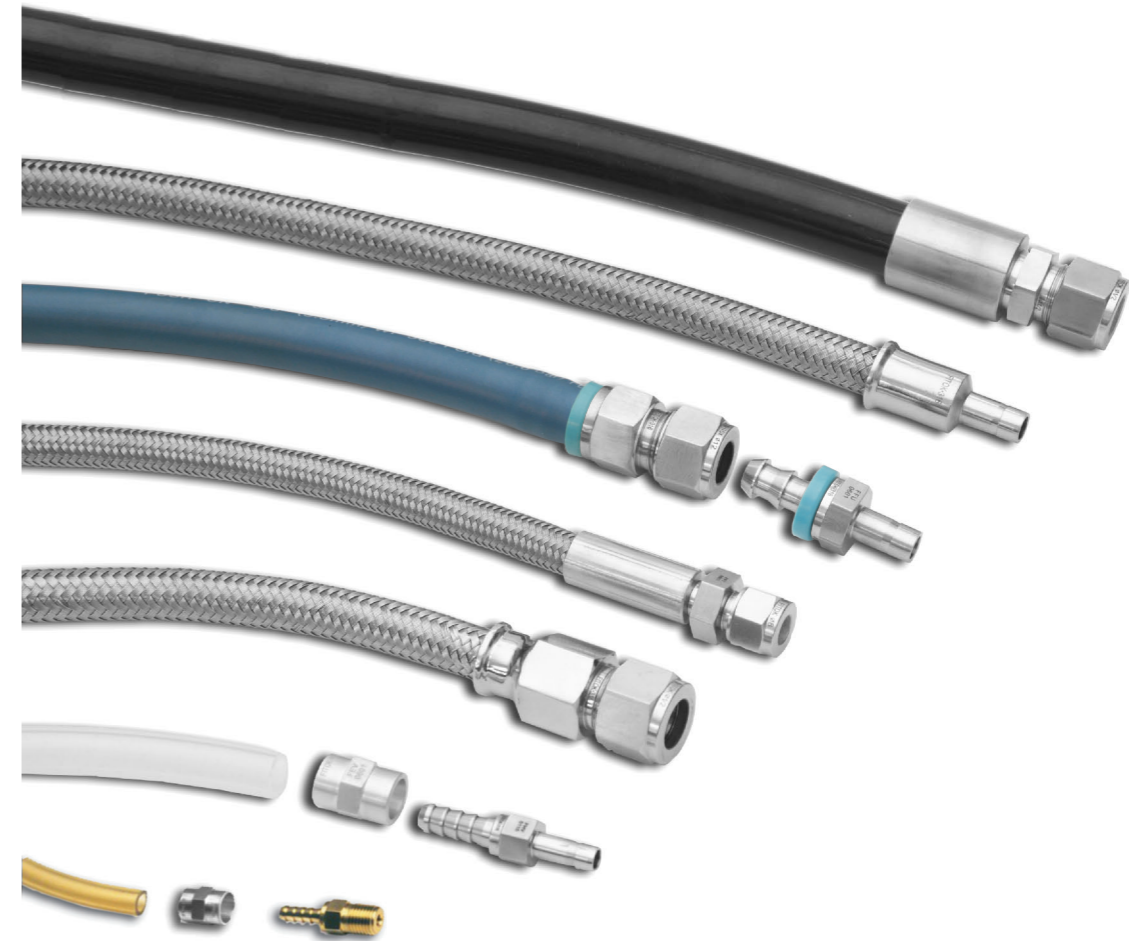


# Hoses and Connectors

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



## FITOK Group

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

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

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

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

info@fitokgroup.com  
www.fitokgroup.com

FK-IC-GT-02-EN-151217

**FITOK**  
Valves and Fittings

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TH Series



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## Hose Connectors and Sleeves

HC Series



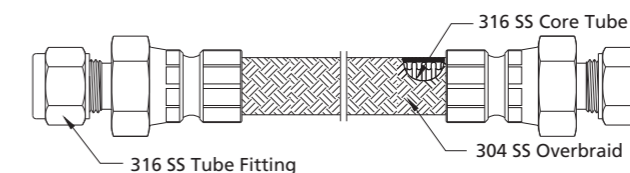
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# Metal Flexible Hoses

## MH, MM Series

### Features

- ⦿ Core tube and fitting material: 316 stainless steel
- ⦿ Overbraid material: 304 stainless steel
- ⦿ 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<br>(-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)      | 0.75 (19.0)      | 4.33 (110) | -325 to 800<br>(-200 to 426) | 1600 (110)                      | 6400 (440)                    | MM4         |
| 3/8 (9.7)         | 0.38 (9.5)      | 0.87 (22.1)      | 5.91 (150) |                              | 1470 (101)                      | 6000 (413)                    | MM6         |
| 1/2 (12.7)        | 0.50 (12.7)     | 1.04 (26.4)      | 6.50 (165) |                              | 1110 (76.4)                     | 4500 (310)                    | MM8         |
| 3/4 (19.0)        | 0.75 (19.0)     | 1.61 (40.9)      | 8.86 (225) |                              | 860 (59.2)                      | 3500 (241)                    | MM12        |
| 1 (25.4)          | 1.00 (25.4)     | 1.89 (48.0)      | 10.2 (259) |                              | 680 (46.8)                      | 2680 (184)                    | MM16        |
| 1 1/4 (31.8)      | 1.25 (31.8)     | 2.16 (54.9)      | 11.8 (300) |                              | 680 (46.8)                      | 2600 (179)                    | MM20        |
| 1 1/2 (38.1)      | 1.50 (38.1)     | 2.33 (59.2)      | 13.4 (340) |                              | 520 (35.8)                      | 2200 (151)                    | MM24        |
| 2 (50.8)          | 2.00 (50.8)     | 3.10 (78.7)      | 15.4 (391) |                              | 450 (31.0)                      | 1800 (124)                    | MM32        |

