

Flexible Hoses

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03



Catalogue No. S-LOK Mar.2024

Metal Flexible Hoses – SHFH Series

Features

- Stainless steel construction.
- All-metal flexible hoses increase corrosion resistance.
- Size range of 1/4 ~ 1/2 inch and various end connections.
- Working pressures from vacuum up to 3600 psig (248 bar).
- 304 stainless steel single braid layer increases hose pressure containment.
- Custom assemblies and length available.



Technical Data

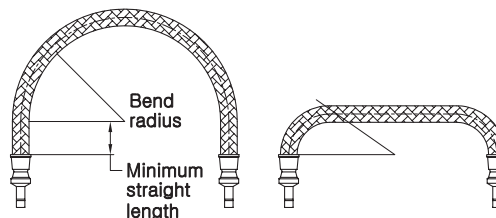
Hose Series & Nominal Hose Size Designator	Nominal Hose Size, inch	Minimum Bending Radius mm (inch)		Working Pressure @ -200~37°C (-325~100°F) psig (bar)	Minimum Burst Pressure @ 20°C (70°F) psig (bar)	Temperature Rating °C (°F)
		Static	Dynamic			
SHFH4	1/4	57.2 (2.25)	254 (10)	3600 (248)	14400 (992)	-200 ~ 454 (-325 ~ 850)
SHFH6	3/8	76.2 (3.00)	305 (12)	2500 (172)	10000 (689)	
SHFH8	1/2	114.3 (4.50)	406 (16)	2200 (151)	8800 (606)	

Pressure – Temperature Ratings

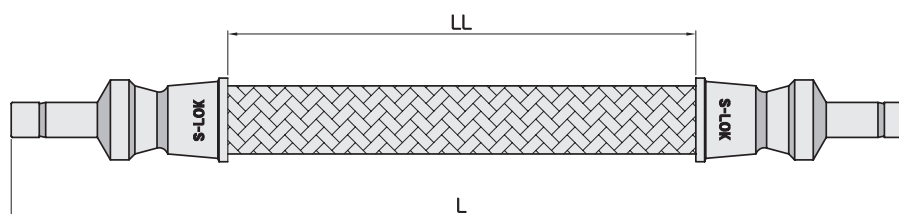
Nominal Hose Size, in	1/4	3/8	1/2
Temperature, °C (°F)	Working Pressure, psig (bar)		
-200 (-325) ~ 37 (100)	3600 (248)	2500 (172)	2200 (151)
93 (200)	3024 (208)	2100 (144)	1848 (126)
148 (300)	2736 (188)	1900 (130)	1672 (114)
204 (400)	2520 (173)	1750 (120)	1540 (105)
260 (500)	2340 (161)	1625 (111)	1430 (98)
315 (600)	2232 (153)	1550 (106)	1364 (93)
371 (700)	2124 (146)	1475 (101)	1298 (89)
426 (800)	2052 (141)	1425 (98)	1254 (86)
454 (850)	2016 (138)	1400 (96)	1232 (84)

Minimum Bend Radius

- Follow the minimum bend radius of the hose.
- If the hose is installed with a small bend radius, the hose may kink and reduce hose life.
- If the hose is bent too close to the hose connection, the hose may rupture or leakage.
- Minimum straight length is twice the outer diameter of the hose.



