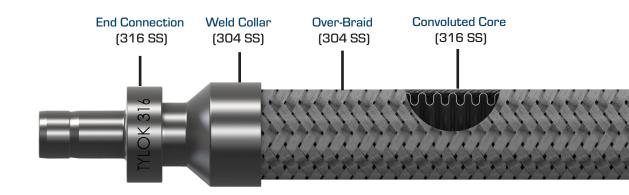


Flexible Metal Hose • PTFE Lined Hose • Multi Purpose Push On Hose

Flexible Metal Hose



Design Features:

- Working pressures from vacuum to 4600 psig (317 bar)
 L Series (standard pressure) & H Series (high pressure)
- Medium-pressure applications where permeation is unacceptable
- End Connections are available in 1/4" to 1" sizes
- Stainless Steel core for corrosion resistance
- Stainless Steel braid contains hose pressure in dynamic applications
- End Connections weld meets ASME Boiler and Pressure Vessel Code Section IX
- Assembly number and pressure rating are etched onto weld collar
- · Hose covers, identification tags, and additional leak testing options are available

Testing

Every Tylok L & H series hose assembly is helium leak tested to a maximum leak rate of $1x10^{-6}$ std cm3/s. See additional test options in the ordering section.

Available Sizes

Adapter Tube	Hose Size	А			imum Diameter	Minimum Outside Diameter		
Size		in	(mm)	in	(mm)	in	(mm)	
1/4	4	1.63	(41.3)	0.16	[4.0]	0.56	(14.3)	
3/8	6	1.84	(46.8)	0.28	(7.1)	0.78	(19.8)	
1/2	8	2.09	(53.2)	0.39	(9.9)	0.93	(23.2)	
3/4	12	2.31	(58.7)	0.63	(15.9)	1.32	(33.5)	
1	16	2.81	(71.4)	0.88	(22.2)	1.63	[41.4]	

Available End Connections

Tube Adapter; CBC-Lok Tube Fitting; CS-Lok Tube Fitting; Male Pipe Fitting; Female Pipe Fitting; Male JIC, 37° Flare; Female Swivel JIC, 37° flare

	Hose Size Designator		minal se Size (mm)	Minimum E Static in	Bend Radius Dynamic (mm)	Temperature Range °F (°C)	Working Pressure at 70°F (21°C) psig (bar)	Burst Pressure at 70°F (21°C) psig (bar)	Hose Weight Ib/ft (kg/m)
	4	0.47	(11.9)	1.0 (25.4)	4.5 (114)	-325 to 850 (-200 to 454)	1800 (124)	7233 (499)	0.11 (0.16)
eries	6	0.71	(18.0)	1.2 (30.5)	5.0 (127)	-325 to 850 (-200 to 454)	1558 (107)	6230 (430)	0.20 (0.30)
<u>Seri</u>	8	0.83	(21.1)	1.5 (38.1)	5.5 (140)	-325 to 850 (-200 to 454)	1186 (82)	4743 (327)	0.22 (0.33)
	12	1.22	(31.0)	2.1 (53.3)	8.0 (203)	-325 to 850 (-200 to 454)	898 (62)	3591 (248)	0.37 (0.55)
	16	1.53	(38.9)	2.7 (68.6)	9.0 (229)	-325 to 850 (-200 to 454)	718 (50)	2872 (198)	0.50 (0.74)
	4	0.52	(13.2)	1.1 (27.9)	5.0 (127)	-325 to 850 (-200 to 454)	4600 (317)	18400 (1268)	0.21 (0.31)
ies	6	0.70	(17.8)	1.4 (35.6)	5.5 (140)	-325 to 850 (-200 to 454)	3800 (162)	15200 (1048)	0.36 (0.54)
Series	8	0.82	(20.8)	1.6 (40.6)	5.7 (145)	-325 to 850 (-200 to 454)	2600 (179)	10400 (717)	0.43 (0.64)
I	12	1.19	(30.2)	2.8 (71.1)	6.5 (165)	-325 to 850 (-200 to 454)	2000 (138)	8000 (552)	0.64 (0.95)
	16	1.39	(35.9)	3.5 (88.9)	7.9 (201)	-325 to 850 (-200 to 454)	1500 (103)	6000 (414)	0.78 (1.16)

Technical Data

Temperature °F (°C)	De-Rating Factor
-325 to 300 (-198 to 149)	1.00
400 (204)	0.93
500 (260)	0.86
600 (316)	0.81
650 (343)	0.79
700 (371)	0.77
750 (399)	0.75
800 (427)	0.74
850 (454)	0.72

Pressure Temperature De-Rating

The working pressure must be de-rated when PTFE-lined hose operates outside of ambient temperatures.