## Testing

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

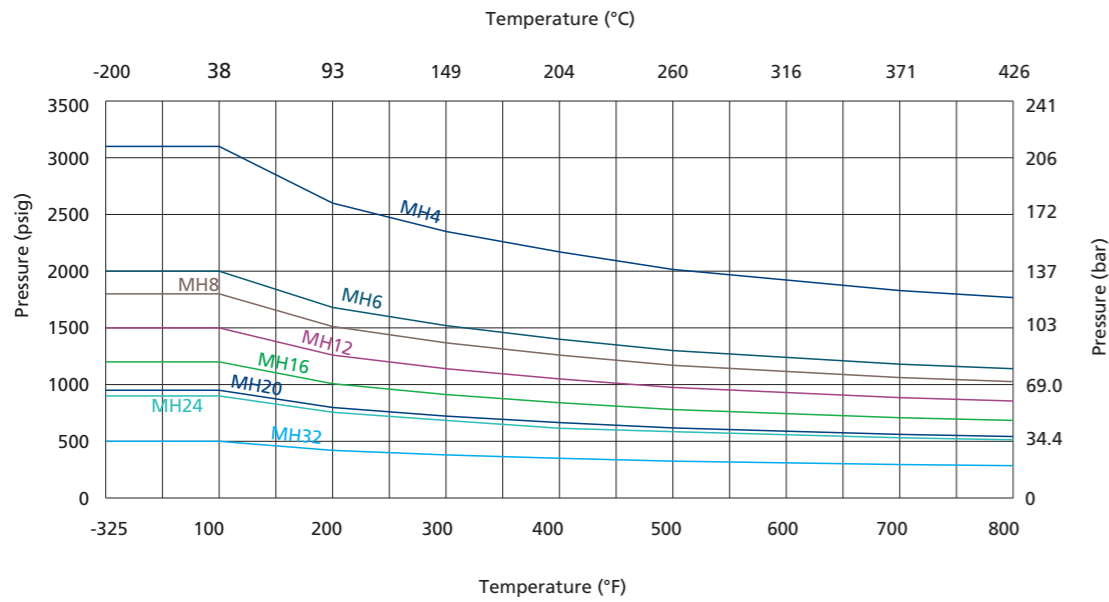
## Cleaning and Packaging

FITOK metal flexible hose components are cleaned in accordance with FITOK standard cleaning (FC-01) for general industrial procedures.

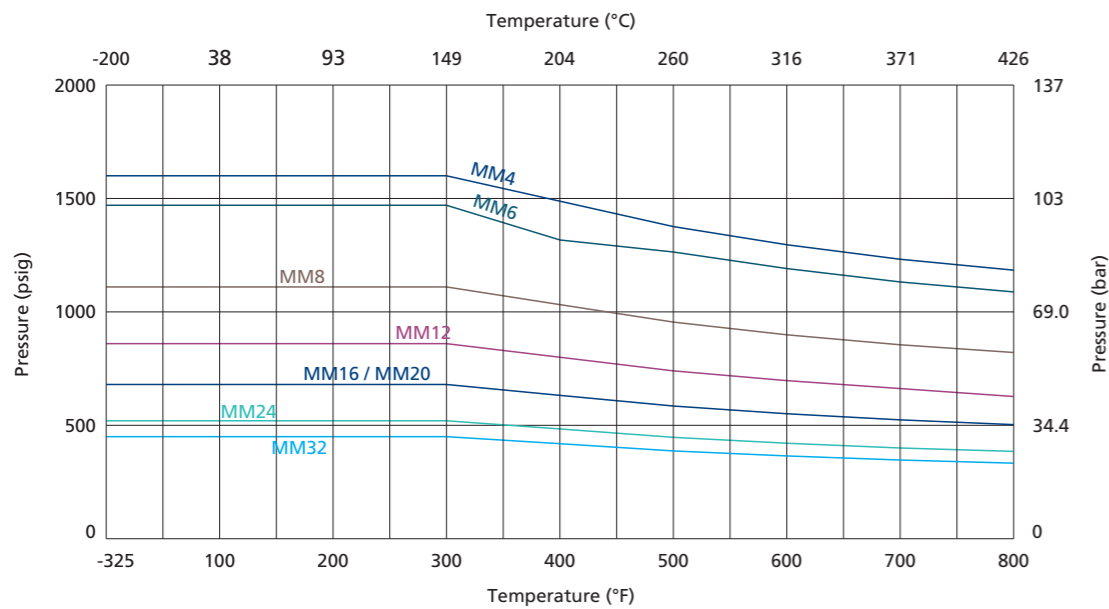
Shorter hoses are packed in cartons with suitable protective material, longer hoses are coiled, bagged and boxed or crated.

## Pressure vs. Temperature

### MH series



### MM series



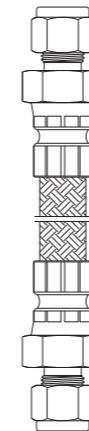
The working pressure of the hose selected must not exceed the maximum pressure, including any pressure spikes of the system. To determine actual working pressure ratings in accordance with pulsation, shock factors multiply by 0.5.

## Standard Assemblies



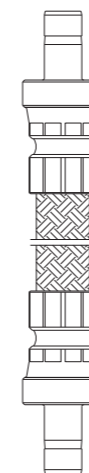
Tube Fitting to Male NPT End

| Nominal Hose Size | Tube Fitting Size | NPT Size | Hose Series | Overall Length | Ordering Number       | Minimum Inside Diameter | Maximum Outside Dimension |
|-------------------|-------------------|----------|-------------|----------------|-----------------------|-------------------------|---------------------------|
| in.               | in.               | in.      |             | 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.               | in.               |             | 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)               |



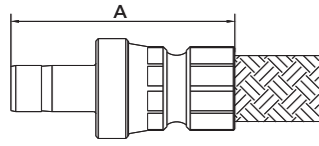
Tube Adapter End

| Nominal Hose Size | Tube Adapter Size | Hose Series | Overall Length | Ordering Number | Minimum Inside Diameter | Maximum Outside Dimension |
|-------------------|-------------------|-------------|----------------|-----------------|-------------------------|---------------------------|
| in.               | in.               |             | 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 the authorized representative or FITOK Group.
2. Types listed are standard. Other types are available upon request, refer to the ordering information.