Standard Length Hose Assemblies



S-LOK Tube Adapter End Connections

Ordering Number	Nominal Hose Size	Tube Adapter Size	Dimensions, mm (inch)			
			Overall Length L	Live Length LL	Min. Inside Diameter	Max. Outside Dimension
SHFH4-TA4-300L-S6	1/4"	1/4"	300 (11.81)	210.6 (8.29)	4.1 (0.16)	19.0 (0.75)
SHFH4-TA4-500L-S6			500 (19.68)	410.6 (16.16)		
SHFH4-TA4-700L-S6			700 (27.56)	610.6 (24.04)		
SHFH4-TA4-1000L-S6			1000 (39.37)	910.6 (35.85)		
SHFH6-TA6-300L-S6	3/8"	3/8"	300 (11.81)	207.6 (8.17)	6.9 (0.27)	23.6 (0.93)
SHFH6-TA6-500L-S6			500 (19.68)	407.6 (16.04)		
SHFH6-TA6-700L-S6			700 (27.56)	607.6 (23.92)		
SHFH6-TA6-1000L-S6			1000 (39.37)	907.6 (35.73)		
SHFH8-TA8-300L-S6	1/2"	1/2"	300 (11.81)	187.2 (7.37)	9.4 (0.37)	26.7 (1.05)
SHFH8-TA8-500L-S6			500 (19.68)	387.2 (15.24)		
SHFH8-TA8-700L-S6			700 (27.56)	587.2 (23.12)		
SHFH8-TA8-1000L-S6			1000 (39.37)	887.2 (34.93)		
SHFH4-TA6M-300L-S6	1/4"	6mm	300 (11.81)	211.2 (8.31)	4.1 (0.16)	19.0 (0.75)
SHFH4-TA6M-500L-S6			500 (19.68)	411.2 (16.19)		
SHFH4-TA6M-700L-S6			700 (27.56)	611.2 (24.06)		
SHFH4-TA6M-1000L-S6			1000 (39.37)	911.2 (35.87)		
SHFH6-TA10M-300L-S6	3/8"	10mm	300 (11.81)	206 (8.11)	7.1 (0.28)	23.5 (0.93)
SHFH6-TA10M-500L-S6			500 (19.68)	406 (15.98)		
SHFH6-TA10M-700L-S6			700 (27.56)	606 (23.86)		
SHFH6-TA10M-1000L-S6			1000 (39.37)	906 (35.67)		
SHFH8-TA12M-300L-S6	1/2"	12mm	300 (11.81)	185.6 (7.31)	8.9 (0.35)	26.7 (1.05)
SHFH8-TA12M-500L-S6			500 (19.68)	385.6 (15.18)		
SHFH8-TA12M-700L-S6			700 (27.56)	585.6 (23.05)		
SHFH8-TA12M-1000L-S6			1000 (39.37)	885.6 (34.86)		

Ordering Information and End Connection Dimensions



Overall Length

- Millimeters or inches, in whole numbers.

See Example.

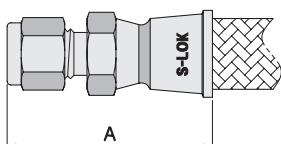
Example – Millimeter : SHFH4-TA4-800L-S6

Example – Inch : SHFH4-M4N-F4N-12-S6

Material – End Connections

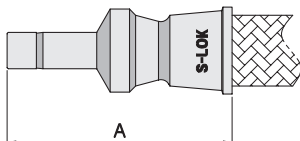
- S6 : Stainless Steel 316

S-LOK Tube Fittings



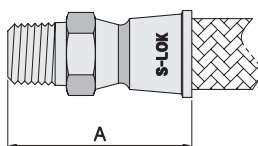
Nominal Hose Size Designator	End Connection Designator	End Connection Size	Dimensions, mm (inch)		
			A	Min. Inside Diameter	Max. Outside Dimension
SHFH4	S4	1/4"	49.3 (1.94)	4.8 (0.19)	24.1 (0.95)
SHFH6	S6	3/8"	51.3 (2.02)	7.1 (0.28)	27.7 (1.09)
SHFH8	S8	1/2"	56.9 (2.24)	10.4 (0.41)	31.2 (1.23)
SHFH4	S6M	6mm	49.3 (1.94)	4.8 (0.19)	20.6 (0.81)
SHFH4	S8M	8mm	50.3 (1.98)	6.4 (0.25)	20.6 (0.81)
SHFH6	S10M	10mm	51.6 (2.03)	7.9 (0.31)	27.9 (1.10)
SHFH8	S12M	12mm	59.7 (2.35)	9.7 (0.38)	31.3 (1.23)