Dynamic Pressure De-Rating

Pulsating or shock pressures, like those encountered with fast-operating valves, can severely damage a hose. If your application experiences pulsating pressures, use a de-rating factor of 0.50. If your application experiences shock pressures, use a de-rating factor of 0.17.

Standard Assemblies

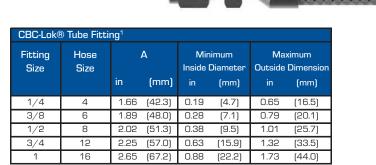
	L Series									
SS-L4A4A4-12	1/4" Hose, 1/4" Adapter Ends, 12" OAL	SS-L6A6A6-12	3/8" Hose, 3/8" Adapter Ends, 12" OAL	SS-L8A8A8-12	1/2" Hose, 1/2" Adapter Ends, 12" OAL					
SS-L4A4A4-18	1/4" Hose, 1/4" Adapter Ends, 18" OAL	SS-L6A6A6-18	3/8" Hose, 3/8" Adapter Ends, 18" OAL	SS-L8A8A8-18	1/2" Hose, 1/2" Adapter Ends, 18" OAL					
SS-L4A4A4-24	1/4" Hose, 1/4" Adapter Ends, 24" OAL	SS-L6A6A6-24	3/8" Hose, 3/8" Adapter Ends, 24" OAL	SS-L8A8A8-24	1/2" Hose, 1/2" Adapter Ends, 24" OAL					

	H Series									
SS-H4A4A4-12	1/4" Hose, 1/4" Adapter Ends, 12" OAL	SS-H6A6A6-12	3/8" Hose, 3/8" Adapter Ends, 12" OAL	SS-H8A8A8-12	1/2" Hose, 1/2" Adapter Ends, 12" OAL					
SS-H4A4A4-18	1/4" Hose, 1/4" Adapter Ends, 18" OAL	SS-H6A6A6-18	3/8" Hose, 3/8" Adapter Ends, 18" OAL	SS-H8A8A8-18	1/2" Hose, 1/2" Adapter Ends, 18" OAL					
SS-H4A4A4-24	1/4" Hose, 1/4" Adapter Ends, 24" OAL	SS-H6A6A6-24	3/8" Hose, 3/8" Adapter Ends, 24" OAL	SS-H8A8A8-24	1/2" Hose, 1/2" Adapter Ends, 24" OAL					





CBC-Lok®	CBC-Lok® Tube Adapter ¹								
Adapter Tube	Hose Size	А		А			imum Diameter		kimum Dimension
Size		in	(mm)	in	(mm)	in	(mm)		
1/4	4	1.63	(41.3)	0.16	(4.0)	0.56	(14.3)		
3/8	6	1.84	(46.8)	0.28	(7.1)	0.78	(19.8)		
1/2	8	2.09	(53.2)	0.39	(9.9)	0.93	(23.6)		
3/4	12	2.31	(58.7)	0.63	(15.9)	1.32	(33.5)		
1	16	2.81	[71.4]	0.88	(22.2)	1.63	[41.4]		





CS-Lok® Tube Fitting ²								
Fitting Size	Hose Size	А			nimum Diameter		ximum Dimension	
		in	(mm)	in	(mm)	in	(mm)	
1/4	4	1.67	(42.4)	0.19	[4.7]	0.65	(16.5)	
3/8	6	1.89	(48.1)	0.28	(7.1)	0.79	(20.1)	
1/2	8	2.02	(51.4)	0.38	(9.5)	1.01	(25.7)	
3/4	12	2.24	(56.9)	0.63	(15.9)	1.32	(33.5)	
1	16	2.64	(67.0)	0.88	(22.2)	1.73	(44.0)	

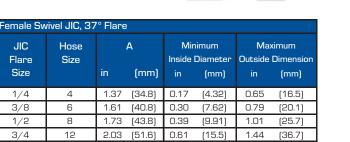
Female Pip	Female Pipe Fitting								
NPT Size	Hose Size	А		А			nimum Diameter		kimum Dimension
		in	(mm)	in	(mm)	in	(mm)		
1/4	4	1.56	(39.7)	0.25	(6.4)	0.87	(22.0)		
3/8	6	1.88	(47.6)	0.38	(9.5)	1.01	(25.7)		
1/2	8	2.03	(51.6)	0.47	(11.9)	1.23	(31.1)		
3/4	12	2.19	(55.5)	0.63	(15.9)	1.51	(38.5)		
1	16	2.47	(62.7)	0.88	(22.2)	1.88	[47.7]		



Male Pipe Fitting NPT Hose A Minimum Maximum Hose Connectors Size **Outside Dimension** Size Inside Diameter (mm) (mm) (mm) (39.7) (16.5) 1.56 0.25 (6.4) 0.65 1/4 4 (43.6) 3/8 6 1.72 0.38 (9.5) 0.79 (20.1) 1/2 8 1.91 (48.4) 0.47 (11.9) 1.01 (25.7) 3/4 12 2.06 (52.4) 0.63 (15.9) 1.32 (33.5) 1 16 2.47 (62.7) 0.88 (22.2) 1.63 [41.4]



