

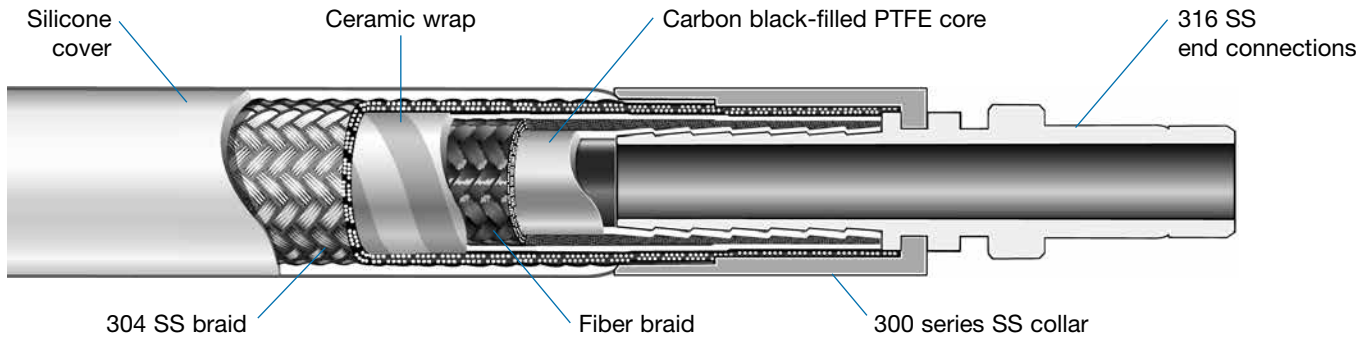
## W Series PTFE Hose

### Features

- Silicone covered PTFE hose.
- Smooth-bore, carbon black-filled PTFE core for applications that require static dissipation.
- 3/8, 1/2, and 3/4 in. sizes and working pressures up to 750 psig (51.6 bar).
- Fiber braid bonded to the core with a patent-pending process supports core to reduce kinking.
- 304 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; cover is available in black, blue, red, and white.

- PTFE material complies with FDA regulation 21CFR Part 177.1550 and USP <88> Class VI.
- Commonly used where flexibility, chemical compatibility, and exterior insulating (hot/cold) cover 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					
3/8 (9.6)	0.35 (8.9)	0.75 (19.0)	2.75 (6.98)	4.40 (11.2)	-65 to 400 (-53 to 204)	400 (204)	750 (51.6)	3000 (206)	0.29 (0.43)
1/2 (12.7)	0.50 (12.7)	0.92 (23.4)	4.25 (10.8)	6.38 (16.2)		200 (93)	750 (51.6)	3000 (206)	0.35 (0.52)
3/4 (19.0)	0.75 (19.0)	1.19 (30.2)	6.75 (17.1)	8.00 (20.3)		—	500 (34.4)	2000 (137)	0.50 (0.74)

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

### Pressure-Temperature Ratings

Nominal Hose Size, in.	3/8, 1/2	3/4
Temperature, °F (°C)	Working Pressure, psig (bar)	
-65 (-53) to 400 (204)	750 (51.6)	500 (34.4)

## W Series PTFE Hose

### Testing

Every Swagelok W 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 500 psig (34.4 bar), or 225 psig (15.5 bar) if an end connection is rated below 500 psig (34.4 bar).

### Cleaning and Packaging

Every Swagelok W 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 7 5 6 7 8  
**SS - WC 8 TA 8 KC 16 - 28 - BL - PG** or **71 CM - BL PG**  
in. cm

#### 1 Material

##### End Connections

SS = 316 stainless steel  
 HC = Alloy C-276

#### 2 Hose

WC = W series carbon black-filled PTFE hose with silicone-cover and ceramic wrap

#### 3 Nominal Hose Size, in.

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

#### 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 is 300 in. or 762 cm. Longer assemblies may be spliced; specify splices under **Options**. See page 4 for more information about splices.

#### 6 Silicone Cover Color

BK = Black  
 BL = Blue  
 RD = Red  
 WH = White

3/4 in. available with blue and red only.

#### 7 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	

##### Perma Tags

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

##### Other Tags

T = Lanyard tag  
 T2 = Two lanyard tags

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

See page 102 for detailed descriptions of options.