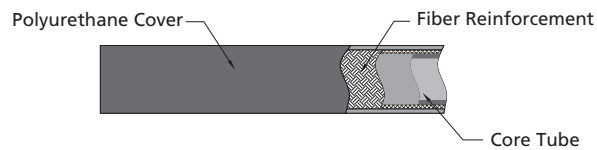


Thermoplastic Hoses

TH Series

Features

- Polyurethane cover: resists oil, weather and abrasion
- Reinforcement: double-braid high-strength synthetic fiber
- Core tube: nylon
- Working pressure up to: 5000 psig (345 bar)
- Hose size: 3/16" to 1"
- Working temperature: -40°F to 200°F (-40°C to 93°C)
- End connections: 1/4 to 1 thread, 1/4" to 1" and 6 mm to 22 mm tube fitting
- End connection materials: stainless steel, brass and carbon steel
- Custom-length available



Technical Data

Thermoplastic Hydraulic Hose (SAE 100R7)

Nominal Hose Size	Hose Series	Min. Inside Bend Radius	Inside Diameter	Temperature Range	Working Pressure at 70°F (20°C)	Min. Burst Pressure at 70°F (20°C)	Specification
in. (mm)		in. (mm)	in. (mm)	°F (°C)	psig (bar)	psig (bar)	
3/16 (4.8)	TH3	1.58 (40)	0.19 (4.8)	-40 to 200 (-40 to 93)	3000 (207)	12000 (828)	SAE J517 100R7
1/4 (6.4)	TH4	1.97 (50)	0.25 (6.4)		2750 (189)	11000 (758)	
5/16 (8.0)	TH5	2.36 (60)	0.31 (7.9)		2500 (173)	10000 (690)	
3/8 (9.6)	TH6	2.95 (75)	0.38 (9.8)		2250 (155)	9000 (620)	
1/2 (12.7)	TH8	3.74 (95)	0.50 (12.7)		2000 (137)	8000 (551)	

Thermoplastic Hydraulic Hose (SAE 100R8)

Nominal Hose Size	Hose Series	Min. Inside Bend Radius	Inside Diameter	Temperature Range	Working Pressure at 70°F (20°C)	Min. Burst Pressure at 70°F (20°C)	Specification
in. (mm)		in. (mm)	in. (mm)	°F (°C)	psig (bar)	psig (bar)	
3/16 (4.8)	TH3	2.00 (50.8)	0.19 (4.8)	-40 to 200 (-40 to 93)	5000 (344)	20000 (1378)	SAE J517 100R8
1/4 (6.4)	TH4	2.00 (50.8)	0.25 (6.4)		5000 (344)	20000 (1378)	
3/8 (9.6)	TH6	2.50 (63.5)	0.38 (9.8)		4000 (275)	16000 (1102)	
1/2 (12.7)	TH8	4.00 (102)	0.50 (12.7)		3500 (241)	14000 (964)	
3/4 (19.0)	TH12	6.50 (165)	0.75 (19.0)		2250 (155)	9000 (620)	
1 (25.4)	TH16	10.0 (254)	1.00 (25.4)		2000 (137)	8000 (551)	

Testing

Every FITOK thermoplastic hose assembly is factory tested with pure water at 1.5 times the maximum working pressure.

Cleaning and Packaging

FITOK thermoplastic hose components are cleaned in accordance with FITOK standard cleaning (FC-01) for general industrial procedures. Shorter hoses are packed in cartons with suitable protective material, longer hoses are coiled, bagged and boxed or crated.

Thermoplastic Hose Assemblies



Part aNumber Description

SS – TH4 – FL4 – SAN4 – M1000 – R7

End Connection Material	Hose Series	End 1 Connection Type	End 1 Connection Size	End 2 Connection Type and Size	Overall Length	Hose Code
SS 316 SS	TH3 3/16" (4.8 mm)	ML Metric Tube Fitting	4 1/4 (in.)	Same as End 1	FXX XX in.	R7 100R7
CS Carbon Steel	TH4 1/4" (6.4 mm)	FL Fractional Tube Fitting	6 3/8 (in.) or 6 mm	Specify in the same way as the end 1 connection type and size	MXX XX mm	R8 100R8
S4 304 SS	TH5 5/16" (7.9 mm)	MT Metric Tube Adapter	8 1/2 (in.) or 8 mm			
904L 904L SS	TH6 3/8" (9.5 mm)	FT Fractional Tube Adapter	10 5/8 (in.) or 10 mm			
	TH8 1/2" (12.7 mm)	NS Male NPT	12 3/4 (in.) or 12 mm			
		RT Male BSPT	16 1 (in.) or 16 mm			
		SRG Female BSPP Swivel (for RG gasket)				
		FMS Female Metric Thread (for RG gasket)				
		MS Male Metric Thread (for RG gasket)				
		SMS Female Metric Thread Swivel (for RG gasket)				
		SAN Female JIC 37° Flare Swivel				

Example: SS-TH4-FL4-NS4-F36-R7

SS: End connection material is 316 stainless steel.

TH4: TH series, hose size is 1/4"

FL4: End 1 connection type and size is 1/4" tube fitting.

NS4: End 2 connection type and size is 1/4 male NPT.

F36: Overall length is 36"

R7: SAE J517 100R7.

Note: Most configurations are available but not everyone.

End 1 and end 2 follow the orders and regulations below:

- Metric Double Ferrules - Fractional Double Ferrules - Metric Tube Adapters - Fractional Tube Adapters - NPT Threads - BSPT Threads - BSPP Threads - SAE/MS Parallel Threads - 37° Flare - Others
- Put the sizes from the biggest down to the smallest if they are of the same type.
- Put the female before male if they are of the same type and size.