| 1/4 | -QTM2-FNS4-B | 2.99 (75.9) | 1.12 (28.4) | 3/4 |
| 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



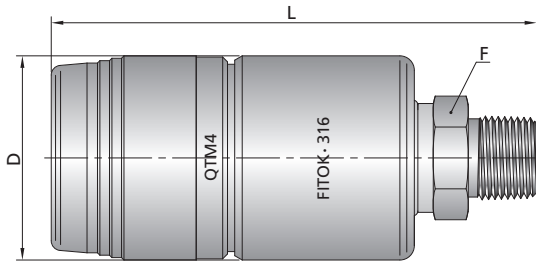
| BSPT Size in. | Basic Ordering Number | Dimensions | | |
|------------------|-----------------------|-------------|-------------|--------|
| | | L | D | F |
| | | in. (mm) | in. (mm) | in. |
| 1/8 | -QTM2-FRT2-B | 2.60 (66.0) | 1.12 (28.4) | 9/16 |
| 1/4 | -QTM2-FRT4-B | 2.99 (75.9) | 1.12 (28.4) | 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



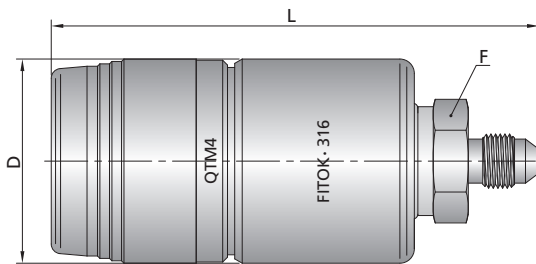
| NPT Size in. | Basic Ordering Number | Dimensions | | |
|--------------------|-----------------------------|--------------|-------------|-------|
| | | L | D | F |
| | | in. (mm) | in. (mm) | in. |
| 1/4 | -QTM2-NS4-B | 3.02 (76.7) | 1.12 (28.4) | 9/16 |
| 1/4 | -QTM4-NS4-B | 3.89 (98.8) | 1.68 (42.7) | 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



| BSPT Size in. | Basic Ordering Number | Dimensions | | |
|---------------------|-----------------------------|--------------|-------------|-------|
| | | L | D | F |
| | | 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 |

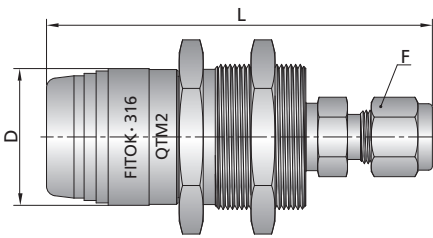
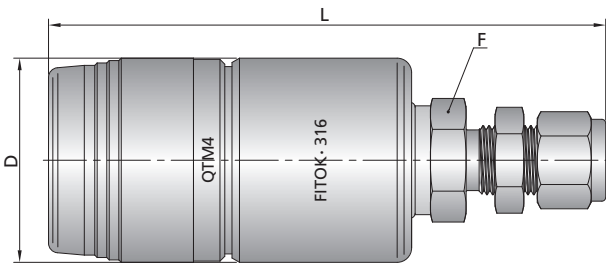
Male JIC (AN) 37° Flare



| Fitting Size in. | Basic Ordering Number | Dimensions | | |
|------------------------|-----------------------------|-------------|-------------|-------|
| | | L | D | F |
| | | in. (mm) | in. (mm) | in. |
| 1/4 | -QTM4-AN4-B | 3.89 (98.8) | 1.68 (42.7) | 7/8 |
| 1/2 | -QTM8-AN8-B | 4.20 (107) | 2.00 (50.8) | 1 1/8 |

Bulkhead Bodies

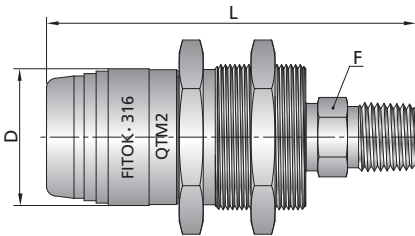
Bulkhead Tube Fitting



QTM2 Integral Bulkhead

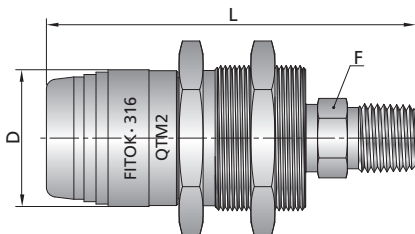
| Fitting Size | Basic Ordering Number | Dimensions | | | Min. Panel Orifice | Max. Panel Thickness |
|--------------|-----------------------|-------------|-------------|-------|--------------------|----------------------|
| | | L | D | F | | |
| 1/4 in. | -QTM2-BFL4-B | 3.16 (80.3) | 1.12 (28.4) | 9/16 | 1.20 (30.6) | 0.65 (16.5) |
| 1/4 in. | -QTM4-BFL4-B | 4.42 (112) | 1.68 (42.7) | 7/8 | 0.46 (11.7) | 0.15 (3.8) |
| 3/8 in. | -QTM4-BFL6-B | 4.51 (115) | 1.68 (42.7) | 7/8 | 0.58 (14.7) | 0.15 (3.8) |
| 1/2 in. | -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



