



Versilon™ MTL Hose Assemblies

Stainless Steel Braided Smooth Inner Tube Fluoropolymer Hose

Saint-Gobain Performance Plastics' Versilon MTL hose is constructed with an FEP smooth inner tube, a 304 stainless steel annular inner hose and 304 stainless steel outer braid reinforcement. The non-stick surface provides maximum flow rate and minimizes potential contamination.

Versilon MTL hose has excellent chemical resistance and is the most flexible smooth-tube fluoropolymer hose of its type. For applications involving aggressive or high-purity fluids, Versilon MTL hose assemblies are manufactured with Flare-Thru fittings which prevent the fluid contact on metal surfaces. The outer braid may also be fitted with an EPDM hose cover to meet 3-A Sanitary Standard 62-02.

Features and Benefits

- Excellent chemical resistance
- Non-stick surface provides maximum flow rate, minimizes potential contamination
- Not subject to corrosion, pinholing or flex cracking
- The most flexible smooth-tube fluoropolymer hose of its type
- Composite construction combines the chemical resistance of FEP with the strength of steel
- Flare-Thru fitting technology used on assemblies

Typical Applications

- Tank car and truck loading and unloading
- Weigh cells/tank isolation
- Pump connectors
- Food and beverage
- CIP lines

Regulatory Compliance

- 3-A Sanitary Standard 62-02 (EPDM cover option only)

MTL Series Hose Specifications

Part Number	Nominal Size		Inside Diameter		Outside Diameter		Maximum Working Pressure		Minimum Bend Radius		Vacuum Hg @ 70°F	
	(in)	(mm)	(in)	(mm)	(in)	(mm)	(psi)	(MPa)	(in)	(mm)	(in)	(mm)
16MTLXXXXSCT-"L"	1	25.4	7/8	22.2	1-3/8	34.9	275	1.90	10.00	254.0	29.9	760
24MTLXXXXSCT-"L"	1-1/2	38.1	1-3/8	34.9	2-1/8	54.0	275	1.90	12.00	304.8	29.9	760
32MTLXXXXSCT-"L"	2	50.8	1-3/4	44.5	2-1/2	63.5	275	1.90	18.00	457.2	29.9	760
48MTLXXXXSCT-"L"	3	76.2	2-3/4	69.9	4	101.6	275	1.90	28.00	711.2	29.9	760
64MTLXXXXSCT-"L"	4	101.6	3-3/4	95.3	5	127.0	250	1.72	42.00	1,066.8	29.9	760
96MTLXXXXSCT-"L"	6	152.4	5-3/4	146.1	7-1/8	181.0	200	1.38	60.00	1,524.0	22.0	559
128MTLXXXXSCT-"L"	8	203.2	7-3/8	187.3	9-3/8	238.1	185	1.28	84.00	2,133.6	22.0	559

⚠ Important:

Replace XXXX with 1010 for sanitary clamp fitting (1", 1-1/2" and 2" only).
 Replace XXXX with 1212 for 150# swivel flanges (1" to 8").
 Replace XXXX with 1616 for female swivel cam and grooves (1" to 3" only).

Construction

Inner Tube:	FEP	
Inner Housing:	304 stainless steel annular inner hose (standard) 316L stainless steel inner hose available	
Reinforcement:	304 stainless steel outer braid	
Vent Holes:	1/8" diameter vent holes One per end (for permeation and leak detection)	
Temperature Rating:	-65°F to +350°F -54°C to +177°C	
Maximum Length:	1" - 4" 6" - 8"	20' max. 10' max.
Minimum Length of Flare- Thru Flange x Flange Assemblies:	Nom. Hose Size	OAL
	1"	11"
	1-1/2"	11"
	2"	12"
	3"	12"
	4"	12"
	6"	14"
8"	14"	

Fitting Options

Versilon Flare-Thru Fittings

- Standard flanges: 150# epoxy-coated carbon steel lap-joint style
- 300# flanges available for interface connection only
- 304 and 316L stainless steel flanges available
- Female cam and groove (swivel style)
- 316 stainless steel body
- PFA encapsulated gaskets installed in assembly (standard)
- 1", 1-1/2" and 2" sanitary clamp style available

Common Media

- Sulfuric acid base chemicals
- Product chemicals
- Syrups/food products
- Caustic

Hose Cover Options

Custom EPDM cover (call factory for details)

