

Teflon® Hose Assemblies Thru 1"

Small Bore (thru 1")



Construction: Smooth tube of anti-static (conductive) Teflon. Braid(s) reinforcements of densely packed, high tensile Type 304 stainless steel wire. Reinforcement design varies size by size. Fittings are Type 316 stainless steel.

Operating temperature range: -65°F (-54°C) to 400°F (204°C)

Features/applications: Non-aging hose designed for high pressure hydraulic or pneumatic service. Non-stick Teflon surface ideal for viscous material transfer. Teflon also minimizes pressure drop loss.

Exceeds SAE 100R8 and SAE 100R9 standards. Flexible, chemically resistant, moisture resistant, low volumetric expansion.

Nom. Size (In.)	Hose Size I.D. (In.)	Nom. Hose O.D. (In.)	Max. Operating Pressure Room Temp. (psi)	Min. Burst Pressure (psi)		Min. Bend Radius (In.)	Part No.
				Room Temp.	400°F (204°C)		
¼	0.212	0.375	5000	16000	12000	1.50	1704TH000
⅜	0.308	0.475	5000	16000	12000	2.50	1706TH000
½	0.402	0.600	5000	16000	12000	2.88	1708TH000
⅝	0.495	0.710	5000	16000	12000	3.25	1710TH000
¾	0.618	0.970	5000	16000	12000	4.00	1712TH000
1	0.868	1.250	5000	16000	9000	5.00	1716TH000

Teflon® Hose Assemblies Fitting Options

Female JIC Swivel



Nom. Size (In.)	Thread
¼	7/16-20
⅜	9/16-18
½	3/4-16
⅝	7/8-14
¾	1 1/16-12
1	1 5/8-12

Female Pipe FNPT



Nom. Size (In.)	Thread
¼	1/4-18
⅜	N.A.
½	1/2-14
⅝	1/2-14
¾	N.A.
1	N.A.

Female O-ring



Nom. Size (In.)	Thread
¼	5/16-18
⅜	N.A.
½	1-14
⅝	N.A.
¾	C.F.
1	C.F.

Male NPT



Nom. Size (In.)	Thread
¼	1/4-18
⅜	3/8-18
½	1/2-14
⅝	1/2-14
¾	3/4-14
1	1-11 1/2

JIC Male NPT Union



Nom. Size (In.)	Thread
¼	1/4-18
⅜	3/8-18
½	1/2-14
⅝	1/2-14
¾	3/4-14
1	1-11 1/2

Teflon® Hose Assemblies Thru 1" — *continued*

Covers



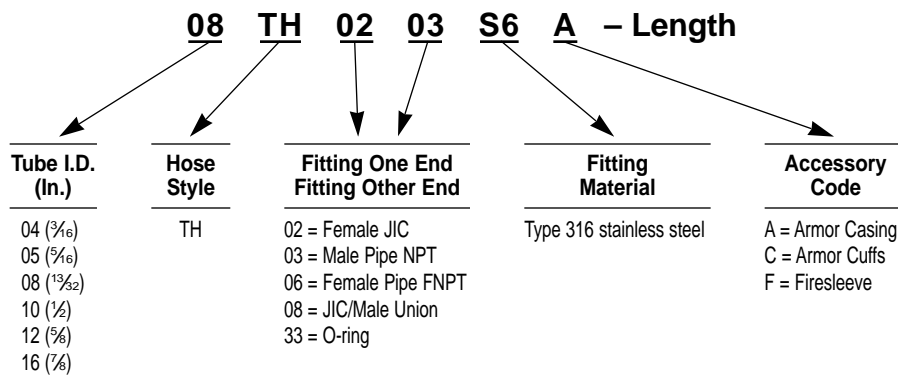
Firesleeve/insulating sleeve: Protects hose from direct flame or external heat. Helps insulate workers from internal heat. Material is braided fiberglass tubing impregnated with silicone rubber (accessory code F).



Anti-kink casing: Stainless steel armor prevents over bending/kinking of hose and provides chafe protection for the wire braid. Casing provides added safety...allowing hose assembly to weep rather than rupture if for some reason tube should fail (accessory code A).