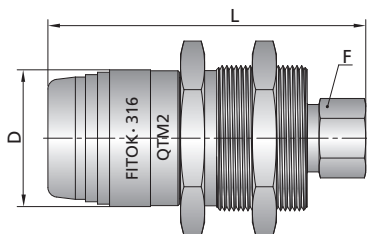
| NPT Size | Basic Ordering Number | Dimensions | | | Min. Panel Orifice | Max. Panel Thickness |
|----------|-----------------------|-------------|-------------|------|--------------------|----------------------|
| | | L | D | F | | |
| 1/4 in. | -QTM2-BNS4-B | 3.02 (76.7) | 1.12 (28.4) | 9/16 | 1.20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

Bulkhead Male BSPT



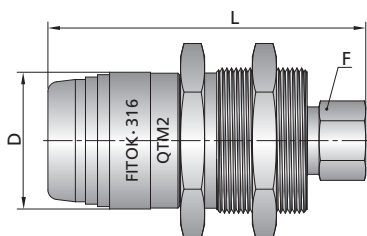
| NPT Size | Basic Ordering Number | Dimensions | | | Min. Panel Orifice | Max. Panel Thickness |
|----------|-----------------------|-------------|-------------|------|--------------------|----------------------|
| | | L | D | F | | |
| 1/4 in. | -QTM2-BRT4-B | 3.02 (76.7) | 1.12 (28.4) | 9/16 | 1.20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

Bulkhead Female NPT



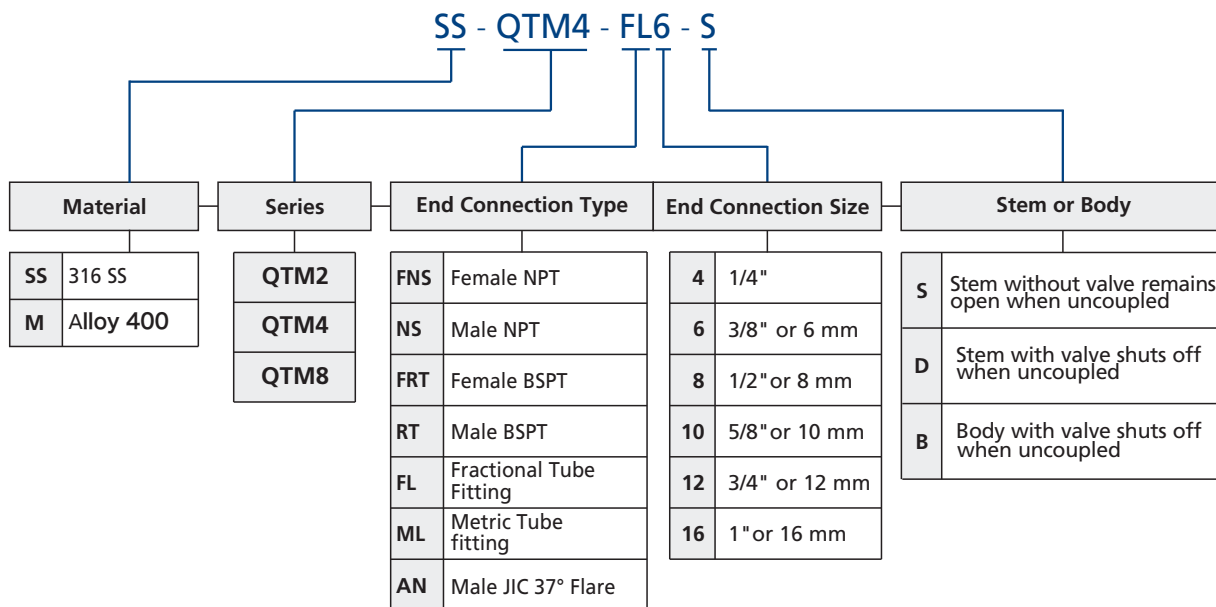
| NPT Size in. | Basic Ordering Number | Dimensions | | | Min. Panel Orifice in. (mm) | Max. Panel Thickness in. (mm) |
|--------------|-----------------------|-------------|-------------|------|-----------------------------|-------------------------------|
| | | L | D | F | | |
| | | in. (mm) | in. (mm) | in. | | |
| 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



| BSPT Size in. | Basic Ordering Number | Dimensions | | | Min. Panel Orifice in. (mm) | Max. Panel Thickness in. (mm) |
|---------------|-----------------------|-------------|-------------|------|-----------------------------|-------------------------------|
| | | L | D | F | | |
| | | in. (mm) | in. (mm) | in. | | |
| 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) |

Ordering Number Description



Note: 1. "Ordering Number Description" is a reference to understand the combination rules of FITOK product part number. Not all combinations are available.
 2. Dimensions are for reference only and are subject to change.