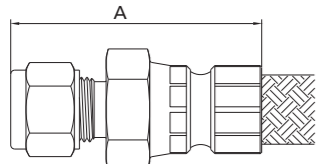
## End Connections

### Tube Adapters

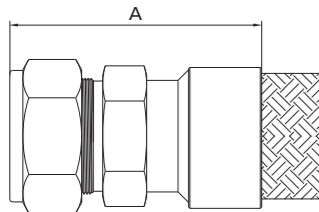


| Tube Adapter Size | Nominal Hose Size | End Connection Designator | Dimensions  |                         |                          |
|-------------------|-------------------|---------------------------|-------------|-------------------------|--------------------------|
|                   |                   |                           | A           | Minimum Inside Diameter | Maximum Outside Diameter |
| 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



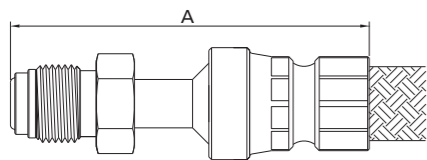
Automatic Weld Style-1 in. and Under



Manual Weld Style-Over 1 in.

| Tube Fitting Size | Nominal Hose Size | End Connection Designator | Dimensions  |                         |                          |
|-------------------|-------------------|---------------------------|-------------|-------------------------|--------------------------|
|                   |                   |                           | A           | Minimum Inside Diameter | Maximum Outside Diameter |
| 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)              |

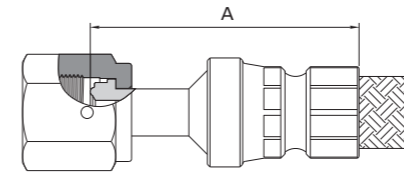
### Male FR Metal Gasket Face Seal Fittings Swivel



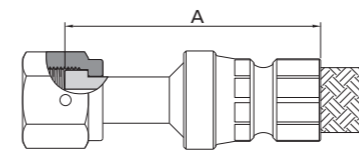
| FR Size | Nominal Hose Size | End Connection Designator | Dimensions  |                         |                          |
|---------|-------------------|---------------------------|-------------|-------------------------|--------------------------|
|         |                   |                           | A           | Minimum Inside Diameter | Maximum Outside Diameter |
| 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

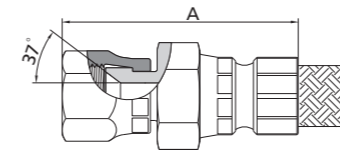
### Female FR Metal Gasket Face Seal Fittings Swivel



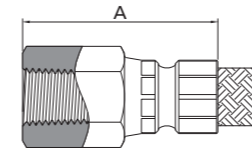
### Female FO O-Ring Face Seal Fittings Swivel



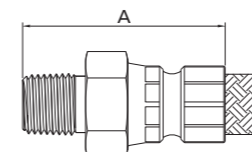
### SAE 37° (JIC) Female Swivel



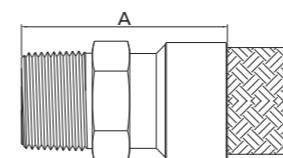
### Female Pipe Threads, NPT



### 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 Diameter |
| 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 Diameter |
| 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 Diameter |
| 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 Diameter |
| 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 Diameter |
| 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)              |

Part Number Description

**SS - MH4 - FL6 - NS6 - F36**

| End Connection Material |         | Hose |                      | Nominal Hose Size |        | End 1 Connection Type |                                      | End 1 Connection Size |                    | End 2 Connection Type and Size   |     | Overall Length |  |
|-------------------------|---------|------|----------------------|-------------------|--------|-----------------------|--------------------------------------|-----------------------|--------------------|--|-----|----------------|--|
| SS                      | 316 SS  | MH   | High pressure hose   | 4                 | 1/4"   | ML                    | Metric Tube Fitting                  | 3                     | 3/16 (in.)         | Same as End 1<br>Specify in the same way as the end 1 connection type and size | FXX | XX in.         |  |
| 904L                    | 904L SS | MM   | Medium pressure hose | 6                 | 3/8"   | FL                    | Fractional Tube Fitting              | 4                     | 1/4 (in.)          |  |     |                |  |
|                         |         |      |                      | 8                 | 1/2"   | MT                    | Metric Tube Adapter                  | 6                     | 3/8 (in.) or 6 mm  |  |     |                |  |
|                         |         |      |                      | 12                | 3/4"   | FT                    | Fractional Tube Adapter              | 8                     | 1/2 (in.) or 8 mm  |  |     |                |  |
|                         |         |      |                      | 16                | 1"     | FNS                   | Female NPT                           | 10                    | 5/8 (in.) or 10 mm |  |     |                |  |
|                         |         |      |                      | 20                | 1 1/4" | NS                    | Male NPT                             | 12                    | 3/4 (in.) or 12 mm |  |     |                |  |
|                         |         |      |                      | 24                | 1 1/2" | FRT                   | Female BSPT                          | 14                    | M14 x 1.5          |  |     |                |  |
|                         |         |      |                      | 32                | 2"     | RT                    | Male BSPT                            | 16                    | 1 (in.) or 16 mm   |  |     |                |  |
|                         |         |      |                      |                   |        | FMS                   | Female Metric Thread (for RG gasket) | 18                    | M18 x 1.5          |  |     |                |  |
|                         |         |      |                      |                   |        | MS                    | Male Metric Thread (for RG gasket)   | 20                    | M20 x 1.5          |  |     |                |  |
|                         |         |      |                      |                   |        | SAN                   | Female JIC 37° Flare Swivel          |                       |                    |  |     |                |  |
|                         |         |      |                      |                   |        | AN                    | Male JIC 37° Flare                   |                       |                    |  |     |                |  |
|                         |         |      |                      |                   |        | SFFR                  | Female FR Fitting Swivel             |                       |                    |  |     |                |  |
|                         |         |      |                      |                   |        | SFR                   | Male FR Fitting Swivel               |                       |                    |  |     |                |  |

Example: SS-MH4-FT6-M710

SS: End connection material is 316 stainless steel.  
 MH4: MH series, hose size is 1/4".  
 FT6: End 1 connection type and size is 3/8" tube adapter.  
 End 2 connection type and size is 3/8" tube adapter.  
 M710: Overall length is 710 mm.

Note: Most configurations are available but not everyone.