S-LOK Tube Adapters



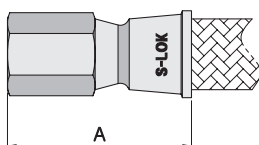
Nominal Hose Size Designator	End Connection Designator	End Connection Size	Dimensions, mm (inch)		
			A	Min. Inside Diameter	Max. Outside Dimension
SHFH4	TA4	1/4"	44.7 (1.76)	4.1 (0.16)	19.0 (0.75)
SHFH6	TA6	3/8"	46.2 (1.82)	6.9 (0.27)	23.6 (0.93)
SHFH8	TA8	1/2"	56.4 (2.22)	9.4 (0.37)	26.7 (1.05)
SHFH4	TA6M	6mm	44.4 (1.75)	4.1 (0.16)	19.0 (0.75)
SHFH6	TA10M	10mm	47.0 (1.85)	7.1 (0.28)	23.5 (0.93)
SHFH8	TA12M	12mm	57.2 (2.25)	8.9 (0.35)	26.7 (1.05)

Male Pipe Threads



Nominal Hose Size Designator	End Connection Designator	End Connection Size	Dimensions, mm (inch)		
			A	Min. Inside Diameter	Max. Outside Dimension
SHFH4	M4N	1/4"	45.7 (1.80)	7.1 (0.28)	23.9 (0.94)
SHFH6	M4N	1/4"	46.0 (1.81)	7.1 (0.28)	27.7 (1.09)
SHFH6	M6N	3/8"	46.0 (1.81)	9.7 (0.38)	27.7 (1.09)
SHFH8	M8N	1/2"	54.6 (2.15)	11.9 (0.47)	31.2 (1.23)

Female Pipe Threads

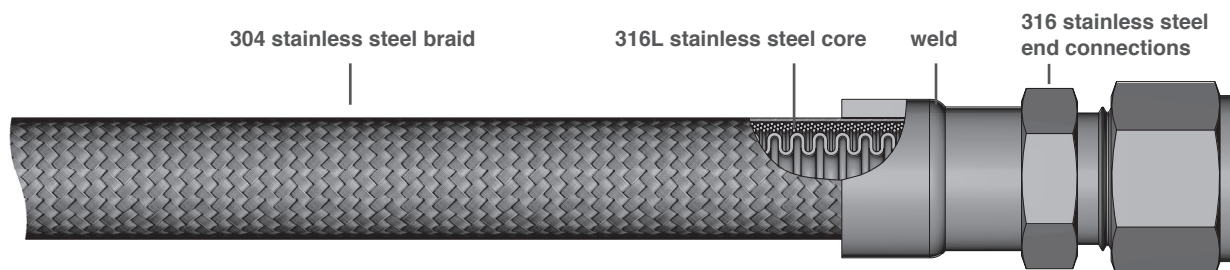


Nominal Hose Size Designator	End Connection Designator	End Connection Size	Dimensions, mm (inch)		
			A	Min. Inside Diameter	Max. Outside Dimension
SHFH4	F4N	1/4"	46.0 (1.81)	7.1 (0.28)	23.9 (0.94)
SHFH6	F6N	3/8"	47.5 (1.87)	9.7 (0.38)	27.7 (1.09)
SHFH8	F8N	1/2"	55.4 (2.18)	11.9 (0.47)	31.2 (1.23)

Metal Flexible Hoses – SFH Series

Features

- Vacuum or general purpose all-metal hose.
- Stainless steel construction.
- Size range of 1/4 ~ 2 inch and various end connections.
- Working pressure up to 1600 psig (110 bar).
- 304 stainless steel single braid layer increases hose pressure containment.
- Custom assemblies and length available.



