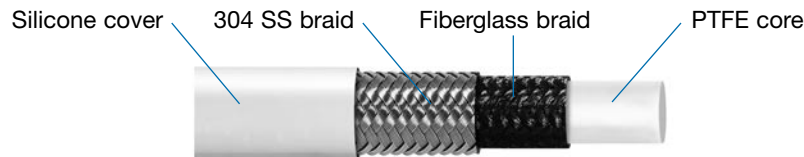


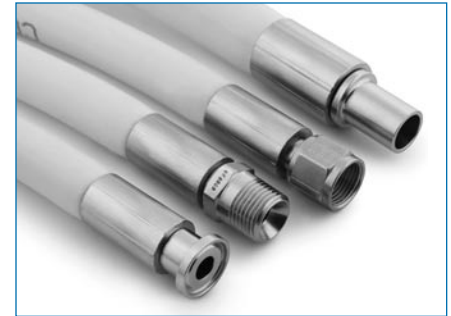
Smooth-Bore, Silicone-Covered PTFE Hose

Coreflex™ Series S-COR

Features



- -65 to 450°F (-53 to 230°C) temperature rating
- Smooth-bore PTFE core:
 - Chemically inert
 - Easy to clean
 - Nonaging, nonstick surface
 - Ultralow extractibles
 - Nonabsorbent; will not impart taste or odor.
- Easy to bend
- Drains easily
- Can be autoclaved and sterilized
- Optional carbon black PTFE core available for applications that require static dissipation
- Fiberglass braid:
 - Bonded to the core with a patent-pending process
 - Aids hose hoop strength to reduce kinking.
- 300 series stainless steel overbraid:
 - Protects core from abrasion
 - Enhances hose pressure rating.
- Silicone cover:
 - Smooth, noncontaminating, easy-to-clean surface
 - Provides insulation from internal system fluid temperature extremes.
- 316 stainless steel end connections with 304 stainless steel radially crimped collars
- Sanitary end connections:
 - Heat traceable 316L stainless steel
 - Surface finish not to exceed 15 µin. (0.38 µm) R_a
 - Internally chamfered—smooth transition between hose and end connections.
- Optional PET polyester film hose identification tag encapsulated in platinum-cured silicone:
 - Easy to read; includes hose ordering number plus up to five lines of customer-specified text.
 - Can be autoclaved and sterilized; does not hinder hose flexibility.



Product/Material Approvals

- FDA 21CFR Part 177.1550
- USDA
- USP Class VI
- 3-A

Technical Data

Nominal Hose Size in. (mm)	Hose ID in. (mm)	Hose OD in. (mm)	Static Bend Radius in. (cm)	Temperature Range °F (°C)	Working Pressure at 70°F (20°C) psig (bar)	Burst Pressure at 70°F (20°C) psig (bar)	Weight lb/ft (kg/m)
1/4 (6.4)	0.25 (6.4)	0.55 (14.0)	1.25 (3.18)	-65 to 450 (-53 to 230)	3500 (241)	14 000 (964)	0.16 (0.24)
3/8 (9.6)	0.38 (9.6)	0.71 (18.0)	1.75 (4.44)		3000 (206)	12 000 (826)	0.19 (0.29)
1/2 (12.7)	0.50 (12.7)	0.86 (21.8)	2.50 (6.35)		2000 (137)	8 000 (551)	0.25 (0.37)
3/4 (19.0)	0.75 (19.0)	1.12 (28.4)	3.50 (8.89)		1500 (103)	6 000 (413)	0.50 (0.74)
1 (25.4) ^①	1.00 (25.4)	1.55 (39.4)	5.50 (14.0)		1000 (68.9)	4 000 (275)	1.2 (1.8)

Pressure-temperature ratings may be limited by the end connections. Contact your authorized Swagelok sales and service representative for elevated pressure-temperature ratings.