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

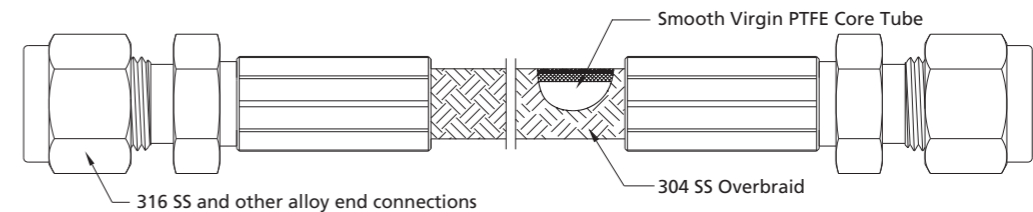
1. Metric Double Ferrules - Fractional Double Ferrules - Metric Tube Adapters - Fractional Tube Adapters - NPT Threads - BSPT Threads - BSPP Threads - SAE/MS Parallel Threads - 37 Flare - Others
2. Put the sizes from the biggest down to the smallest if they are of the same type.
3. Put the female before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

# PTFE-lined, Stainless Steel Braided Hoses

## PS Series

### Features

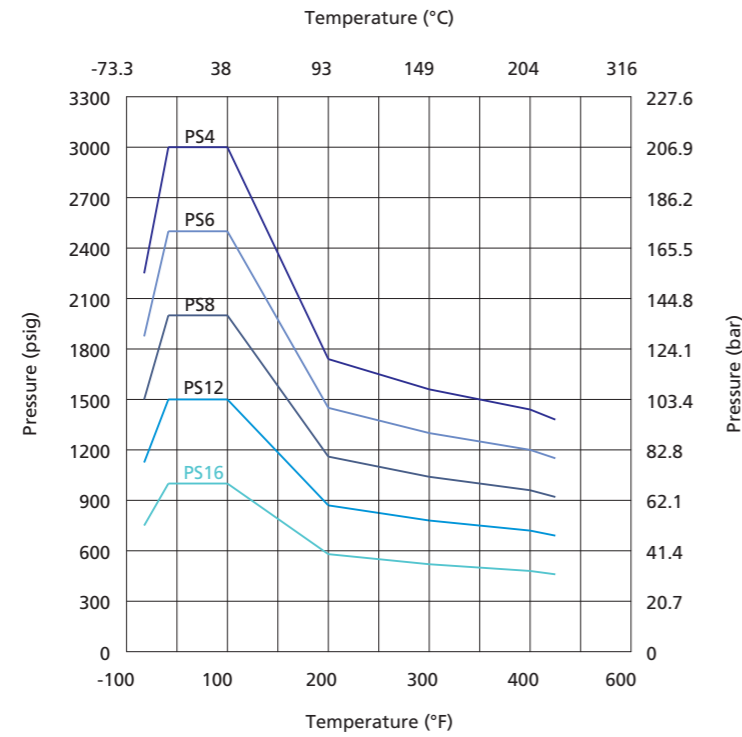
- Lightweight construction for easy handling and installation
- Core tube material: smooth virgin PTFE
- Overbraid material: 304 stainless steel
- Working pressure up to: 3000 psig (207 bar)
- Hose size: 1/4" to 1"
- Working temperature: -65°F to 400°F (-53°C to 204°C)
- Standard and custom-length available



### 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 450<br>(-53 to 230) | 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)                    |

## Pressure vs. Temperature



## Testing

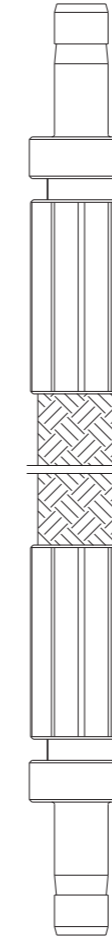
Every FITOK PTFE-lined hose assembly is factory tested with pure water at 1.5 times the maximum working pressure.

## Cleaning and Packaging

FITOK PTFE-lined hose components are cleaned in accordance with FITOK standard cleaning (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

