



Versilon™ MTL SJ Hose Assemblies

Stainless Steel Braided Stainless Steel Jacketed Smooth Inner Tube Fluoropolymer Hose

Saint-Gobain Performance Plastics' Versilon MTL SJ hose is constructed with a FEP smooth inner tube, a 304 stainless steel annular inner hose, a seal-welded secondary stainless steel outer jacket and a 304 stainless steel braided reinforcement. It is a "hose within a hose" and ideal design when heating and cooling the transferred media is required.

Versilon MTL SJ hose features a pure corrosion resistant FEP fluoropolymer liner which is may be formed using Flare-Thru technology to prevent fluid contact with hose fittings. MTL SJ hose is flexible, easy to install, and the ideal choice for applications requiring thermal transfer.

Features and Benefits

- "Hose within a hose"
- Seal-welded secondary stainless steel metal hose encasing Versilon MTL Series hose
- Chemical resistant and pure FEP fluoropolymer liner
- Flexible, easy to install
- Flare-Thru fitting options provide easy connection with existing piping systems
- Eliminate entrapment
- Full flow, no restriction through fitting
- No pressure drop – same ID through hose and fitting
- Type of inlet/outlet connections and location for heating/cooling media can be customized for your particular requirements
- Excellent heating/cooling thermal transfer
- Ideal for maintaining media temperature

Typical Applications

- Chemical transfer
- Food transfer
- Applications requiring a pure fluid path
- Applications requiring thermal transfer

MTLSJ Series: Sanitary Clamp Style Assemblies

Part Number	End Type (Flange)		Inner Nominal Size		Inner Hose I.D.		Inner Hose O.D.		Outer Nominal Size		Outer Hose I.D.		Outer Hose O.D.		Minimum Bend Radius	
	(in)	(mm)	(in)	(mm)	(in)	(mm)	(in)	(mm)	(in)	(mm)	(in)	(mm)	(in)	(mm)	(in)	(mm)
16MTLSJ1010S6T	1	25.4	1	25.4	7/8	22.2	1-3/8	34.9	2	50.8	2	50.8	2-1/2	63.5	12	304.8
24MTLSJ1010S6T	1-1/2	38.1	1-1/2	38.1	1-3/8	34.9	2-1/8	54.0	3	76.2	3	76.2	4-1/2	114.3	15	381.0
32MTLSJ1010S6T	2	50.8	2	50.8	1-9/16	39.7	2-1/2	63.5	4	101.6	4	101.6	5	127.0	20	508.0

MTLSJ Series: 150# Flanged Assemblies

Part Number	End Type (Flange)		Inner Nominal Size		Inner Hose I.D.		Inner Hose O.D.		Outer Nominal Size		Outer Hose I.D.		Outer Hose O.D.		Minimum Bend Radius	
	(in)	(mm)	(in)	(mm)	(in)	(mm)	(in)	(mm)	(in)	(mm)	(in)	(mm)	(in)	(mm)	(in)	(mm)
16MTLS1212SX6FT	1	25.4	1	25.4	7/8	22.2	1-3/8	34.9	2	50.8	2	50.8	2-1/2	63.5	12	304.8
24MTLS1212SX6FT	1-1/2	38.1	1-1/2	38.1	1-3/8	34.9	2-1/8	54.0	3	76.2	3	76.2	4-1/2	114.3	15	381.0
32MTLS1212SX6FT	2	50.8	2	50.8	1-9/16	39.7	2-1/2	63.5	4	101.6	4	101.6	5	127.0	20	508.0
48MTLS1212SX6FT	3	76.2	3	76.2	2-9/16	65.1	4	101.6	5	127.0	5	127.0	6-1/8	155.6	30	762.0

⚠ 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.

MTLSJ Series: Female Cam and Groove (Swivel) Assemblies

Part Number	End Type (Flange)		Inner Nominal Size		Inner Hose I.D.		Inner Hose O.D.		Outer Nominal Size		Outer Hose I.D.		Outer Hose O.D.		Minimum Bend Radius	
	(in)	(mm)	(in)	(mm)	(in)	(mm)	(in)	(mm)	(in)	(mm)	(in)	(mm)	(in)	(mm)	(in)	(mm)
16MTLSJ1616SFT	1	25.4	1	25.4	7/8	22.2	1-3/8	34.9	2	50.8	2	50.8	2-1/2	63.5	12	304.8
24MTLSJ1616SFT	1-1/2	38.1	1-1/2	38.1	1-3/8	34.9	2-1/8	54.0	3	76.2	3	76.2	4-1/2	114.3	15	381.0
32MTLSJ1616SFT	2	50.8	2	50.8	1-9/16	39.7	2-1/2	63.5	4	101.6	4	101.6	5	127.0	20	508.0
48MTLSJ1616SFT	3	76.2	3	76.2	2-9/16	65.1	4	101.6	5	127.0	5	127.0	6-1/8	155.6	30	762.0

Construction

Inner Tube:	FEP										
Inner Housing:	304 stainless steel annular inner hose (standard) 316L stainless steel inner hose available										
Outer Jacket:	Seal-welded secondary stainless steel hose										
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:	20' max. (all sizes)										
Minimum Length of Flare- Thru Flange x Flange Assemblies:	<table border="1"> <thead> <tr> <th>Nom. Hose Size</th> <th>OAL</th> </tr> </thead> <tbody> <tr> <td>1"</td> <td>11"</td> </tr> <tr> <td>1-1/2"</td> <td>11"</td> </tr> <tr> <td>2"</td> <td>12"</td> </tr> <tr> <td>3"</td> <td>12"</td> </tr> </tbody> </table>	Nom. Hose Size	OAL	1"	11"	1-1/2"	11"	2"	12"	3"	12"
Nom. Hose Size	OAL										
1"	11"										
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3"	12"										
Vacuum Rating:	29.9 in Hg. at 70°F										

Fitting Options

Versilon Flare-Thru Fittings

- Standard flanges: 150# epoxy-coated carbon steel lap-joint style
- 304 and 316L stainless steel flanges available
- Female cam and groove (swivel style), 1" to 3"
- 1", 1-1/2" and 2" sanitary clamp style

Common Media

- Lipstick
- Confectionary transfer
- Gel coatings for tablets

- For combination of Flare-Thru fitting styles on MTL SJ Series hose assemblies, please consult factory
- Special order construction to exacting customer requirements are standard
- If a higher temperature rating is required, Versilon Metal Hose Assemblies are available in 304 and 316L stainless steel without a fluoropolymer liner.

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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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