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

Additional Considerations

PTFE is a permeable material. Gases, vapors, and liquids can migrate through the PTFE core. The rate of permeation is affected by many application-specific variables.

⚠ Thermal cycling of hose may affect its ability to maintain a leak-tight seal. Testing should be performed to verify suitability in actual operating conditions.

Testing, Cleaning, and Packaging

Every S-COR hose assembly is pressure tested with water for 30 to 60 seconds at 1000 psig (69 bar) or its maximum working pressure if less than 1000 psig (69 bar) to a requirement of no visible leakage at ambient temperature.

Each hose is cleaned of any assembly debris and hand wiped clean. Silicone covers are wiped clean with a 50 % isopropyl alcohol / 50 % water mixture.

Each hose is bagged with the following:

- Certification of Compliance (Hose)—FDA, USDA, USP Class VI, and 3-A compliant, including PTFE lot number.
- Material Test Report (End Connection)—Certifies material is type 316L or 316 stainless steel and lists bar stock chemical composition. Heat lot and ordering number are provided for full traceability.
- Proof Pressure Test Certificate—Certifies that each hose passed pressure testing.

Ordering Information

Typical Ordering Number

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

1 2 3 4 5 6 7 8
04 SC 11 EP 11 EP PT - 48

1 Nominal Hose Size, in.

- 04 = 1/4
- 06 = 3/8
- 08 = 1/2
- 12 = 3/4
- 16 = 1

2 Hose Series

- SC = S-COR silicone-covered PTFE hose
- SB = S-COR silicone-covered PTFE hose with static dissipative core

3 1st End Connection

5 2nd End Connection

End connection size matches nominal hose size except as noted below.

- 02 = Female JIC
- 03 = Male NPT
- 06 = Female NPT
- 07 = Female NPT union
- 08 = Male NPT union
- 10 = 1 in. Kwik-Clamp
- 10L = 1 in. Kwik-Clamp 90° elbow
- 10L45 = 1 in. Kwik-Clamp 45° elbow
- 10U = Step-up 1 1/2 in. Kwik-Clamp
- 10UU = Step-up Kwik-Clamp, 1 in. barb × 2 in. face
- 11 = Mini Kwik-Clamp^①
- 11L = Mini Kwik-Clamp 90° elbow^①
- 11L45 = Mini Kwik-Clamp 45° elbow^①
- 11U = Step-up 3/4 in. Kwik-Clamp^②
- 12 = 150 lb lap joint flange
- 16 = Female cam and groove
- 17 = Male cam and groove
- 32RNG = Tube stub, no hex or groove (annealed)
- 41 = Tube butt weld

^① 1/2 in. for 1/4 and 3/8 in. hoses; not available for 1 in. hoses.

^② Not available for 3/4 and 1 in. hoses.

4 Electropolish 1st End Connection

6 Electropolish 2nd End Connection

Omit for standard finish.

EP = Electropolishing

7 Hose Identification Tag

Omit for no tag.

PT = PET polyester film hose tag encapsulated in platinum-cured silicone

*Specify color and text; see **Hose Identification Tag**, below.*

8 Overall Length

Add length in inches.

Hose Identification Tag

Example Tag

	04SC11EP11EPPT-48
Line 1	ABC Company
Line 2	Process Line
Line 3	Building 2
Line 4	DOM: 1/1/2008
Line 5	Telephone
Color	Black

Standard colors: black, blue, gray, green, orange, red, white, yellow.

⚠ Qualified personnel should perform welding.

⚠ PTFE core hose should not exceed 450°F (230°C).

Safe Product Selection

When selecting a product, the total system design must be considered to ensure safe, trouble-free performance. Function, material compatibility, adequate ratings, proper installation, operation, and maintenance are the responsibilities of the system designer and user.

Warranty Information

Swagelok® products are backed by The Swagelok Limited Lifetime Warranty. For a copy, visit swagelok.com or contact your authorized Swagelok representative.