- For combination of Flare-Thru fitting styles on MTL Series hose assemblies, please consult factory
- Not all fitting combinations and sizes of hoses can be manufactured
- Crimp style fittings may be installed on certain size MTL hose assemblies for special interface to all-metal or solid plastic piping systems utilizing male or female pipe threads; consult factory for availability and delivery

MTL Series: Sanitary Clamp Style Assemblies

Part Number	Nominal Size		Inside Diameter		Outside Diameter		Working Pressure 70°F		Working Pressure 350°F		Minimum Bend Radius		Vacuum Hg @ 70°F	
	(in)	(mm)	(in)	(mm)	(in)	(mm)	(psi)	(MPa)	(psi)	(MPa)	(in)	(mm)	(in)	(mm)
16MTL1010S6FT -"L"	1	25.4	7/8	22.2	1-3/8	34.9	250	1.72	250	1.72	10.00	254.0	29.9	760
24MTL1010S6FT -"L"	1-1/2	38.1	1-3/8	34.9	2-1/8	54.0	250	1.72	250	1.72	12.00	304.8	29.9	760
32MTL1010S6FT -"L"	2	50.8	1-3/4	44.5	2-1/2	63.5	250	1.72	250	1.72	18.00	457.2	29.9	760

MTL Series Hose: 150# Flanged Assemblies

Part Number	Nominal Size		Inside Diameter		Outside Diameter		Working Pressure 70°F		Working Pressure 350°F		Minimum Bend Radius		Vacuum Hg @ 70°F	
	(in)	(mm)	(in)	(mm)	(in)	(mm)	(psi)	(MPa)	(psi)	(MPa)	(in)	(mm)	(in)	(mm)
16MTL1212SCT -"L"	1	25.4	7/8	22.2	1-3/8	34.9	275	1.90	200	1.38	10.00	254.0	29.9	760
24MTL1212SCT -"L"	1-1/2	38.1	1-3/8	34.9	2-1/8	54.0	275	1.90	200	1.38	12.00	304.8	29.9	760
32MTL1212SCT -"L"	2	50.8	1-3/4	44.5	2-1/2	63.5	275	1.90	200	1.38	18.00	457.2	29.9	760
48MTL1212SCT -"L"	3	76.2	2-3/4	69.9	4	101.6	275	1.90	200	1.38	28.00	711.2	29.9	760
64MTL1212SCT -"L"	4	101.6	3-3/4	95.3	5	127.0	250	1.72	190	1.31	42.00	1,066.8	29.9	760
96MTL1212SCT -"L"	6	152.4	5-3/4	146.1	7-1/8	181.0	200	1.38	160	1.10	60.00	1,524.0	22.0	559
128MTL1212SCT -"L"	8	203.2	7-3/8	187.3	9-3/8	238.1	185	1.28	160	1.10	84.00	2,133.6	22.0	559

⚠ Important: Codes for materials: C = Epoxy coated carbon steel 150# flange. 4 = 304 stainless steel lap-joint flange 150# flange. 6 = 316 stainless steel lap-joint flange 150# flange.

MTL Series: Female Cam and Groove (Swivel) Assemblies

Part Number	Nominal Size		Inside Diameter		Outside Diameter		Working Pressure 70°F		Working Pressure 350°F		Minimum Bend Radius		Vacuum Hg @ 70°F	
	(in)	(mm)	(in)	(mm)	(in)	(mm)	(psi)	(MPa)	(psi)	(MPa)	(in)	(mm)	(in)	(mm)
16MTL1616S6FT -"L"	1	25.4	7/8	22.2	1-3/8	34.9	250	1.72	250	1.72	10.00	254.0	29.9	760
24MTL1616S6FT -"L"	1-1/2	38.1	1-3/8	34.9	2-1/8	54.0	250	1.72	250	1.72	12.00	304.8	29.9	760
32MTL1616S6FT -"L"	2	50.8	1-3/4	44.5	2-1/2	63.5	250	1.72	250	1.72	18.00	457.2	29.9	760
48MTL1616S6FT -"L"	3	76.2	2-3/4	69.9	4	101.6	150	1.03	150	1.03	28.00	711.2	29.9	760

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Saint-Gobain Performance Plastics
210 Harmony Road
Mickleton, NJ 08056
1-800-435-3992

www.processsystems.saint-gobain.com



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