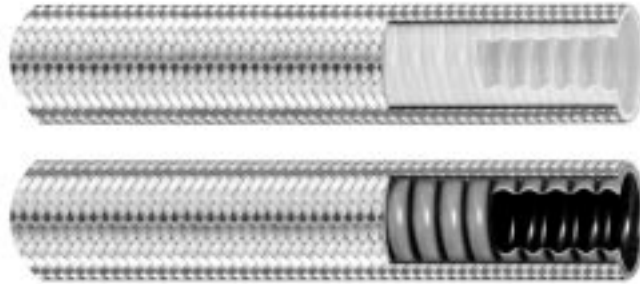
How to Order Small Bore

Part Number Example: 08TH0203S6A



Teflon® Hose Assemblies $\frac{3}{8}$ " Thru 3"

Large Bore —
 Convoluted Tube (3/8" thru 3")



Teflon® tube

- Pure Teflon: white or static dissipating conductive.
 - WSC: natural white Teflon tube.
 - BCS: conductive tube to 10^{-6} MΩ.
 - Both tubes are low profile, self-draining, helical convolution form.
- Neutral to taste, color or odor.
- Non-stick, non-contaminating tube cleans easily.
- Steam, detergent or caustic cleanable.

Temperature rating: -100°F (-73°C) to 450°F (232°C).

Reinforcement

- High tensile Type 304 stainless steel braided.
- Working pressure based on minimum 4:1 safety factor; burst to suggested maximum working pressure.

Approvals

- FDA (Food and Drug Administration).
- United States Pharmacopeia Class VI.

Fittings: Over 30 stocked styles.

Size (In.)	I.D. (In.)	O.D. (In.)	Min. Operating Pressure Room Temp. (psi)	Rated Operating Pressure (psi)	Min. Bend Radius (In.)	Vacuum Resistance* (In. of Mercury)	Part No.
$\frac{3}{8}$	0.38	0.610	8800	2000	1.75	Full	2706 WCS or BCS
$\frac{1}{2}$	0.50	0.687	6000	1500	2.50	Full	2708 WCS or BCS
$\frac{3}{4}$	0.75	1.093	4800	1200	3.00	Full	2712 WCS or BCS
1 $\frac{1}{4}$	1.00	1.360	4300	1000	3.25	Full	2716 WCS or BCS
1 $\frac{1}{2}$	1.25	1.594	3200	750	6.00	26	2720 WCS or BCS
1 $\frac{3}{4}$	1.50	1.900	2600	650	6.50	24	2724 WCS or BCS
2†	2.00	2.425	2100	450	7.50	20	2732 WCS or BCS

†For styles above 2" I.D. consult literature regarding TWOB or TBOB Series Hose.

*Vacuum resistance measured with hose bent to 2x minimum bend radius, ambient temperature.

Rubber Covered Teflon® Smooth Tube

Teflon® Smooth Tube



Teflon® tube

- Pure Teflon; white tube (TLCT).
- Unexcelled chemical resistance.
- Compatible with all material.
- Easy to clean.
 - Assured sterility.
 - Non-stick smooth tube.
 - Can be cleaned with steam, caustics, solvents or other cleaning agents.
- Durable, kink resistant with no external wire reinforcement to potentially fray.
- Full vacuum rated.
- The most flexible, smooth tube Teflon design.

Temperature rating: -40°F (-40°C) to 350°F (177°C)

Has successfully passed internal steam tests at 406°F (208°C).

Construction: Smooth tube internally bonded to a rubber hose type construction. Multiple reinforcement, double helix wire supported. Chemically resistant, ozone and abrasion resistant cover.

Approvals

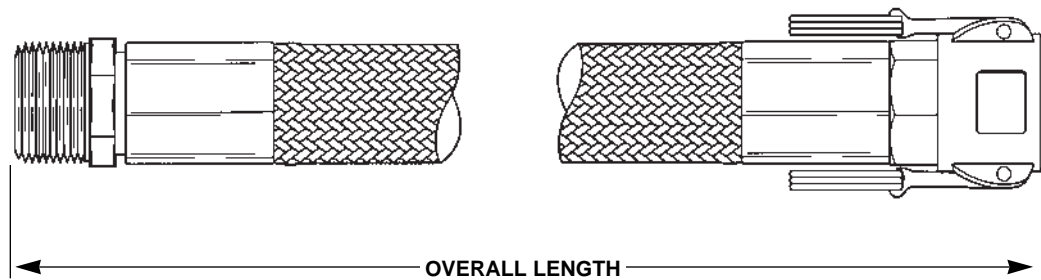
- FDA (Food and Drug Administration).
- United States Pharmacopeia Class VI.

Fittings: Over 36 styles of stocked crimp design. 'Flare thru™' designs available. Bolt-on or clamped fitting styles optional.

