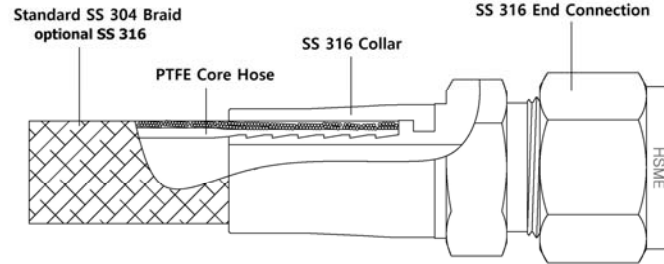




FT Series PTFE Hose Assembly



- Double braid layer of SS 304 for maximum pressure containment.
- Smooth PTFE Core hose.
- End connection size 1/4 through 1 in.
- Hose flexibility protects against kinking and abrasion.

Factory Test

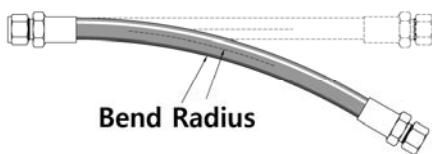
Every hose assembly is water pressure tested at 1.5 times working pressure to a requirement of no visible leakage at room temperature.

Technical Information

FT Series	Nominal Hose Size in. (mm)	Outside Diameter in. (mm)	Inside Diameter in. (mm)	Temp. Range °F(°C)	Working Pressure @ 70°F(20°C) psig (bar)	Burst Pressure @ 70°F(20°C) psig (bar)	Minimum Inside Bend Radius in. (cm)		Vacuum 10 ⁻⁷ Torr @100°F(38°C)	
							Static	Dynamic		
FT	4-	1/4 (6.4)	0.35 (9.0)	0.20 (5.0)	-65 to 450 (-53 to 230)	3000 (206)	12000 (826)	1.50 (3.81)	2.00 (5.08)	450 (230)
	6	3/8 (9.5)	0.44 (11.1)	0.31(8.0)		2500 (172)	10000 (689)	3.50 (8.89)	5.00 (12.7)	450 (230)
	8	1/2 (12.7)	0.59 (15.0)	0.39 (10.0)		2000 (137)	8000 (551)	4.50 (11.4)	6.00 (15.2)	450 (230)
	12	3/4 (19.0)	0.87 (22.0)	0.63 (16.0)		1500 (103)	6000 (413)	6.00 (15.2)	7.50 (19.0)	450 (230)
	16	1 (25.4)	1.12 (28.5)	0.87 (22.2)		1000 (68.9)	4000 (275)	9.00 (22.9)	11.3 (28.7)	400 (204)

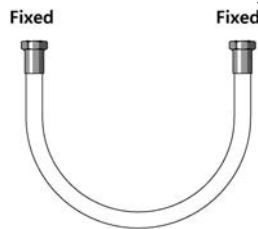
Minimum Inside Bend Radius

The smallest bend radius applicable.



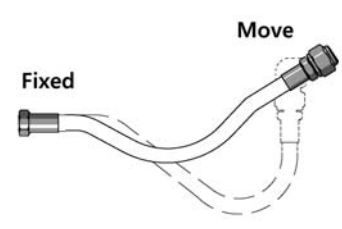
Static Application

Where the hose does not move in any plane.



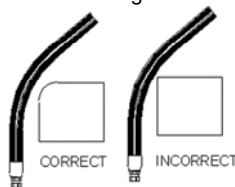
Dynamic Application

Where one end of the hose moves or flexes.

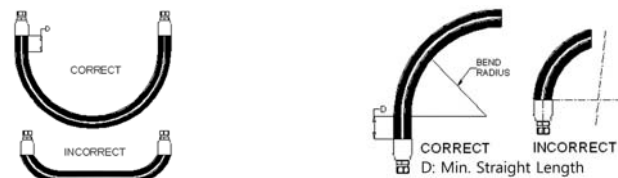


Hose User's Guide as per SAE J1273 – 2009

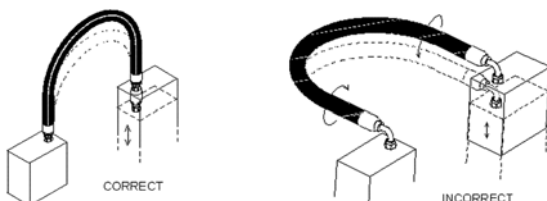
Prevent External Damage



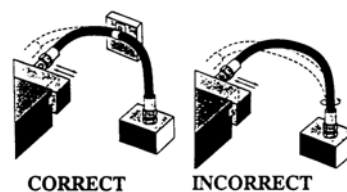
Hose Bending - Minimum Straight Length "D" should be in place



Bend in only one plane to avoid Tube Twisting



Prevent hose bending in more than one plane



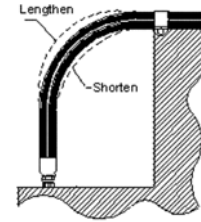
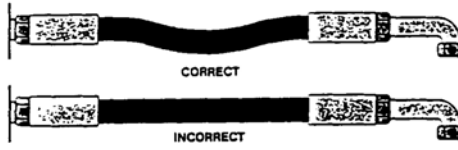
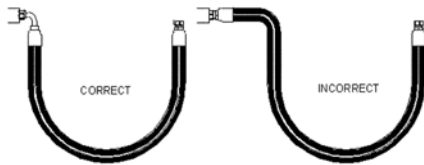
FT Series Flexible PTFE Hose Assembly