Technical Data

Hose Series & Nominal Hose Size Designator	Nominal Hose Size, inch	Minimum Bending Radius mm (inch)		Working Pressure @ -200~37°C (-325~100°F) psig (bar)	Minimum Burst Pressure @ 20°C (70°F) psig (bar)	Temperature Rating °C (°F)
		Static	Dynamic			
SFH4	1/4	19.0 (0.75)	110 (4.33)	1600 (110)	6400 (440)	-200 ~ 426 (-325 ~ 800)
SFH6	3/8	22.1 (0.87)	150 (5.91)	1470 (101)	6000 (413)	
SFH8	1/2	26.4 (1.04)	165 (6.50)	1110 (76.4)	4500 (310)	
SFH12	3/4	40.9 (1.61)	225 (8.86)	860 (59.2)	3500 (241)	
SFH16	1	48.0 (1.89)	259 (10.20)	680 (46.8)	2680 (184)	
SFH20	1-1/4	54.9 (2.16)	300 (11.80)	680 (46.8)	2600 (179)	
SFH24	1-1/2	59.2 (2.33)	340 (13.40)	520 (35.8)	2200 (151)	
SFH32	2	78.7 (3.10)	391 (15.40)	450 (31.0)	1800 (124)	

Pressure – Temperature Ratings

Nominal Hose Size, in	1/4	3/8	1/2	3/4	1	1-1/4	1-1/2	2
Temperature, °C (°F)	Working Pressure, psig (bar)							
-200 (-325) ~ 148 (300)	1600 (110)	1470 (101)	1110 (76.4)	860 (59.2)	680 (46.8)	680 (46.8)	520 (35.8)	450 (31.0)
204 (400)	1488 (102)	1367 (94.1)	1032 (71.1)	800 (55.1)	632 (43.5)	632 (43.5)	484 (33.3)	419 (28.8)
260 (500)	1376 (94.8)	1264 (87.1)	955 (65.7)	740 (50.9)	585 (40.2)	585 (40.2)	447 (30.8)	387 (26.6)
315 (600)	1296 (89.2)	1191 (82.0)	899 (61.9)	697 (47.9)	551 (37.9)	551 (37.9)	421 (29.0)	365 (25.1)
371 (700)	1232 (84.8)	1132 (77.9)	855 (58.8)	662 (45.6)	524 (36.0)	524 (36.0)	400 (27.5)	347 (23.8)
398 (750)	1200 (82.6)	1103 (75.9)	833 (57.3)	645 (44.4)	510 (35.1)	510 (35.1)	390 (26.8)	338 (23.2)
426 (800)	1184 (81.5)	1088 (74.9)	821 (56.5)	636 (43.8)	503 (34.6)	503 (34.6)	385 (26.5)	333 (22.9)

Ordering Information and End Connection Dimensions



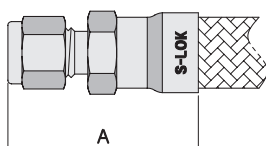
Overall Length

- Inches or centimeters, in whole numbers. See Example.
- Example – Millimeter : SFH4-TA4-800L-S6
- Example – Inch : SFH4-M4N-F4N-12-S6

Material – End Connections

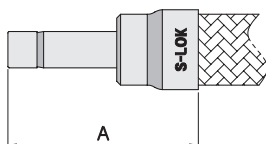
- S6 : Stainless Steel 316

S-LOK Tube Fittings



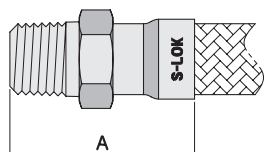
Nominal Hose Size Designator	End Connection Designator	End Connection Size	Dimensions, mm (inch)		
			A	Min. Inside Diameter	Max. Outside Dimension
SFH4	S4	1/4	48.2 (1.90)	4.8 (0.19)	14.7 (0.58)
SFH6	S6	3/8	54.8 (2.16)	7.1 (0.28)	19.0 (0.75)
SFH8	S8	1/2	59.4 (2.34)	10.4 (0.41)	23.8 (0.94)
SFH12	S12	3/4	66.3 (2.61)	16.0 (0.63)	31.2 (1.23)
SFH16	S16	1	76.2 (3.00)	22.4 (0.88)	40.3 (1.59)
SFH20	S20	1-1/4	93.2 (3.67)	27.7 (1.09)	51.3 (2.02)
SFH24	S24	1-1/2	102.9 (4.05)	34.3 (1.35)	62.3 (2.45)
SFH32	S32	2	126.5 (4.98)	46.2 (1.82)	80.7 (3.18)