Size I.D. (In.)	Size Nom. O.D. (In.)	Recommended Working Pressure (psi)	Min. Bend Radius (In.)	Part No.
½	0.91	500	3.0	8TLCT/WTLCT
¾	1.25	500	4.5	12TLCT/WTLCT
1	1.50	450	6.0	16TLCT/WTLCT
1¼	1.75	320	9.0	20TLCT/WTLCT
1½	2.05	300	11.0	24TLCT/WTLCT
2	2.65	250	13.5	32TLCT/WTLCT
2½	3.20	200	20.0	40TLCT/WTLCT
3	3.70	150	22.0	48TLCT/WTLCT
4	4.70	150	40.0	64TLCT/WTLCT

Convuluted and Rubber Covered Teflon® Hose

How to Order



1" inside diameter (I.D.) hose with male NPT fitting one end and cam-lock coupler ('D') fitting other end. Fitting materials: Type 316 stainless steel.

Part Number Example: 16WCS0316S6-L

16 **WCS** **03** **16** **S6** () – Length

Size I.D. (In 1/16")	Hose Style	Fitting One End Fitting Other End	Fitting Material	Accessory Code
06 (3/8)	WCS	01 = Butt Weld Adapter, Pipe	1st Letter: Ferrule Material	A = Armor Casing
08 (1/2)	BCS	02 = JIC Female	2nd Letter: Fitting Material	C = Casing Strain Cuffs
12 (3/4)	Also	03 = Male Pipe, NPT	3rd Letter: Flange Material	F = Firesleeve
16 (1)	available	06 = Female Pipe, FNPT	C = Steel	H = Hypalon Chafe Sleeve
20 (1 1/4)	with non-	07 = JIC/Female Union	M = Monel	S = External Spring Guard
24 (1 1/2)	metallic	08 = JIC/Male Union	6 = 316 SS	
32 (2)	braids.	10 = Sanitary, Gasket Style	T = Teflon® Encapsulated	
		10U = Sanitary, Step-Up	P = Polypropylene	
		11 = Sanitary, 'Mini' Style	V = PVDF (Kynar)	
		*12 = Flange Retainer, Lap Joint Style	(4) = Flanges Only – 304 SS	
		*16 = Cam-lock Coupler ('D')	(6) = Flanges Only – 316 SS	
		*17 = Cam-lock Adapter ('E')		
		*18 = Cam-lock x Flange Adapter		
		20 = Sanitary, Bevel Seat w/Nut		
		31 = Compression Connector		
		31FN = Compression Connector w/Nuts & Ferrules		
		32 = Compression Adapter		
		32FN = Compression Adapter w/Nuts & Ferrules		
		33 = O-ring Female Adapter		
		38 = JIC Male		
		40 = Sanitary, Bevel Seat, Exposed Thread		
		41 = Butt Weld Adapter, Tube		
		44 = O-ring Male		
		50 = I-Line Sanitary Male		
		51 = I-Line Sanitary Female		
		61 = NPSH Female Swivel		

*Teflon® Encapsulated style also available.

Length Tolerance

1/4" (.250) on assemblies to 24"
 1/2" (.500) on assemblies 25" to 60"
 1% on assemblies over 60"

Large Bore Teflon® Fittings Selection

Pipe Thread (NPT)

Male
Style 03



Male Union
Style 08



Female
Style 06



Female Union
Style 07



Some sizes also available
in plated steel material.

Flanges

Lap Joint Flange
Style 12
Shown with epoxy coated steel flange



Teflon® Encapsulated
Style 12T
Available 'Flare-Thru™' design



JIC

Female Swivel
Style 02



Male
Style 38



Cam and Groove

Female Swivel Type
Style 16
Also available Teflon® Encapsulated
Style 16T and Flare-Thru™ design



Gasket
Style 66T

Teflon® Encapsulated Gasket Silicone
Center completely encased with Teflon®



Male
Style 17T

Stainless steel version Style 17



Cam by Flange Adapter
Teflon Encapsulated
Style 18T

Stainless steel version Style 18



Large Bore Teflon® Fittings Selection — *continued*

Sanitary

'Mini' Sanitary
Style 11



Tri-Clamp®
Style 10

Available Flare-Thru™ design



Bevel Seat with Nut
Style 20



Bevel Seat Male
Style 40



I-Line Male
Style 50

Available Flare-thru™ design

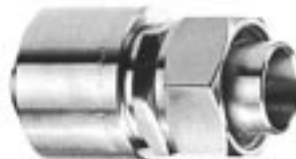


Compression

Compression Tube Adapter
Style 32



Tube Adapter with Nut
and Ferrule(s)
Style 32 FN



Tube Connector
Style 31



Tube Connector with Nut
and Ferrule(s)
Style 31 FN



Butt Weld

Tube Butt Weld
Style 41



Pipe Butt Weld
Style 01



O-ring

Female with Nut
Style 33



Male
Style 44