Male JIC, 37° Flare								
JIC Flare	Hose Size	А		A Minimum Inside Diamete		Maximum Outside Dimensior		
Size		in	(mm)	in	(mm)	in	(mm)	
1/4	4	1.30	(33.0)	0.17	(4.32)	0.60	(15.2)	
3/8	6	1.40	(35.6)	0.30	(7.62)	0.78	(19.8)	
1/2	8	1.50	(38.1)	0.39	(9.91)	0.93	(23.6)	
3/4	12	1.70	(43.2)	0.61	(15.5)	1.32	(33.5)	
1	16	1.90	(48.3)	0.84	(21.3)	1.63	(41.4)	

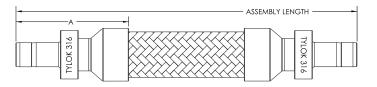


0.84

(21.3)

1.73

[44.0]



(57.3)

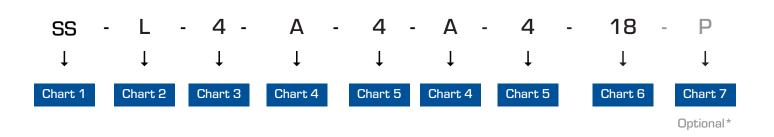
16

1

2.26

Example:

A 1/4" L Series Flexible Metal Hose with 1/4" CBC-Lok Tube Adapter ends, 18" overall length and optional hydrostatic test is designated as follows:



Ρ

С	hart 1- Material
SS	Stainless Steel

Chart 2- Hose Type					
L	L Series Metal Hose				
Н	H Series Metal Hose				

Chart 3- Hose Size							
4	1/4 in						
6	3/8 in						
8	1/2 in						
12	3/4 in						
16	1 in						

	Chart 4- End Connection Type
А	Tube Adapter
D	CBC-Lok [®] Tube Fitting
S	CS-Lok [®] Tube Fitting
М	Male Pipe Threads
F	Female Pipe Threads
AN	Male JIC, 37° Flare
AS	Female Swivel JIC, 37° Flare

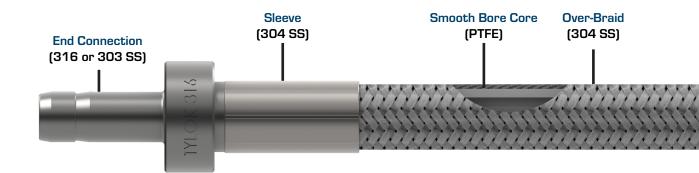
Chart 5- End Connection Size							
4	1/4 in						
6	3/8 in						
8	1/2 in						
12	3/4 in						
16	1 in						

6	5 Inches, and ordered in whole number increments							
		Chart 7- Options						
	-TAG	Tag (customer specified text)						
	Н	Helium Leak Test (1x10^-9 std cm^3/s)						
	N	Nitrogen Pressure Test						

Hydrostatic Test

Chart 6- Total Assembly Length

PTFE-Lined, Stainless Steel Braided Hose



Design Features:

- PTFE core made from fine powder PTFE resin.
- Stainless Steel end connections are available in 1/4" to 1" sizes.
- Custom lengths and optional cover accessories are available.
- Assembly meets or exceeds requirements of SAE 100R14.
- PTFE meets FDA 21CFR part 177.1550 for contact with food, water and beverages.
- Carbon black-filled core tube is available to provide static charge dissipation.

Testing

Tylok PTFE-lined hose assemblies are hydrostatically pressure tested at 1.5 times the working pressure, with a requirement of no visible leakage.

Available Sizes

Adapter Tube	Hose Size		А		imum Diameter	Maximum Outside Dimension		
Size		in	(mm)	in	(mm)	in	(mm)	
1/4	4	1.58	(40.1)	0.15	(3.8)	0.56	(14.2)	
3/8	6	1.74	(44.2)	0.28	(7.0)	0.68	(17.3)	
1/2	8	2.09	(53.1)	0.36	(9.0)	0.81	(20.5)	
3/4	12	2.35	(59.7)	0.59	(15.0)	1.06	(26.9)	
1	16	2.77	(70.4)	0.81	(20.6)	1.37	(34.8)	

Available End Connections

Tube Adapter; CBC-Lok Tube Fitting; CS-Lok Tube Fitting; Male Pipe Fitting; Female Pipe Fitting; Male JIC, 37° Flare; Female Swivel JIC, 37° flare