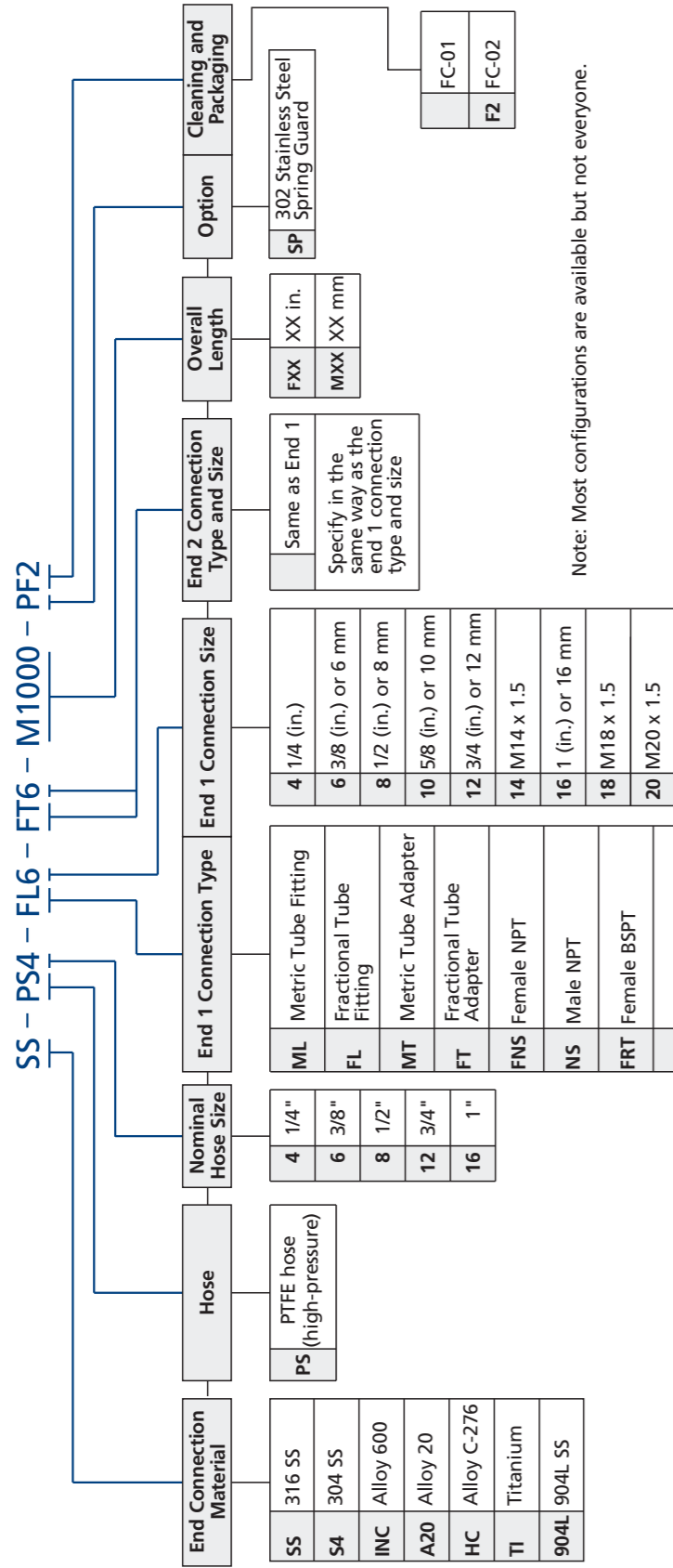


### Tube Adapters

| Nominal Hose Size | Tube Adapter Size | Overall Length | Ordering Number  | Minimum Inside Diameter | Maximum Outside Diameter |
|-------------------|-------------------|----------------|------------------|-------------------------|--------------------------|
| 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 the authorized representative or FITOK Group.
2. Sizes and types listed are standard. Other sizes and types are available on request, refer to the ordering information.

Part Number Description



Note: Most configurations are available but not everyone.

- Options and accessories do not change hose technical data. Hose operating parameters must be considered when selecting a cover.
  - Lucid PVC cover resists abrasion.
  - 302 stainless steel spring guard covers entire hose to protect against kinking and abrasion.
  - To order a hose assembly with special cleaning and packaging (FC-02), following ASTM G93 level C, add -F2 as a suffix to the ordering number.  
Example: **SS-PS4-FT4-F24-F2**.
- 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/IMS 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.

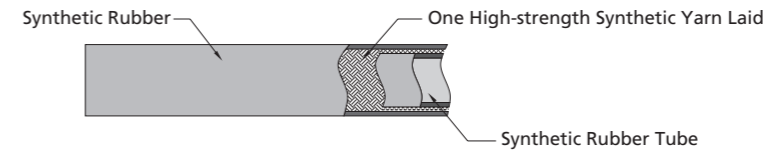
Example: **SS-PS4-SAN4-M500**  
**SS**: End connection material is 316 stainless steel.  
**PS4**: PS series, hose inside diameter is 3/16".  
**SAN4**: End 1 connection type and size is 1/4" fitting size, female JIC 37° flare swivel.  
 End 2 connection type and size is 1/4" fitting size, female JIC 37° flare swivel.  
**M500**: Overall length is 500 mm.

# Multipurpose Push-on Hoses

## MP Series

### Features

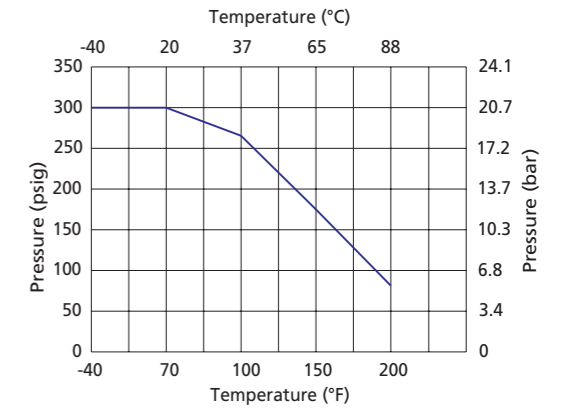
- Cover: weatherproof, abrasion withstanding and oil-resistant synthetic rubber
- Reinforcement: single-braid high-strength synthetic fiber woven for maximum strength and end connection retention
- Core tube: highly oil-resistant rubber
- Hose colors: blue, black, green, gray, red and yellow
- Working pressure up to: 300 psig (20.7 bar)
- Hose size: 1/4" to 3/4"
- Working temperature: -40°F to 190°F (-40°C to 88°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

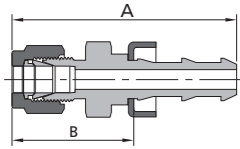
FITOK multipurpose push-on hose components are cleaned in accordance with FITOK standard cleaning (FC-01) for general industrial procedures. Shorter hoses are packed in cartons with suitable protective material, longer hoses are coiled, bagged and boxed or crated.

### Caution:

- Do not reuse hose.

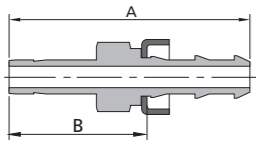
## Multipurpose Push-on Hose End Connections

### Tube Fittings



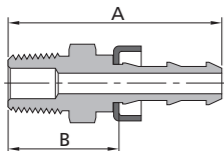
| Nominal Hose Size | Tube Fitting Size | Basic Ordering Number | Dimensions, in.(mm) |             |                         |                          |
|-------------------|-------------------|-----------------------|---------------------|-------------|-------------------------|--------------------------|
|                   |                   |                       | A                   | B           | Minimum Inside Diameter | Maximum Outside Diameter |
| 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



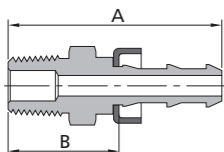
| Nominal Hose Size | Tube Adapter Size | Basic Ordering Number | Dimensions, in.(mm) |             |                         |                          |
|-------------------|-------------------|-----------------------|---------------------|-------------|-------------------------|--------------------------|
|                   |                   |                       | A                   | B           | Minimum Inside Diameter | Maximum Outside Diameter |
| 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



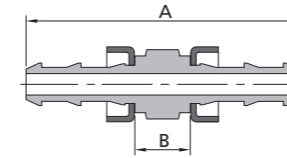
| Nominal Hose Size | NPT Size | Basic Ordering Number | Dimensions, in.(mm) |             |                         |                          |
|-------------------|----------|-----------------------|---------------------|-------------|-------------------------|--------------------------|
|                   |          |                       | A                   | B           | Minimum Inside Diameter | Maximum Outside Diameter |
| 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