Hose User's Guide as per SAE J1273 - 2009

Use elbows or adapters to relieve hose strain

Design length to accommodate change due to machine motion and tolerances

Design length to accommodate length changes from changing pressures



Pressure-Temperature Ratings

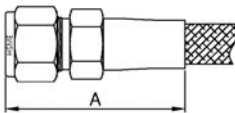
FT Series	-4	-6	-8	-12	-16
Temp. °F(°C)	Working Pressure, psig (bar)				
-63 (-53)	2250 (155)	1875 (129)	1500 (103)	1125 (77.5)	750 (51.6)
0 (-17) to 100 (37)	3000 (206)	2500 (172)	2000 (137)	1500 (103)	1000 (68.9)
200 (93)	1740 (119)	1450 (99.9)	1160 (79.9)	870 (59.9)	580 (39.9)
300 (148)	1560 (107)	1300 (89.5)	1040 (71.6)	780 (53.7)	520 (35.8)
400 (204)	1440 (99.2)	1200 (82.6)	960 (66.1)	720 (49.6)	480 (33.0)
450 (230)	1380 (95.0)	1150 (79.2)	920 (63.3)	690 (47.5)	460 (31.6)

Table 1. Ordering Information and Dimensions

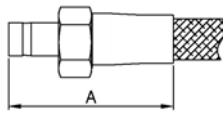
Unit: in. (mm)

Series	M Fitting OD				Tube Adapter OD				NPT Thread				
	Fractional	A	Metric	A	Fractional	A	Metric	A	Male	A	Female	A	
FT	4-	A2T-	1.93 (49.0)	-	-	A4TA-	1.64 (41.7)	A6MTA	1.66 (42.2)	M4N-	1.88 (47.8)	F4N	1.88 (47.8)
		A4T-	1.97 (50.0)	A6M-	1.97 (50.0)	-	-	A8MTA	1.99 (50.5)	-	-	-	-
	6-	A6T-	2.20 (55.9)	A10M	1.93 (35.3)	A6TA-	1.74 (44.2)	A10MTA	2.13 (54.1)	M4N-	1.91 (48.5)	F4N	1.84 (46.7)
		-	-	-	-	-	-	-	-	M6N-	1.91 (48.5)	F6N	1.95 (49.5)
	8-	A8T-	2.75 (70.0)	A12M	2.68 (68.2)	A6TA-	2.54 (64.7)	A12MTA	2.79 (71.0)	M4N-	2.17 (55.1)	F8N	2.49 (63.3)
		-	-	-	-	A8TA-	3.12 (79.3)	-	-	M6N-	2.17 (55.1)	-	-
		-	-	-	-	-	-	A16MTA	2.79 (71.0)	M8N-	2.39 (60.7)	-	-
	12-	A12T-	3.14 (79.9)	A18M	3.00 (76.1)	A12TA	2.87 (72.9)	A18MTA	2.86 (73.3)	M8N-	2.41 (61.2)	F12N	2.51 (63.8)
		-	-	-	-	A16TA	3.44 (87.3)	-	-	M12N-	2.41 (61.2)	-	-
	16-	-	-	-	-	A12TA	3.54 (89.9)	A25MTA	3.76 (95.4)	M12N-	3.00 (76.2)	-	-
		-	-	-	-	A16TA	4.11(104.6)	-	-	M16N-	3.26 (82.8)	-	-

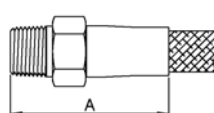
M Fittings



Tube Adapter



Male NPT



Female NPT

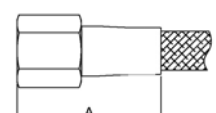
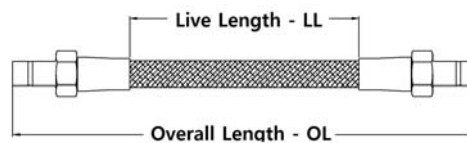


Table 2. Hose Length Designator

Designator	Hose Length, in. (cm)	
	OL	LL
14L	14.0 (35.6)	12.0 (30.5)
20L	20.0 (50.8)	18.0 (45.7)
26L	26.0 (66.0)	24.0 (61.0)
38L	38.0 (96.5)	36.0 (91.4)
50L	50.0 (127)	48.0 (122)
60L	62.0 (157)	60.0 (152)
74L	74.0 (188)	72.0 (183)
122L	122 (310)	120.0 (305)



In case metric "Centimeter" instead of "inch" overall length is required, use unit "CM" in the ordering number. Example: **50CM** for 50 centimeter overall length.

How To Order

- Step1. Select an applicable part number from Table 1.
- Step2. Add an applicable hose length designator from Table 2. In case metric length is required, use "CM" unit.
- Step3. Add "SS" designator for optional SS316 braid material.
- Step4. Suffix "SS" designator for SS316 end connection material.

Step	M Fitting OD	Tube Adapter OD	NPT Thread
1	FT4-A4T-	FT6-A6TA-	FT8-M6N-
2	FT-4-A4T- 26L-	FT-6-A6TA- 38L-	FT-8-M6N- 50CM-
3	FT-4-A4T-26L- SS	FT-6-A6TA-38L-	FT-8-M6N-50CM-
4	FT-4-A4T-26L-SS- SS	FT-6-A6TA-38L- SS	FT-8-M6N-50CM- SS

Safe Valve Selection

The selection of a hose for any application or system must be considered to ensure safe performance. Rating, function, material compatibility, proper installation, operation and maintenance remain the sole responsibility of the system designer and the user. HSME Corporation accepts no liability for any improper selection, compatibility, installation, operation or maintenance.