Technical Data

Hose Size Designator		minal se Size (mm)	Minimum Static in	Bend Radius Dynamic (mm)	Temperature Range °F (°C)	Working Pressure at 70°F (21°C) psig (bar)	Burst Pressure at 70°F (21°C) psig (bar)	Hose Weight Ib/ft (kg/m)
4	1/4	(6.4)	2.0	(50.8)	Continuous:	3000 (206)	12000 (827)	0.07 (0.10)
6	3/8	(9.5)	4.0	(101.6)	-65 to 400 (-53 to 204)	2500 (172)	10000 (689)	0.11 (0.16)
8	1/2	(12.7)	5.2	(132.1)	Intermittent:	2000 (137)	8000 (551)	0.12 (0.18)
12	3/4	(19.0)	7.7	(195.6)	-100 to 500 (-73 to 260)	1200 (82.7)	4800 (331)	0.17 (0.25)
16	1	(25.4)	9.0	(228.6)		1000 (68.9)	4000 (275)	0.27 (0.41)

Temperature °F (°C)	De-Rating Factor
-65 to 100 (-53 to 37)	1.00
200 (93)	0.90
300 (148)	0.83
400 (204)	0.75

Pressure Temperature De-Rating

The working pressure must be de-rated when PTFE-lined hose operates outside of ambient temperatures.

Standard Assemblies

Description	OAL (in.)	Ordering Number	Interchanges With
	6	SS-TH4A4A4-6	SS-4BHT-6
	12	SS-TH4A4A4-12	SS-4BHT-12
	18	SS-TH4A4A4-18	SS-4BHT-18
	24	SS-TH4A4A4-24	SS-4BHT-24
1/4" PTFE Hose, 1/4" CBC-Lok® Tube Adapter Ends	36	SS-TH4A4A4-36	SS-4BHT-36
	48	SS-TH4A4A4-48	SS-4BHT-48
	60	SS-TH4A4A4-60	SS-4BHT-60
	72	SS-TH4A4A4-72	SS-4BHT-72
	120	SS-TH4A4A4-120	SS-4BHT-120
	12	SS-TH6A6A6-12	SS-6BHT-12
	18	SS-TH6A6A6-18	SS-6BHT-18
	24	SS-TH6A6A6-24	SS-6BHT-24
3/8" PTFE Hose, 3/8" CBC-Lok® Tube Adapter Ends	36	SS-TH6A6A6-36	SS-6BHT-36
	48	SS-TH6A6A6-48	SS-6BHT-48
	60	SS-TH6A6A6-60	SS-6BHT-60
	72	SS-TH6A6A6-72	SS-6BHT-72
	12	SS-TH8A8A8-12	SS-8BHT-12
	18	SS-TH8A8A8-18	SS-8BHT-18
	24	SS-TH8A8A8-24	SS-8BHT-24
1/2" PTFE Hose, 1/2" CBC-Lok [®] Tube Adapter Ends	36	SS-TH8A8A8-36	SS-8BHT-36
	48	SS-TH8A8A8-48	SS-8BHT-48
	60	SS-TH8A8A8-60	SS-8BHT-60
	72	SS-TH8A8A8-72	SS-8BHT-72
	120	SS-TH8A8A8-120	SS-8BHT-120
	24	SS-TH12A12A12-24	SS-12BHT-24
3/4" PTFE Hose, 3/4" CBC-Lok® Tube Adapter Ends	36	SS-TH12A12A12-36	SS-12BHT-36
	48	SS-TH12A12A12-48	SS-12BHT-48

Example:

What is the pressure rating of size 6 hose at 200°F (93°C)?

Technical Data gives a working pressure of 3000 psig (206 bar). Pressure Temperature De-Rating gives a de-rating factor of .90. 3000 psig x 0.90 = 2700 psig and 206 bar x 0.90 = 186 bar. The working pressure at 200°F (93°C) is 2700 psig (186 bar).



CBC-Lok® Tube Adapter ¹ (316 SS)											
Adapter Tube	Hose Size	А				Inside Diamete		Maximum Outside Dimensio			
Size		in	(mm)	in	(mm)	in	(mm)				
1/4	4	1.58	(40.1)	0.15	(3.8)	0.55	(14.0)				
3/8	6	1.74	(44.2)	0.27	(6.9)	0.68	[17.3]				
1/2	8	2.09	(53.1)	0.35	(8.9)	0.80	(20.3)				
3/4	12	2.35	(59.7)	0.59	(15.0)	1.05	[26.7]				
1	16	2.77	(70.4)	0.81	(20.6)	1.37	(34.8)				

CBC-Lok® Tube Fitting ¹ (316 SS)										
Fitting Size	Hose Size	A in (mm)		Minimum Inside Diameter in (mm)		Maximum Outside Dimension in (mm)				
1/4	4	1.65	(41.9)	0.15	(3.8)	0.65	(16.5)			
3/8	6	1.81	(46.0)	0.27	(6.9)	0.80	(20.3)			
1/2	8	2.07	(52.6)	0.35	(8.9)	1.02	(25.9)			
3/4	12	2.29	(58.2)	0.59	(15.0)	1.30	(33.0)			

¹CBC-Lok® double ferrule tube ends are completely interchangeable with Swagelok® and Parker A-Lok® tube ends.