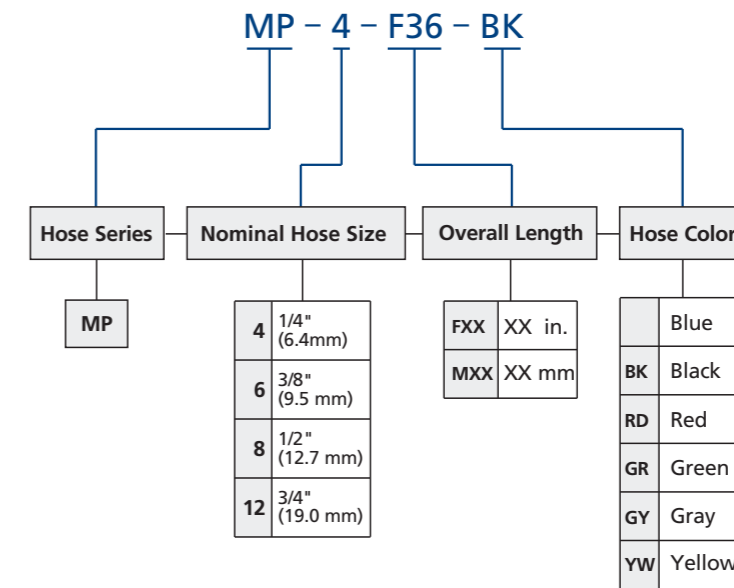
| Nominal Hose Size | BSPT Size | Basic Ordering Number | Dimensions, in.(mm) |             |                         |                          |
|-------------------|-----------|-----------------------|---------------------|-------------|-------------------------|--------------------------|
|                   |           |                       | A                   | B           | Minimum Inside Diameter | Maximum Outside Diameter |
| 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 Diameter |
| 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 Part aNumber Description



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

**MP:** Hose series

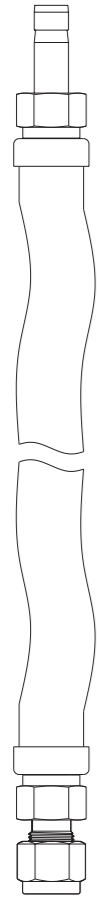
**8:** Hose size is 1/2".

**F60:** Overall length is 60".

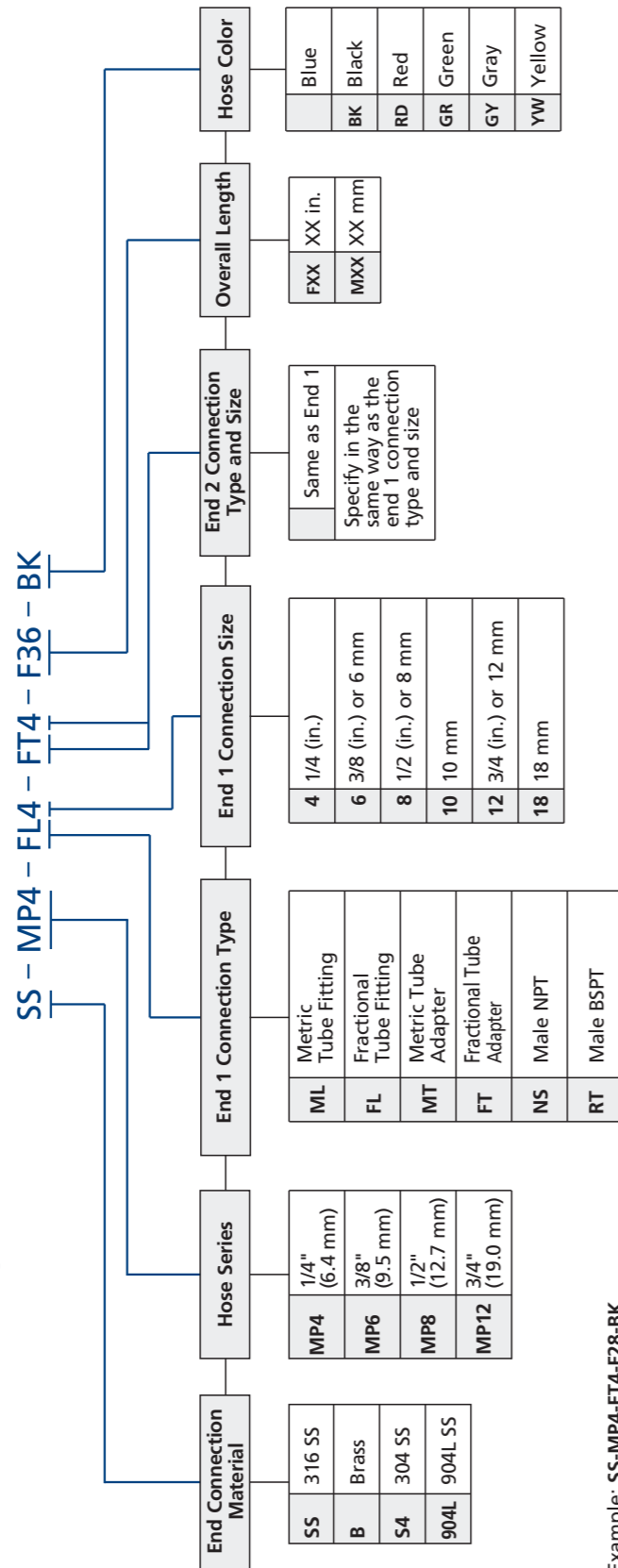
**BK:** Hose color is black.

Note: Most configurations are available but not everyone.





Part aNumber Description



Example: SS-MP4-FT4-F28-BK

SS: End connection material is 316 stainless steel.

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

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

F28: End 2 connection type and size is 1/4" tube adapter.

BK: Hose color is black.

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/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.

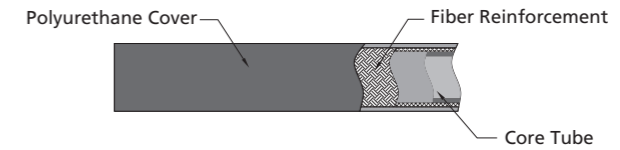
Note: Most configurations are available but not everyone.

