



Versilon™ TSS Hose

Stainless Steel Braided Silicone Covered Fluoropolymer Hose

Saint-Gobain Performance Plastics' Versilon TSS hose is constructed with a white PTFE inner core, reinforced with 304 stainless steel braid and covered with platinum-cured silicone. The ultra-smooth silicone outer cover ensures no particle entrapment in stainless steel braids, permits easy cleaning, reduces braid fraying and helps thermally insulate the hose exterior, reducing potential for burns.

Versilon TSS hose is designed with a full size internal diameter to maximize the flow rate, providing greater transfer speed when compared with similar products that come with a smaller inner diameter. TSS hose is engineered to reduce the pressure drop through the fitting area, ensuring a longer service life.

TSS hose can be autoclaved and meets the highest industry requirements including 3-A sanitary standards.

Features and Benefits

- Pure platinum-cured silicone outer cover extruded over TS Series hose permits easy cleaning
- Ultra-smooth outer cover ensures no particle entrapment in stainless steel braids
- Reduces braid fraying
- Helps insulate exterior from "burn" potential
- Single crimp collar locks in hose barb and seals off silicone cover, eliminating bulky secondary ring
- Extruded cover is "locked" onto stainless steel braid and will not move when handled
- Consult factory for special order TB Series (conductive) version with silicone cover
- May be autoclaved

Typical Applications

- Wash down hoses
- Transfer and equipment lines
- Filling equipment

Regulatory Compliance

- Compliant with FDA 21CFR 177.1550
- US Pharmacopeia Class VI
- 3-A Sanitary Standard 62-02

TSS Hose Specifications

Part Number	Inside Diameter		Outside Diameter		Maximum Working Pressure		Minimum Burst Pressure		Minimum Bend Radius		Vacuum Hg @ 70°F		Weight	
	(in)	(mm)	(in)	(mm)	(psi)	(MPa)	(psi)	(MPa)	(in)	(mm)	(in)	(mm)	(lb/ft)	(kg/m)
1604TSS40	1/4	6.4	1/2	12.7	3,000	20.68	12,000	82.74	2.00	50.8	29.9	760	0.12	0.18
1606TSS40	3/8	9.5	9/16	14.3	2,500	17.24	10,000	68.95	4.50	114.3	29.9	760	0.18	0.27
1608TSS40	1/2	12.7	3/4	19.1	2,000	13.79	8,500	58.61	5.00	127.0	29.9	760	0.25	0.37
1612TSS40	3/4	19.1	1	25.4	1,200	8.27	4,800	33.09	9.00	228.6	29.9	760	0.30	0.45
1616TSS50	1	25.4	1-1/4	31.8	800	5.52	3,500	24.13	12.00	304.8	20.0	508	0.40	0.60

NOTE: Weights and outside diameter dimensions are nominal. Data given is for hose only. End fitting vs. hose pressure limitations must be considered and the lower of the two ratings must be used on assemblies.

⚠ Important:

Burst pressure ratings at ambient 70°F (21°C). See applicable notes below on vacuum/pressure ratings at temperatures other than ambient.

Working Pressure is given at 70°F; decrease working pressure 1% for every 2°F above 350°F.

Vacuum Rating is given at 70°F; decrease vacuum rating 1% for every 2°F above 350°F. 1" size vacuum rating decreases when installed less than 2X minimum bend radius.

Construction

Inner Tube:	White PTFE			
Cover:	Platinum-cured silicone			
Reinforcement:	304 stainless steel braid			
Color:	Natural silicone			
Temperature Rating:	-80°F to +450°F (continuous) +500°F (intermittent) -62°C to +232°C (continuous) +260°C (intermittent)			
Average Length:	1/4" 3/8" 1/2"	125' 75' 125'	3/4" 1"	40' 30'

Fitting Options

Versilon Crimp Style Fittings

- Over 40 styles of stocked crimp-style fittings in a wide range of materials
- Standard: 316L stainless steel (wetted surfaces)

Common Media

- Caustic solutions
- Ultra-pure water (DI)
- Clean steam (low pressure)
- Mascara/creams/lotions

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