CS-Lok® Tube Fitting ² (316 SS)										
Fitting Size	Hose Size	А		Minimum Inside Diameter		Maximum Outside Dimension				
		in	(mm)	in	(mm)	in	(mm)			
1/4	4	1.65	(41.9)	0.15	(3.8)	0.65	(16.5)			
3/8	6	1.81	(46.0)	0.27	(6.9)	0.80	(20.3)			
1/2	8	2.07	(52.6)	0.35	(8.9)	1.02	(25.9)			
3/4	12	2.29	(58.2)	0.59	(15.0)	1.30	(33.0)			

²CS-Lok® single ferrule tube ends are completely interchangeable with Parker CPI® tube ends.



	Male Pipe Fitting (303 SS)											
ors	NPT Size	Hose Size	А		А		А			imum Diameter		kimum Dimension
Connectors			in	(mm)	in	(mm)	in	(mm)				
nr	1/4	4	1.52	(38.6)	0.15	(3.8)	0.65	(16.5)				
ŭ	3/8	6	1.68	(42.7)	0.27	(6.9)	0.79	(20.0)				
	1/2	8	1.98	(50.3)	0.35	(8.9)	1.01	(25.7)				
	3/4	12	2.26	(57.4)	0.59	(15.0)	1.23	(31.2)				
	1	16	2.61	(66.3)	0.81	(20.6)	1.59	(40.4)				

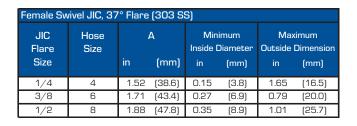
Hose

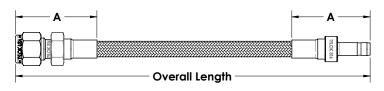


Male JIC, 37° Flare (316 SS)											
JIC Flare Size	Hose Size	A in (mm)		Minimum Inside Diameter in (mm)		Maximum Outside Dimensior in (mm)					
1/4	4	1.56	(39.6)	0.15	(3.8)	0.58	(14.7)				
3/8	6	1.52	(38.6)	0.27	(6.9)	0.72	(18.3)				
1/2	8	1.89	(48.0)	0.35	(8.9)	0.93	[23.6]				



Female Pipe Fitting (316 SS)										
NPT Size	Hose Size	A in (mm)		Minimum Inside Diameter in (mm)		Maximum Outside Dimension in (mm)				
1/4	4	1.56	(39.6)	0.15	(3.8)	0.87	(22.1)			
3/8	6	1.56	(39.6)	0.27	(6.9)	1.02	(25.8)			
1/2	8	2.06	(52.3)	0.35	(8.9)	1.23	(31.3)			
3/4	12	1.99	(50.5)	0.59	(15.0)	1.52	(38.7)			





How to Order

Example:

A 1/4" PTFE-Lined Stainless Steel Braided Hose with 1/4" CBC-Lok Tube Adapter ends, 12" overall length and optional hydrostatic test is designated as follows:

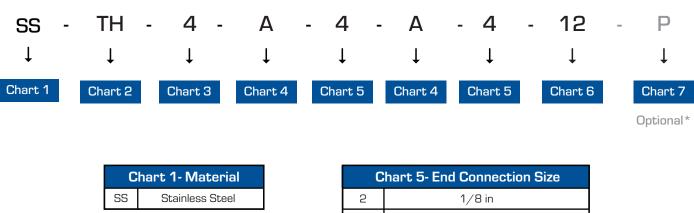


Chart 2- Hose Type						
TH	PTFE Hose					
TC	Carbon Black Filled PTFE Hose					

Chart 3- Hose Size							
4 1/4 in							
6	3/8 in						
8	1/2 in						
12	3/4 in						
16	1 in						

	Chart 4- End Connection Type					
А	Tube Adapter					
D	CBC-Lok® Tube Fitting CS-Lok® Tube Fitting					
S						
Μ	Male Pipe Threads					
F	Female Pipe Threads					
AN	Male JIC, 37° Flare					
AS	Female Swivel JIC, 37° Flare					

