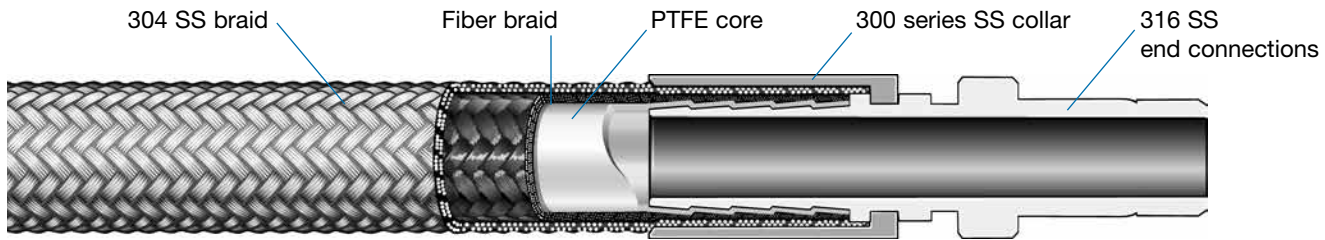


## X Series PTFE Hose

### Features

- Highly flexible PTFE hose.
- Smooth-bore PTFE core.
- Size range of 1/4 through 1 in. and working pressures up to 3500 psig (241 bar).
- Fiber braid bonded to the core with a patent-pending process supports core to resist kinking.
- 304 stainless steel braid protects the core from abrasion and enhances hose pressure rating.
- PTFE material complies with FDA regulation 21CFR Part 177.1550 USP <88> Class VI
- Optional carbon black-filled PTFE core is available for applications that require static dissipation.
- Commonly used where flexibility and chemical compatibility are desired.
- Custom hose lengths and end connections available.
- Options include hose covers and hose tags. See page 102 for details.
- For electrical properties, see page 5 for details.



### Technical Data

Nominal Hose Size in. (mm)	Inside Diameter in. (mm)	Outside Diameter in. (mm)	Minimum Inside Bend Radius in. (cm)		Temperature Range °F (°C)	Vacuum (28.5 in.Hg [96.5 kPa]) Rated to ... °F (°C)	Working Pressure at 70°F (20°C) psig (bar)	Minimum Burst Pressure at 70°F (20°C) psig (bar)	Bulk Hose Weight lb/ft (kg/m)
			Static	Dynamic					
1/4 (6.4)	0.25 (6.4)	0.46 (11.7)	1.25 (3.18)	4.20 (10.7)	-65 to 450 (-53 to 230)	450 (230)	3500 (241)	14 000 (964)	0.13 (0.19)
3/8 (9.6)	0.38 (9.6)	0.57 (14.5)	1.75 (4.44)	4.40 (11.2)		450 (230)	3000 (206)	12 000 (826)	0.17 (0.25)
1/2 (12.7)	0.50 (12.7)	0.76 (19.3)	2.50 (6.35)	4.55 (11.6)		450 (230)	1800 (124)	7 200 (496)	0.24 (0.36)
3/4 (19.0)	0.75 (19.0)	1.00 (25.4)	3.50 (8.89)	6.38 (16.2)		200 (93)	1250 (86.1)	5 000 (344)	0.36 (0.54)
1 (25.4) <sup>①</sup>	1.00 (25.4)	1.32 (33.5)	5.50 (14.0)	7.15 (18.2)		150 (65)	1000 (68.9)	4 000 (275)	1.1 (1.6)

Pressure-temperature ratings may be limited by the end connections.

① Constructed with two stainless steel braids and no fiber braid reinforcement.

### Pressure-Temperature Ratings

Nominal Hose Size, in.	1/4	3/8	1/2	3/4	1
Temperature, °F (°C)	Working Pressure, psig (bar)				
-65 (-53) to 100 (37)	3500 (241)	3000 (206)	1800 (124)	1250 (86.1)	1000 (68.9)
200 (93)	3500 (241)	2345 (161)	1800 (124)	1135 (78.2)	1000 (68.9)
300 (148)	3460 (238)	1965 (135)	1790 (123)	1010 (69.5)	895 (61.6)
400 (204)	3265 (224)	1810 (124)	1665 (114)	900 (62.0)	895 (61.6)
450 (230)	3205 (220)	1675 (115)	1665 (114)	900 (62.0)	895 (61.6)

## X Series PTFE Hose

### Testing

Every Swagelok X series hose assembly is pressure tested with water at room temperature for 30 seconds to a requirement of no detectable leakage. Testing is performed at 1000 psig (69 bar), or 225 psig (15.5 bar) if an end connection is rated below 1000 psig (69 bar).

### Cleaning and Packaging

Every Swagelok X series hose component is cleaned in accordance with Swagelok *Standard Cleaning and Packaging (SC-10)* catalog, MS-06-62.

### Ordering Information

#### Custom Hose Assemblies

Build a hose assembly ordering number by combining the designators in the sequence shown below.



#### Typical Ordering Number

**1** **2** **3** **4** **4** **5** **6** **5** **6** **7**  
SS - XT 8 TA 8 KC 16 - 28 - MB or 71 CM - MB  
in. cm

#### 1 Material

##### End Connections

SS = 316 stainless steel  
B = Brass (only on 1/4 in. PM, PF, and 1/4 in. hose size)  
HC = Alloy C-276

#### 2 Hose

XT = X series PTFE hose  
XC = X series carbon black-filled PTFE hose

#### 3 Nominal Hose Size, in.

4 = 1/4  
6 = 3/8  
8 = 1/2  
12 = 3/4  
16 = 1

#### 4 End Connections

See *End Connection Designator* column in tables on pages 69 to 78.

#### 5 Overall Length

Inches or centimeters, in whole numbers. Include **CM** as shown for centimeter lengths.

Typical maximum one-piece hose length:

- 900 in. or 2286 cm for 1/4 through 1/2 in. hose
- 600 in. or 1524 cm for 3/4 and 1 in. hose.

Longer assemblies may be spliced; specify splices under **Options**. See page 4 for more information about splices.

#### 6 Options

For multiple options, add designators with a dash between each designator.

**CRN** = Lanyard tag with CRN

**A** = Armor guard

**F** = Fire jacket

**G6** = Spiral guard, black

**G7** = Spiral guard, blue

**G8** = Spiral guard, yellow

**W** = Hydrostatic test

##### Splices

**SP1** = 1 splice

**SP2** = 2 splices

##### Mat Tags

**MA** = Gray

**MO** = Orange

**MB** = Blue

**MP** = Purple

**MC** = Brown

**MR** = Red

**MG** = Green

**MW** = White

**MK** = Black

**MY** = Yellow

**MN** = Pink

##### Other Tags

**T** = Lanyard tag

**T2** = Two lanyard tags

**T5** = Clamp tag

Specify text for tags. see **Hose Tag Text** table, page 103.

See page 102 for detailed descriptions of options.

#### 7 Two Elbow Orientation

Only include a value in the assembly number when both end connections are elbows. See page 72 for values and further information.