S-LOK Tube Adapters



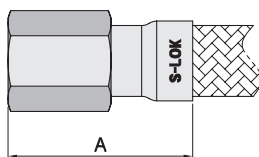
Nominal Hose Size Designator	End Connection Designator	End Connection Size	Dimensions, mm (inch)		
			A	Min. Inside Diameter	Max. Outside Dimension
SFH4	TA4	1/4	41.8 (1.65)	4.6 (0.18)	13.5 (0.53)
SFH6	TA6	3/8	48.5 (1.91)	6.9 (0.27)	19.0 (0.75)
SFH8	TA8	1/2	56.2 (2.21)	9.4 (0.37)	21.2 (0.83)
SFH12	TA12	3/4	60.7 (2.39)	14.7 (0.58)	26.8 (1.06)
SFH16	TA16	1	71.7 (2.82)	20.3 (0.80)	32.0 (1.26)
SFH20	TA20	1-1/4	84.0 (3.31)	25.9 (1.02)	38.0 (1.50)
SFH24	TA24	1-1/2	93.5 (3.68)	31.8 (1.25)	46.0 (1.81)
SFH32	TA32	2	110.4 (4.35)	43.7 (1.72)	59.0 (2.32)

Male Pipe Threads



Nominal Hose Size Designator	End Connection Designator	End Connection Size	Dimensions, mm (inch)		
			A	Min. Inside Diameter	Max. Outside Dimension
SFH4	M4N	1/4	43.2 (1.70)	7.1 (0.28)	16.2 (0.64)
SFH6	M6N	3/8	48.5 (1.90)	9.7 (0.38)	20.8 (0.82)
SFH8	M8N	1/2	58.9 (2.32)	11.9 (0.47)	25.4 (1.00)
SFH12	M12N	3/4	62.2 (2.45)	16.0 (0.63)	32.3 (1.27)
SFH16	M16N	1	77.5 (3.05)	22.4 (0.88)	40.4 (1.59)
SFH20	M20N	1-1/4	79.8 (3.14)	27.7 (1.09)	50.8 (2.00)
SFH24	M24N	1-1/2	85.9 (3.38)	34.0 (1.34)	57.7 (2.27)
SFH32	M32N	2	92.2 (3.63)	46.0 (1.81)	71.6 (2.82)

Female Pipe Threads

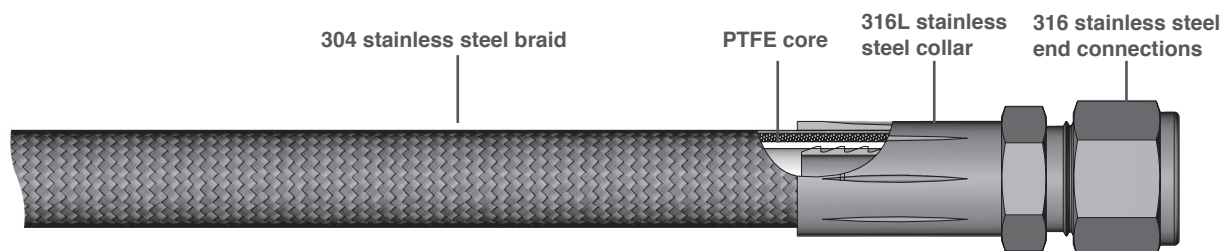


Nominal Hose Size Designator	End Connection Designator	End Connection Size	Dimensions, mm (inch)		
			A	Min. Inside Diameter	Max. Outside Dimension
SFH4	F4N	1/4	45 (1.77)	7.6 (0.30)	21.9 (0.86)
SFH6	F6N	3/8	49 (1.93)	10.7 (0.42)	26.6 (1.05)
SFH8	F8N	1/2	55 (2.17)	14.7 (0.58)	31.2 (1.23)
SFH12	F12N	3/4	63 (2.48)	18.5 (0.73)	38.1 (1.50)
SFH16	F16N	1	70 (2.76)	24.1 (0.95)	46.2 (1.82)
SFH20	F20N	1-1/4	75 (2.95)	31.8 (1.25)	55.4 (2.18)
SFH24	F24N	1-1/2	75 (2.95)	38.1 (1.50)	63.5 (2.50)
SFH32	F32N	2	80 (3.15)	50.8 (2.00)	78.5 (3.09)

PTFE Flexible Hoses – SPFH Series

Features

- PTFE hose with improved permeation-resistance.
- Size range of 1/4, 3/8 inch and various end connections.
- Working pressure up to 3000 psig (206 bar).
- 304 stainless steel single braid layer increases hose pressure containment.
- Custom assemblies and length available.