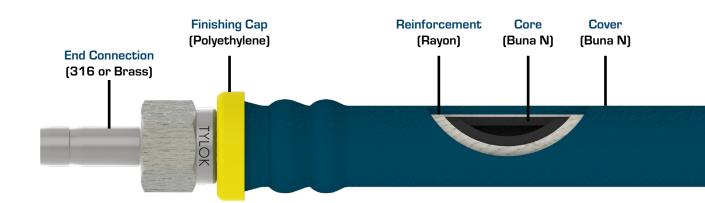
C	Chart 5- End Connection Size
2	1/8 in
4	1/4 in
6	3/8 in
8	1/2 in
12	3/4 in
16	1 in

6	6 Inches, and ordered in whole number increments							
	Chart 7- Options							
	-TAG	Tag (customer specified text)						
	Н	Helium Leak Test (1x10^-9 std cm^3/s)						
ĺ	Ν	Nitrogen Pressure Test						
Ī	Р	Hydrostatic Test						

Chart 6- Total Assembly Length

6 Inches, and ordered in whole number increments

Multi-Purpose Push-On Hose



Hose Connectors

• Sizes from 1/4 to 3/4 in.

Design Features

- Flame-resistant cover meets Part 18 of 30CFR
- Single-braided reinforcement maximizes strength and hose connector retention.
- Stainless Steel and Brass HB Series hose connectors are available $1/4\ to\ 3/4$ inch sizes (sold separately).
- Assembly does not require clamps or specialized tools.
- Hose connectors are reusable.

Available End Connections

Tube Adapter; CBC-Lok Tube Fitting; CS-Lok Tube Fitting; Male Pipe Fitting; Female Pipe Fitting; Union.

Pressure Temperature De-Rating

The working pressure of multipurpose push-on hose does not de-rate when used in its normal operating range: -40 to 200 °F (-40 to 93 °C). It is not recommended that this hose be used outside of this range.

How To Order

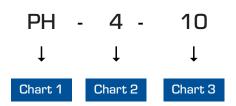


Chart 1- Hose Type						
PH	Push-On Hose					

C	nart 2- Hose Size
4	1/4 in
6	3/8 in
8	1/2 in
12	3/4 in

Chart 3- Hose Length

Feet, and ordered in whole number increments (10' min)

Hose Size Designator	Nominal Hose Size in (mm)		Bend Radius tatic (mm)	Temperature Range °F (°C)	Working Pressure at 70°F (21°C) psig (bar)	Hose Weight Ib/ft (kg/m)		
4	0.50 (12.7)	3.0	(76.2)		400 (27.6)	0.08 (0.12)		
6	0.67 (17.0)	3.0	(76.2)	-40 to 200	400 (27.6)	0.13 (0.19)		
8	0.76 (19.3)	5.0	(127)	(-40 to 93)	400 (27.6)	0.14 (0.21)		
12	1.06 (26.9)	7.0	(178)		400 (27.6)	0.24 (0.36)		

Fitting Size	Hose Size	Ordering Number	Interchanges With	А		В		Minimum Inside Diameter		Maximum Outside Dimension	
in.	in.			in	in (mm)	in	(mm)	in	(mm)	in	(mm)



CBC-Lok® Tube Adapter ¹												
	1/4	1/4	-4-DATHB-4	PB4 -TA4	1.91	(48.5)	1.51	(29.2)	0.15	(3.8)	0.68	(17.3)
	3/8	3/8	-6-DATHB-6	PB6 -TA6	2.00	(50.8)	0.13	(28.7)	0.24	(6.1)	0.87	(22.1)
	1/2	1/2	-8-DATHB-8	PB8 -TA8	2.42	(61.5)	1.37	(34.8)	0.34	[8.7]	0.98	(24.9)
	3/4	3/4	-12-DATHB-12	PB12 -TA12	3.10	(78.7)	1.43	(36.2)	0.57	(14.5)	1.27	(32.3)



CBC-Lok	® Tube Fit	ting ¹									
1/4	1/4	-4-DTHB-4	PB4 -SL4	1.97	(50.0)	1.21	(30.7)	0.15	(3.8)	0.68	[17.3]
3/8	3/8	-6-DTHB-6	PB6 -SL6	2.11	(53.6)	1.24	(31.5)	0.27	(6.9)	0.87	(22.1)
1/2	1/2	-8-DTHB-8	PB8 -SL8	2.47	(62.7)	1.42	(36.1)	0.37	(9.5)	0.98	(24.9)

¹CBC-Lok® double ferrule tube ends are completely interchangeable with Swagelok® and Parker A-Lok® tube ends.