# 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)

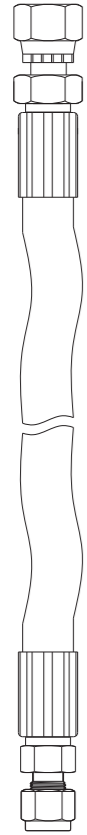
| Nominal Hose Size | Hose Series | Min. Inside Bend Radius | Inside Diameter | Temperature Range      | Working Pressure at 70°F (20°C) | Min. Burst Pressure at 70°F (20°C) | Specification  |
|-------------------|-------------|-------------------------|-----------------|------------------------|---------------------------------|------------------------------------|----------------|
| 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

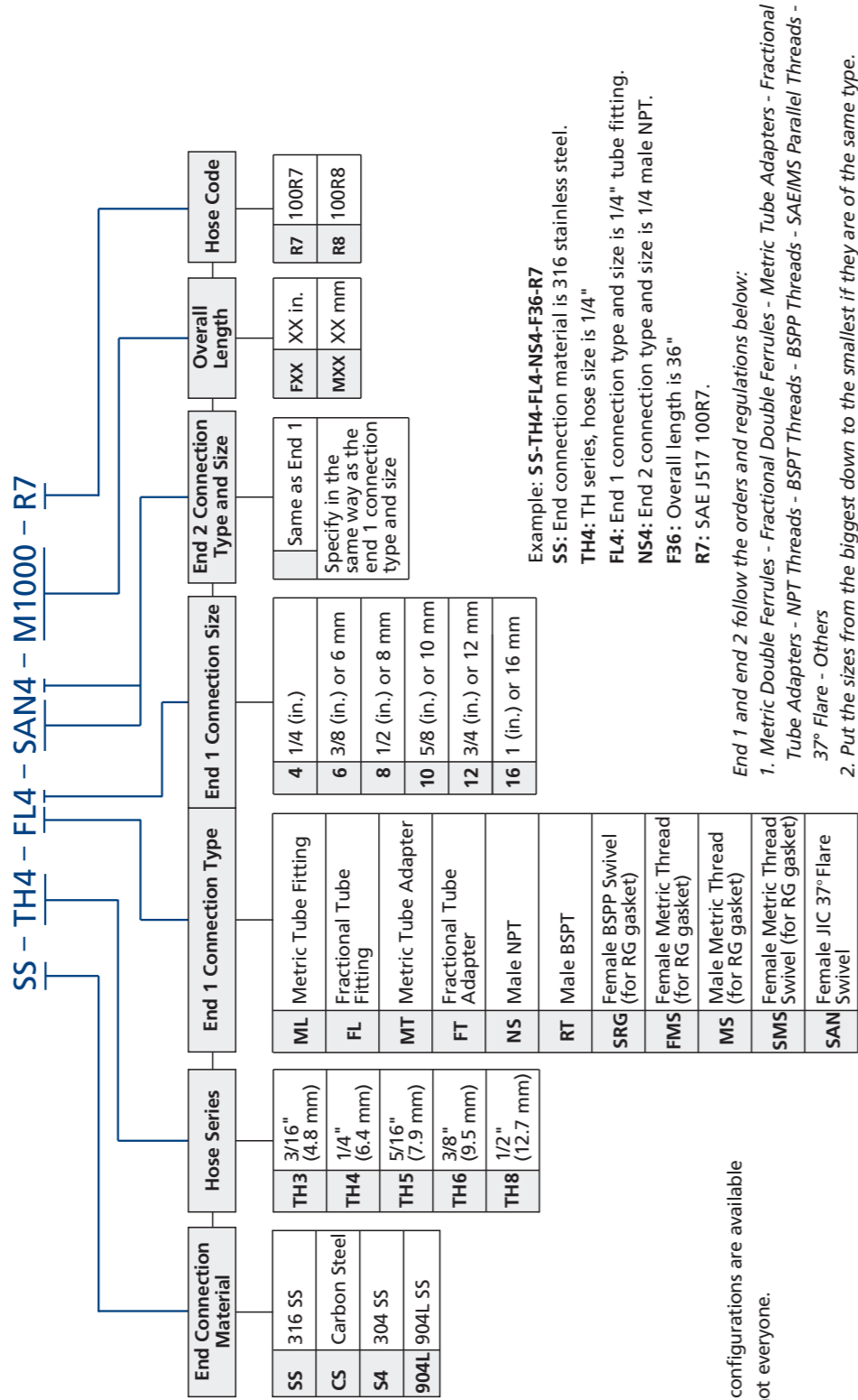
Every FITOK thermoplastic hose assembly is factory tested with pure water at 1.5 times the maximum working pressure.

### Cleaning and Packaging

FITOK thermoplastic hose components are cleaned in accordance with FITOK standard cleaning (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.



Part aNumber Description



Note: Most configurations are available but not everyone.

# Hose Connectors and Sleeves

## HC Series

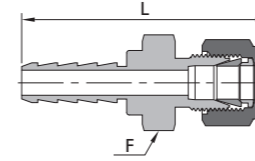
### Features

- 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.



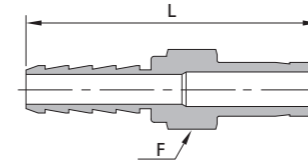
### Hose Connectors

#### Tube Fittings



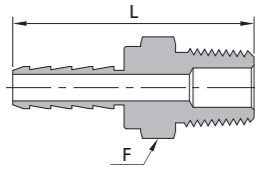
| Hose ID | Tube Size | Basic Ordering Number | Dimensions              |      |             |
|---------|-----------|-----------------------|-------------------------|------|-------------|
|         |           |                       | Minimum Inside Diameter | F    | L           |
| in.     | in.       |                       | 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



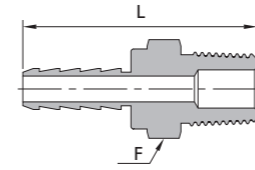
| Hose ID | Tube Size | Basic Ordering Number | Dimensions              |            |             |             |
|---------|-----------|-----------------------|-------------------------|------------|-------------|-------------|
|         |           |                       | Minimum Inside Diameter | 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     | 1/2       | -HC-F6-FT8            | 0.30 (7.6)              | 5/8        | 2.26 (57.4) |             |
|         | 3/8       | 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



