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Leak - Proof Flow & Control Solution Partner

The Best Partner
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S-LOK[®] Flexible Hose

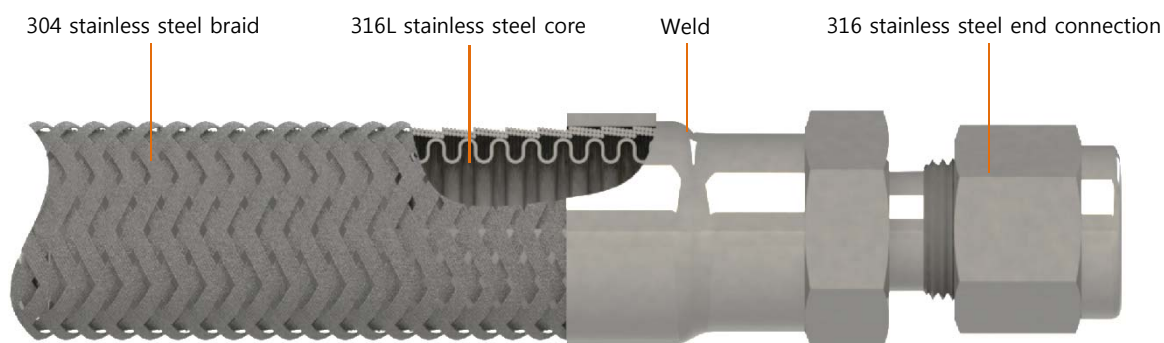
HanSun

한선엔지니어링(주)
HANSUN ENGINEERING CO., LTD.

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 in. (mm)	Minimum Bending Radius in. (mm)		Working Pressure @ -325~300°F (-200~148°C) psig (bar)	Minimum Burst Pressure @ 70°F (20°C) psig (bar)	Temperature Rating °F (°C)
		Static	Dynamic			
SFH4	1/4 (6.35)	0.75 (19.0)	4.33 (110)	1600 (110)	6400 (440)	-325~800 (-200~426)
SFH6	3/8 (9.52)	0.87 (22.1)	5.91 (150)	1470 (101)	6000 (413)	
SFH8	1/2 (12.7)	1.04 (26.4)	6.50 (165)	1110 (76.4)	4500 (310)	
SFH12	3/4 (19.05)	1.61 (40.9)	8.86 (225)	860 (59.2)	3500 (241)	
SFH16	1 (25.4)	1.89 (48.0)	10.2 (259)	680 (46.8)	2680 (184)	
SFH20	1-1/4 (31.75)	2.16 (54.9)	11.8 (300)	680 (46.8)	2600 (179)	
SFH24	1-1/2 (38.1)	2.33 (59.2)	13.4 (340)	520 (35.8)	2200 (151)	
SFH32	2 (50.8)	3.10 (78.7)	15.4 (391)	450 (31.0)	1800 (124)	

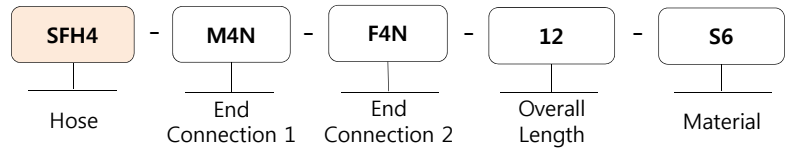
Pressure – Temperature Ratings

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

S-LOK® Flexible Hose

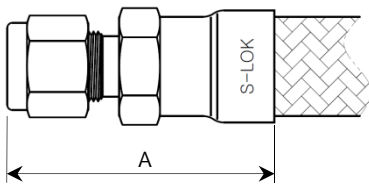
Ordering Information and Dimension

- Hose
 - **SFH** : SFH series metal flexible hose
- End Connections
 - See End Connection Designator column in the table below.
- Overall Length
 - Inches or centimeters, in whole numbers. See Example.
 - Example – Inch : SFH4-M4N-F4N-**12**-S6
 - Example – Centimeter : SFH4-M4N-F4N-**30CM**-S6
- Material – End Connections
 - **S6** : Stainless Steel 316