	CS-Lok®	Tube Ada	pter ²									
	1/4	1/4	-4-SATHB-4	-	1.91	(48.5)	1.51	(29.2)	0.15	(3.8)	0.68	[17.3]
	3/8	3/8	-6-SATHB-6	-	2.00	(50.8)	0.13	(28.7)	0.24	(6.1)	0.87	(22.1)
	1/2	1/2	-8-SATHB-8	-	2.42	(61.5)	1.37	(34.8)	0.34	(8.7)	0.98	(24.9)
1	3/4	3/4	-12-SATHB-12	-	3.10	(78.7)	1.43	(36.2)	0.57	(14.5)	1.27	(32.3)



	CS-Lok®	• Tube Fitti	ng²									
1	1/4	1/4	-4-STHB-4	-	1.97	(50.0)	1.21	(30.7)	0.15	(3.8)	0.68	(17.3)
1	3/8	3/8	-6-STHB-6	-	2.11	(53.6)	1.24	(31.5)	0.27	(6.9)	0.87	(22.1)
4	1/2	1/2	-8-STHB-8	-	2.47	(62.7)	1.42	(36.1)	0.37	(9.5)	0.98	(24.9)

 $^2\mbox{CS-Lok}\ensuremath{\textcircled{B}}$ single ferrule tube ends are completely interchangeable with Parker CPI $\ensuremath{\textcircled{B}}$ tube ends.



Male Pip	e Threads	6									
1/4	1/4	-4-1MPHB-4	PB4 -PM4	1.67	(42.7)	0.92	(23.4)	0.15	(3.8)	0.68	[17.3]
3/8	3/8	-6-1MPHB-6	PB6 -PM6	1.80	(45.7)	0.93	(23.9)	0.27	(6.9)	0.87	(22.1)
1/2	1/2	-8-1MPHB-8	PB8 -PM8	2.19	(55.6)	1.14	(29.0)	0.37	(9.5)	0.98	(24.9)
3/4	3/4	-12-1MPHB-12	PB12 -PM12	2.81	(71.4)	1.15	(29.2)	0.61	(15.6)	1.27	(32.3)



Female I	Pipe Threa	ids									
1/4	1/4	-4-1FPHB-4	-	1.53	(38.9)	0.77	(19.6)	0.15	(3.8)	0.87	(22.0)
3/8	3/8	-6-1FPHB-6	-	1.77	(45.0)	0.90	(22.7)	0.27	(6.9)	1.01	(25.7)
1/2	1/2	-8-1FPHB-8	-	2.06	(52.3)	1.02	(25.9)	0.37	(9.5)	1.23	(31.2)



	Union											
	1/4	1/4	-4-1HBU	PB4 -6	2.07	(52.6)	1.31	(33.3)	0.15	(3.8)	0.68	(17.3)
	3/8	3/8	-6-1HBU	PB6 -6	2.25	(57.2)	1.83	(35.1)	0.27	(6.9)	0.87	(22.1)
-	1/2	1/2	-8-1HBU	PB8 -6	2.61	(66.3)	1.56	(39.6)	0.37	(9.5)	0.98	(24.9)
	3/4	3/4	-12-1HBU	PB12 -6	3.83	(97.3)	2.18	(55.4)	0.61	(15.6)	1.27	(32.3)

HC Series End Connections

Design Features

- · Allow for easy installation of soft rubber or plastic tubing
- Stainless Steel and Brass end connection are available in 1/4 to 3/4 inch series
- End Connection are reusable
- Use of hose clamp with HC Series fittings is recommended for secure connection
- For field assembly, subtract dimension B from the desired overall assembly length for each end.

CBC-Lok[®] Tube Adapter¹ 1/4

3/8

1/2

3/4

1/4

3/8

1/2

3/4

Male Pipe Threads

-4-DATHC-4

-6-DATHC-6

-8-DATHC-8

-12-DATHC-12





0.51

0.65

0.80

1.23

(12.9)

(16.6)

(20.3)

(31.3)

(3.8)

(7.0)

(9.7)

(14.7)

Fitting	Size Size	Ordering	Interchanges		А		В		nimum Diameter		ximum Dimension
Size in.	Size in.	Number	With	in	(mm)	in	(mm)	in	(mm)	in	(mm)

(47.0)

(50.5)

(58.9)

(63.3)

1.06

1.10

1.38

1.44

(26.9)

(28.0)

(35.1)

(36.6)

0.15

0.28

0.38

0.58

1.85

1.99

2.32

2.49





CBC-Lok	® Tube Fit	ting ¹									
1/4	1/4	-4-DTHC-4	-4-HC-1-400	1.92	(48.8)	1.13	(28.7)	0.18	(4.6)	0.65	(16.6)
3/8	3/8	-6-DTHC-6	-6-HC-1-600	2.06	(52.3)	1.19	(30.2)	0.28	(7.1)	0.87	(22.1)
1/2	1/2	-8-DTHC-8	-8-HC-1-800	2.24	(56.9)	1.30	(33.0)	0.38	(9.7)	1.01	(25.7)

¹CBC-Lok® double ferrule tube ends are completely interchangeable with Swagelok® and Parker A-Lok® tube ends.