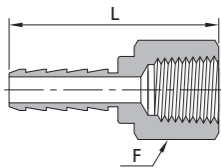
| Hose ID | NPT Size | Basic Ordering Number | Dimensions              |        |             |
|---------|----------|-----------------------|-------------------------|--------|-------------|
|         |          |                       | Minimum Inside Diameter | F      | L           |
| in.     |          |                       | 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) |

Male BSPT



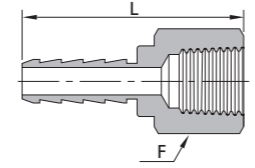
| Hose ID | BSPT Size | Basic Ordering Number | Dimensions              |        |             |
|---------|-----------|-----------------------|-------------------------|--------|-------------|
|         |           |                       | Minimum Inside Diameter | F      | L           |
| in.     |           |                       | 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 NPT



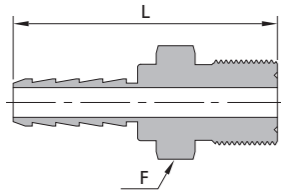
| Hose ID | NPT Size | Basic Ordering Number | Dimensions              |        |             |
|---------|----------|-----------------------|-------------------------|--------|-------------|
|         |          |                       | Minimum Inside Diameter | F      | L           |
| in.     |          |                       | 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) |

Female BSPT



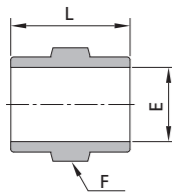
| Hose ID | BSPT Size | Basic Ordering Number | Dimensions              |        |             |
|---------|-----------|-----------------------|-------------------------|--------|-------------|
|         |           |                       | Minimum Inside Diameter | F      | L           |
| in.     |           |                       | 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) |

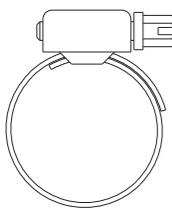
Hose Connector Sleeves



| Hose ID | Hose OD | Ordering Number | Dimension, 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

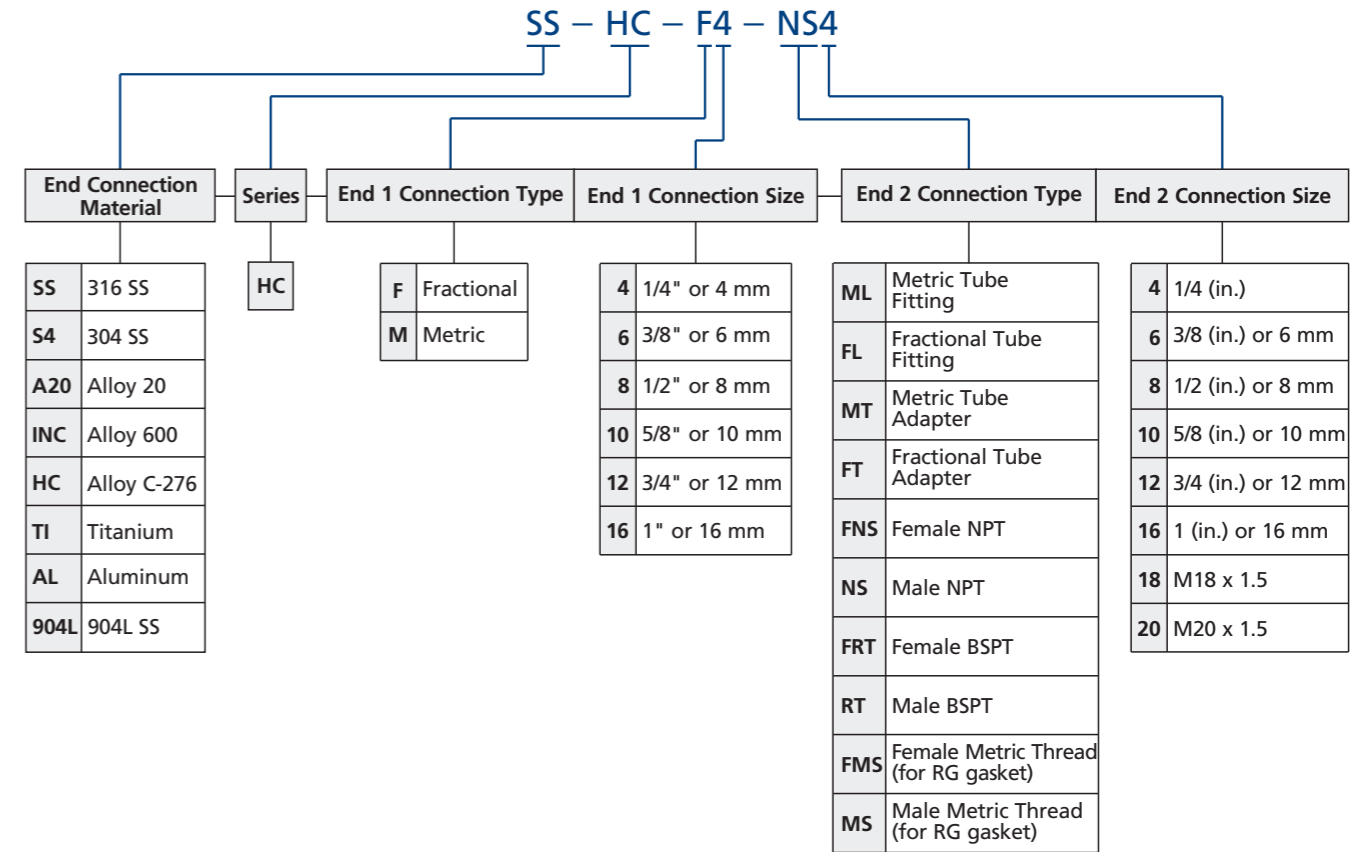


| Min Hose OD | Max Hose OD | Ordering Number |
|-------------|-------------|-----------------|
| mm          | mm          |                 |
| 8           | 12          | CP8-12          |
| 10          | 16          | CP10-16         |
| 12          | 20          | CP12-20         |
| 16        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

- Material: 304 SS
- Reusable

- Sizes and types listed are standard. Other sizes and types are available upon request, refer to the ordering information.
- All dimensions are for reference only and are subject to change. For dimensions not shown above, please contact the authorized representative or FITOK Group.

Part 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 2 connection type and size is 3/8" tube adapter.

Note: Most configurations are available but not everyone.