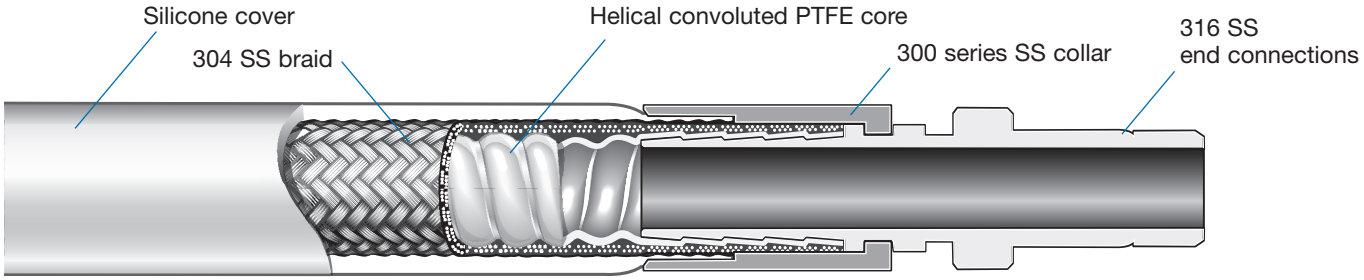
J Series PTFE Hose

Features

- Low-weight, highly flexible PTFE hose.
- Helical convoluted bore PTFE core.
- Size range of 1/2 through 1 in. and working pressures up to 1500 psig (103 bar).
- 300 series stainless steel braid ensures hose pressure containment and protects the core from abrasion.
- Silicone cover provides smooth, noncontaminating, easy-to-clean surface and insulation from internal system fluid temperature extremes.
- PTFE material complies with FDA regulation 21CFR Part 177.1550, USP <88> Class VI, 3-A (for hose sizes 3/4 and 1 in.), and is free of TSE, BSE, and ADI as defined in EMEA/410/01.
- Commonly used where high flexibility and chemical compatibility are desired.
- Custom hose lengths and end connections available.
- Options include hose covers, hose tags, and additional cleaning. See page 107 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					
1/2 (12.7)	0.50 (12.7)	0.88 (22.4)	2.50 (6.35)	3.75 (9.52)	–65 to 400 (–53 to 204)	400 (204)	1500 (103)	6000 (413)	0.28 (0.42)
3/4 (19.0)	0.75 (19.0)	1.12 (28.4)	3.00 (7.62)	3.90 (9.91)		400 (204)	1100 (75.7)	4400 (303)	0.40 (0.60)
1 (25.4)	1.00 (25.4)	1.47 (37.3)	5.50 (14.0)	7.15 (18.2)		200 (93)	750 (51.6)	3000 (206)	0.72 (1.1)

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

Pressure-Temperature Ratings

Nominal Hose Size, in.	1/2	3/4	1
Temperature, °F (°C)	Working Pressure, psig (bar)		
–65 (–53)	1500 (103)	1100 (75.7)	750 (51.6)
–20 (–28)	1500 (103)	1100 (75.7)	750 (51.6)
0 (–17) to 100 (37)	1500 (103)	1100 (75.7)	750 (51.6)
200 (93)	1500 (103)	1100 (75.7)	750 (51.6)
300 (148)	1500 (103)	1095 (75.4)	620 (42.7)
340 (171)	1500 (103)	1075 (74.0)	595 (40.9)
400 (204)	1500 (103)	1050 (72.3)	555 (38.2)
450 (230)	—	—	—

J Series PTFE Hose

Testing

Every Swagelok J 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 J 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	- JT	8	TA8	KC16	- 28	- MB	or	71CM	- MB	
					in.			cm		

1 Material

End Connections

SS = 316 stainless steel
HC = Alloy C-276

2 Hose

JT = J series helical convoluted PTFE hose with silicone cover

3 Nominal Hose Size, in.

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

4 End Connections

*See **End Connection Designator** column in tables on pages 73 to 82.*

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 1/2 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.

A = Armor guard
C = ASTM G93 Level C cleaning on hose wetted surfaces
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
MB = Blue
MC = Brown
MG = Green
MK = Black
MN = Pink
MO = Orange
MP = Purple
MR = Red
MW = White
MY = Yellow

*Add **2** to the end of the Mat Tag designator for two tags.*
*Example: MA**2***

Perma Tags

PA = Gray
PB = Blue
PC = Brown
PG = Green
PK = Black
PN = Pink
PO = Orange
PP = Purple
PR = Red
PW = White
PY = Yellow

*Add **2** to the end of the Perma Tag designator for two tags.*
*Example: PA**2***

6 Options

Other Tags

T = Lanyard tag
T2 = Two lanyard tags

*Specify text for tags. see **Hose Tag Text** table, page 109.*

See page 107 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 76 for values and further information.