-4-HC-A-401

-6-HC-A-601

-8-HC-A-811

-12-HC-A-1211

	CS-Lok®	Tube Ada	pter²									
	1/4	1/4	-4-SATHC-4	-	1.85	(47.0)	1.06	(26.9)	0.15	(3.8)	0.51	(12.9)
	3/8	3/8	-6-SATHC-6	-	1.99	(50.5)	1.10	(28.0)	0.28	(7.0)	0.55	(16.6)
	1/2	1/2	-8-SATHC-8	-	2.32	(58.9)	1.38	(35.1)	0.38	(9.7)	0.80	(20.3)
-	3/4	3/4	-12-SATHC-12	-	2.49	(63.3)	1.44	(36.6)	0.58	(14.7)	1.23	(31.3)

CS-Lok®	Tube Fitti	ng²									
1/4	1/4	-4-STHC-4	-	1.92	(48.8)	1.13	(28.7)	0.18	[4.6]	0.65	(16.6)
3/8	3/8	-6-STHC-6	-	2.06	(52.3)	1.19	(30.2)	0.28	(7.1)	0.87	(22.1)
1/2	1/2	-8-STHC-8	-	2.24	(56.9)	1.30	(33.0)	0.38	(9.7)	1.01	(25.7)

²CS-Lok® single ferrule tube ends are completely interchangeable with Parker CPI® tube ends.



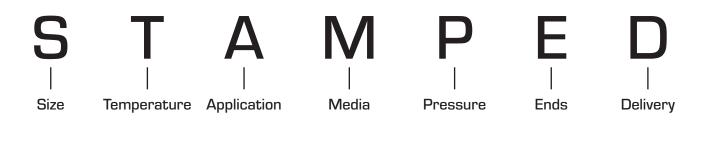


1/4	1/4	-4-1MPHC-4	-4-HC-1-4	1.61	(40.9)	0.82	(20.8)	0.18	(4.6)	0.65	(16.6)
3/8	3/8	-6-1MPHC-6	-6-HC-1-6	1.78	(45.2)	0.89	(22.6)	0.28	(7.1)	0.79	(20.2)
1/2	1/2	-8-1MPHC-8	-8-HC-1-8	1.95	(49.5)	1.06	(26.9)	0.40	(10.1)	1.01	(25.7)
3/4	3/4	-12-1MPHC-12	-12-HC-1-12	1.97	(50.0)	1.08	(27.4)	0.62	(15.7)	1.23	(31.3)

Female F	Pipe Threa	ds									
1/4	1/4	-4-1FPHC-4	-4-HC-7-4	1.69	(42.9)	0.90	(22.9)	0.18	(4.6)	0.87	(22.1)
3/8	3/8	-6-1FPHC-6	-6-HC-7-6	1.81	(46.0)	0.92	(23.4)	0.28	(7.1)	1.01	(25.7)
1/2	1/2	-8-1FPHC-8	-8-HC-7-8	2.08	(52.8)	1.19	(30.2)	0.40	(10.1)	1.23	(31.2)



Consider the following categories below when selecting a hose:



Size

Dash Numbers is a system to indicate hose and fitting size. The dash number, is the measure of a hose's Inner Diameter (I.D.) in sixteenths of an inch.

The hose I.D. should be sized accurately to obtain the proper flow velocity. A flow that's too slow results in sluggish system performance, while a flow that's too high causes excessive pressure drops, system damage, and leaks.

Outer Cover I.D.

Temperature

There are two temperatures you need to identify. One is the ambient temperature, which is the temperature that is outside the hose where it is being used; the other is the media temperature which is the temperature of the media conveyed through the hose.

Very high or low ambient temperatures can have affects on the hose cover and reinforcement materials, resulting in reduced service life.

Application

Before selecting a hose, it is important to consider how the hose assembly will be used. Some applications require a specific type of hose. Industry standards set specific requirements concerning construction type, size, tolerances, burst pressure, and impulse cycles of hoses.

Typical Applications Include:

- Hydraulic Presses & Machinery
- Process Tool Cooling Lines
- Testing Equipment
- High Vibration Dissipation
- Portable Measurement Equipment

End Connections

Consider the style, type, etc. as well when selecting a hose. Clarify any space constraints. Hose assemblies with elbow or union ball joints may help solve these issues.

Delivery

Special delivery requirements or specific quality, testing, and packaging needs should be decided during selection process.

Media

Also consider what the hose will hold, some applications require the use of specialized oils or chemicals. The hose must be compatible with the medium used. Compatibility must cover the inner tube, the cover, hose fittings, and o-rings.

Pressure

With hose pressure, it's important to know both the system working pressure and any surge pressures and spikes. Surge pressures or peak transient pressures in the system must be below the published maximum

working pressure for the hose. A hose assembly is rated at the maximum working pressure of the hose and the fitting component.