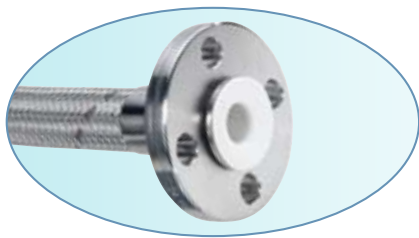


# MTL Series Hose Assemblies

## Stainless Steel Braided Metal Hose

### Chemfluor® FEP Fluoropolymer Smooth Inner Tube • Flare-Thru Fittings

applications	common media	industry approvals & compliances
<ul style="list-style-type: none"> <li>Tank car and truck loading and unloading</li> <li>Weigh cells/tank isolation</li> <li>Pump connectors</li> <li>Food and beverage</li> <li>CIP lines</li> </ul>	<ul style="list-style-type: none"> <li>Sulfuric acid base chemicals</li> <li>Product chemicals</li> <li>Syrups/food products</li> <li>Caustic</li> </ul>	<ul style="list-style-type: none"> <li>3-A Sanitary Standard 62-01 (EPDM cover option only)</li> </ul>



MTL

### features & benefits

- Excellent chemical resistance
- High purity, non-contaminating
- 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
- All stainless steel construction (except liner)

### details

#### construction

- Inner tube: Chemfluor® 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)

#### cover option NEW!

- Custom EPDM cover (call factory for details)

#### fittings

- Flare-Thru fitting technology available
- Standard flanges: 150# epoxy-coated carbon steel lap-joint style
  - 300# flanges available for interface connection only
  - 304 and 316L stainless steel flanges available (optional)
- Female cam and groove (swivel style)
  - 316 stainless steel body
  - Chemfluor® PFA encapsulated gaskets installed in assembly (standard)
- 1", 1-1/2" and 2" sanitary clamp style available
- See page 36 for more on Flare-Thru fitting technology

### engineering specifications

#### maximum length

1" - 4"    20' max.  
6" - 8"    10' max.

#### temperature rating

- 65°F to +350°F
- 54°C to +177°C

#### vacuum rating

- 29.9 in. Hg@70°F

#### 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"

### 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
16MTLXXXSCT-"L"	1	25.4	7/8	21.8	1-3/8	34.3	275	1.90	10.00	254.00	29.9	760
24MTLXXXSCT-"L"	1-1/2	38.1	1-3/8	35.6	2-1/8	53.3	275	1.90	12.00	304.80	29.9	760
32MTLXXXSCT-"L"	2	50.8	1-3/4	45.7	2-1/2	64.8	275	1.90	18.00	457.20	29.9	760
48MTLXXXSCT-"L"	3	76.2	2-3/4	71.1	4	102.9	275	1.90	28.00	711.20	29.9	760
64MTLXXXSCT-"L"	4	101.6	3-3/4	96.5	5	127.0	250	1.72	42.00	1066.80	29.9	760
96MTLXXXSCT-"L"	6	152.4	5-3/4	147.3	7-1/8	180.3	200	1.38	60.00	1524.00	22.0	559
128MTLXXXSCT-"L"	8	203.2	7-3/8	198.1	9-3/8	237.5	185	1.28	84.00	2133.60	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)

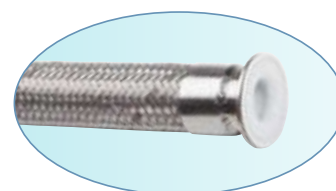
## MTL Series Flare-Thru Fitting Styles

### details

- For fitting length dimensions, see charts on pages 37-39
- 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
- Minimum and maximum length of hose assemblies listed on preceding page

### MTL Series: Sanitary Clamp Style Assemblies

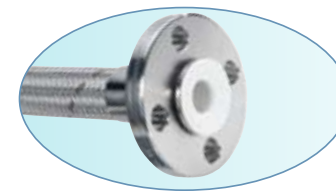
Part Number	Nominal Size		Inside Diameter		Outside Diameter		Working Pressure 70°F		Working Pressure 350°F		Minimum Bend Radius		Vacuum Hg @ 70°F	
	in.	mm	in.	mm	in.	mm	PSI	MPa	PSI	MPa	in.	mm	in.	mm
16MTL1010S6FT -"L"	1	25.4	7/8	21.8	1-3/8	34.3	250	1.72	250	1.72	10.00	254.00	29.9	760
24MTL1010S6FT -"L"	1-1/2	38.1	1-3/8	35.6	2-1/8	53.3	250	1.72	250	1.72	12.00	304.80	29.9	760
32MTL1010S6FT -"L"	2	50.8	1-3/4	45.7	2-1/2	64.8	250	1.72	250	1.72	18.00	457.20	29.9	760



Sanitary Clamp Style

### MTL Series: 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	21.8	1-3/8	34.3	275	1.90	200	1.38	10.00	254.00	29.9	760
24MTL1212SCT -"L"	1-1/2	38.1	1-3/8	35.6	2-1/8	53.3	275	1.90	200	1.38	12.00	304.80	29.9	760
32MTL1212SCT -"L"	2	50.8	1-3/4	45.7	2-1/2	64.8	275	1.90	200	1.38	18.00	457.20	29.9	760
48MTL1212SCT -"L"	3	76.2	2-3/4	71.1	4	102.9	275	1.90	200	1.38	28.00	711.20	29.9	760
64MTL1212SCT -"L"	4	101.6	3-3/4	96.5	5	127.0	250	1.72	190	1.31	42.00	1,066.80	29.9	760
96MTL1212SCT -"L"	6	152.4	5-3/4	147.3	7-1/8	180.3	200	1.38	160	1.10	60.00	1,524.00	22.0	559
128MTL1212SCT -"L"	8	203.2	7-3/8	198.1	9-3/8	237.5	185	1.28	160	1.10	84.00	2,133.60	22.0	559



150# Flanged

#### ⚠ Important:

Codes for materials:

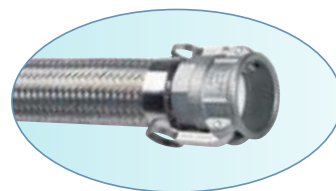
C = Epoxy coated carbon steel 150# flange.

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	21.8	1-3/8	34.3	250	1.72	250	1.72	10.00	254.00	29.9	760
24MTL1616S6FT -"L"	1-1/2	38.1	1-3/8	35.6	2-1/8	53.3	250	1.72	250	1.72	12.00	304.80	29.9	760
32MTL1616S6FT -"L"	2	50.8	1-3/4	45.7	2-1/2	64.8	250	1.72	250	1.72	18.00	457.20	29.9	760
48MTL1616S6FT -"L"	3	76.2	2-3/4	71.1	4	102.9	150	1.03	150	1.03	28.00	711.20	29.9	760



Female Cam and Groove (Swivel)

Consult factory for these fittings