Technical Data

Hose Series & Nominal Hose Size Designator	Nominal Hose Size , inch	Minimum Bending Radius mm (inch)		Working Pressure @ -17 ~ 37°C (0 ~ 100°F) psig (bar)	Minimum Burst Pressure @ 20°C (70°F) psig (bar)	Temperature Rating °C (°F)
		Static	Dynamic			
SPFH4	1/4	38.1 (1.5)	50.8 (2.0)	3000 (206)	12000 (826)	-53 ~ 230 (-65 ~ 450)
SPFH6	3/8	88.9 (3.5)	127.0 (5.0)	2500 (172)	10000 (689)	

Pressure Temperature Ratings

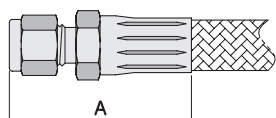
Nominal Hose Size, in	1/4 3/8	
	Temperature , °C (°F)	Working Pressure , psig (bar)
-53 (-65)	2250 (155)	1875 (129)
-17 (0) ~ 37 (100)	3000 (206)	2500 (172)
93 (200)	1740 (119)	1450 (99.9)
148 (300)	1560 (107)	1300 (89.5)
204 (400)	1440 (99.2)	1200 (82.6)
230 (450)	1380 (95.0)	1150 (79.2)

Ordering Information and End Connection Dimensions



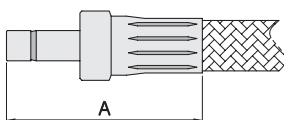
- **Overall Length** - Inches or centimeters. See Example.
Example – Millimeter : SPFH4-TA4-800L-S6
Example – Inch : SPFH4-M4N-F4N-12-S6
- **Material** – S6 : Stainless Steel 316

S-LOK Tube Fittings



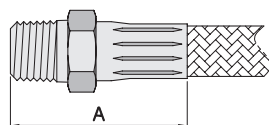
Nominal Hose Size Designator	End Connection Designator	End Connection Size	Dimensions, mm (inch)		
			A	Min. Inside Diameter	Max. Outside Dimension
SPFH4	S4	1/4	25.4 (1.0)	4.1 (0.16)	16.6 (0.65)
SPFH6	S6	3/8	28.0 (1.1)	6.9 (0.27)	22.1 (0.87)

S-LOK Tube Adapters



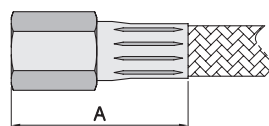
Nominal Hose Size Designator	End Connection Designator	End Connection Size	Dimensions, mm (inch)		
			A	Min. Inside Diameter	Max. Outside Dimension
SPFH4	TA4	1/4	41.7 (1.64)	4.1 (0.16)	13.7 (0.54)
SPFH6	TA6	3/8	46.0 (1.81)	6.9 (0.27)	18.5 (0.73)

Male Pipe Threads



Nominal Hose Size Designator	End Connection Designator	End Connection Size	Dimensions, mm (inch)		
			A	Min. Inside Diameter	Max. Outside Dimension
SPFH4	M4N	1/4	47.8 (1.88)	4.1 (0.16)	20.3 (0.80)
SPFH6	M6N	3/8	50.3 (1.98)	6.9 (0.27)	20.3 (0.80)

Female Pipe Threads



Nominal Hose Size Designator	End Connection Designator	End Connection Size	Dimensions, mm (inch)		
			A	Min. Inside Diameter	Max. Outside Dimension
SPFH4	F4N	1/4	47.8 (1.88)	4.1 (0.16)	22.1 (0.87)
SPFH6	F6N	3/8	51.3 (2.02)	6.9 (0.27)	25.8 (1.02)