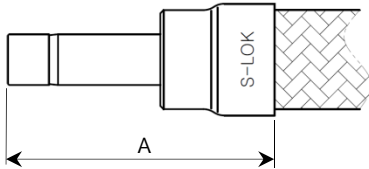
End Connections

S-LOK Tube Fittings



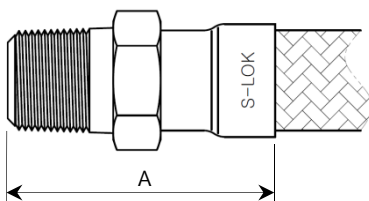
Nominal Hose Size Designator	End Connection Designator	End Connection Size, in.	Dimensions, in. (mm)		
			A	Min. Inside Diameter	Max. Outside Dimension
SFH4	S4	1/4	1.87 (47.5)	0.19 (4.8)	0.94 (23.8)
SFH6	S6	3/8	2.07 (52.6)	0.28 (7.1)	0.80 (20.3)
SFH8	S8	1/2	2.43 (61.7)	0.41 (10.4)	1.23 (31.2)
SFH12	S12	3/4	2.62 (66.6)	0.63 (16.0)	1.32 (33.5)
SFH16	S16	1	3.20 (81.3)	0.88 (22.4)	1.63 (41.4)
SFH20	S20	1-1/4	3.79 (96.3)	1.09 (27.7)	2.03 (51.6)
SFH24	S24	1-1/2	4.25 (108)	1.35 (34.3)	2.47 (65.6)
SFH32	S32	2	5.22 (133)	1.82 (46.2)	3.19 (81.0)

S-LOK Tube Adapters



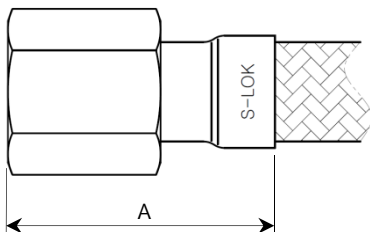
Nominal Hose Size Designator	End Connection Designator	End Connection Size, in.	Dimensions, in. (mm)		
			A	Min. Inside Diameter	Max. Outside Dimension
SFH4	TA4	1/4	1.52 (38.6)	0.18 (4.6)	0.76 (19.2)
SFH6	TA6	3/8	1.81 (46.0)	0.27 (6.9)	0.78 (19.8)
SFH8	TA8	1/2	2.16 (54.9)	0.37 (9.4)	1.05 (26.7)
SFH12	TA2	3/4	2.50 (63.5)	0.58 (14.7)	1.32 (33.5)
SFH16	TA6	1	2.99 (75.9)	0.80 (20.3)	1.63 (41.4)
SFH20	TA20	1-1/4	3.91 (99.3)	1.02 (25.9)	2.18 (55.2)
SFH24	TA24	1-1/2	4.47 (114)	1.25 (31.8)	2.61 (66.3)
SFH32	TA32	2	5.45 (138)	1.72 (43.7)	3.48 (88.4)

Male Pipe Threads



Nominal Hose Size Designator	End Connection Designator	End Connection Size, NPT	Dimensions, in. (mm)		
			A	Min. Inside Diameter	Max. Outside Dimension
SFH4	M4N	1/4	1.70 (43.2)	0.28 (7.1)	0.94 (23.8)
SFH6	M6N	3/8	1.90 (48.5)	0.38 (9.7)	0.80 (20.3)
SFH8	M8N	1/2	2.32 (58.9)	0.47 (11.9)	1.23 (31.2)
SFH12	M12N	3/4	2.45 (62.2)	0.63 (16.0)	1.32 (33.5)
SFH16	M16N	1	3.05 (77.5)	0.88 (22.4)	1.63 (41.4)
SFH20	M20N	1-1/4	3.14 (79.8)	1.09 (27.7)	2.03 (51.6)
SFH24	M24N	1-1/2	3.38 (85.9)	1.34 (34.0)	2.47 (62.6)
SFH32	M32N	2	3.63 (92.2)	1.81 (46.0)	2.76 (70.0)

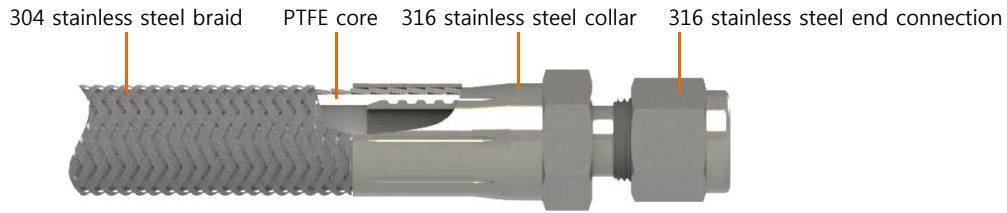
Female Pipe Threads



Nominal Hose Size Designator	End Connection Designator	End Connection Size, NPT	Dimensions, in. (mm)		
			A	Min. Inside Diameter	Max. Outside Dimension
SFH4	F4N	1/4	1.87 (47.5)	0.30 (7.6)	0.94 (23.8)
SFH6	F6N	3/8	2.07 (52.6)	0.42 (10.7)	1.02 (25.8)
SFH8	F8N	1/2	2.43 (61.7)	0.58 (14.7)	1.23 (31.2)
SFH12	F12N	3/4	2.62 (66.6)	0.73 (18.5)	1.52 (38.7)
SFH16	F16N	1	3.20 (81.3)	0.95 (24.1)	1.89 (47.9)
SFH20	F20N	1-1/4	3.79 (96.3)	1.25 (31.8)	2.47 (62.6)
SFH24	F24N	1-1/2	4.25 (108)	1.50 (38.1)	2.76 (70.0)
SFH32	F32N	2	5.22 (133)	2.00 (50.8)	3.48 (88.4)

S-LOK® Flexible Hose

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.

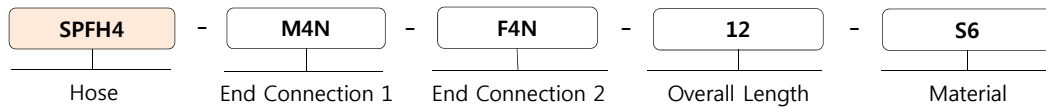
Pressure – Temperature Ratings

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

Technical Data

Hose Series & Nominal Hose Size Designator	Nominal Hose Size in. (mm)	Minimum Bending Radius in. (cm)		Working Pressure @ 70°F (20°C) psig (bar)	Minimum Burst Pressure @ 70°F (20°C) psig (bar)	Temperature Rating °F (°C)
		Static	Dynamic			
SPFH4	1/4 (6.35)	1.5 (3.8)	2.0 (5.1)	3000 (206)	12000 (826)	-65~450 (-53~230)
SPFH6	3/8 (9.52)	3.5 (8.9)	5.0 (12.7)	2500 (172)	10000 (689)	

Ordering Information and Dimension

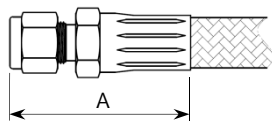


- Hose - **SPFH** : SPFH series PTFE flexible hose
- End Connections - See End Connection Designator column in the table below.

- Overall Length - Inches or centimeters. See Example.
Example – Inch : SPFH4-M4N-F4N-**12**-S6
Example – Centimeter : SPFH4-M4N-F4N-**30CM**-S6
- Material – **S6** : Stainless Steel 316

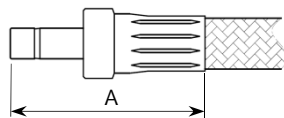
End Connections

S-LOK Tube Fittings



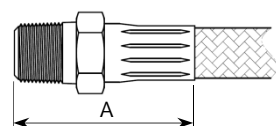
Nominal Hose Size Designator	End Connection Designator	End Connection Size, in.	Dimensions, in. (mm)		
			A	Min. Inside Diameter	Max. Outside Dimension
SPFH4	S4	1/4	1.0 (25.4)	0.16 (4.1)	0.65 (16.6)
SPFH6	S6	3/8	1.1 (28.0)	0.27 (6.9)	0.87 (22.1)

S-LOK Tube Adapters



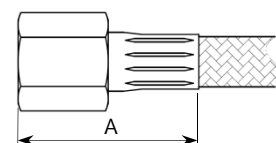
Nominal Hose Size Designator	End Connection Designator	End Connection Size, in.	Dimensions, in. (mm)		
			A	Min. Inside Diameter	Max. Outside Dimension
SPFH4	TA4	1/4	1.64 (41.7)	0.16 (4.1)	0.54 (13.7)
SPFH6	TA6	3/8	1.81 (46.0)	0.27 (6.9)	0.73 (18.5)

Male Pipe Threads



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

Female Pipe Threads



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

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