

## Medium-Pressure - FH Series

Pressure Rating up to 1,600psig (110bar)

### Features

- Designed for general purpose including positive pressure and vacuum service.
- Stainless steel construction of core bellows tube, wire braid, and end connection.
- Single braid layer for pressure containment.
- Custom length available.

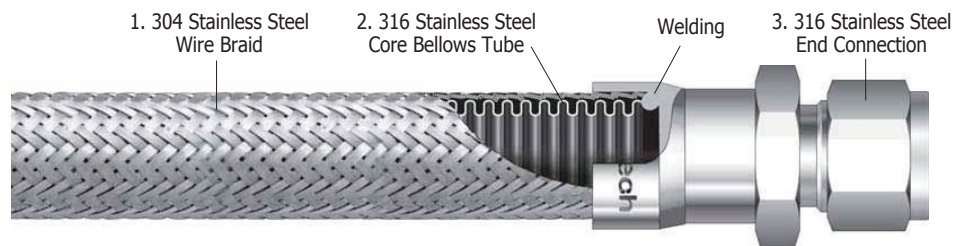


Table 11. Working / Burst Pressure and Temperature

Nominal Hose Size, in. (mm)	FH Series	Temperature Range	Working Pressure psig (bar)	Burst Pressure psig (bar)	Minimum Bending Radius in (mm)	
			@ -325 to 300°F (-200 to 148°C)	@ 70°F (20°C)	Static	Dynamic
1/4 (6.35)	FH4	-325 to 800°F (-200 to 426°C)	1600 (110)	6400 (440)	0.75 (19.0)	4.33 (110)
3/8 (9.52)	FH6		1470 (101)	6000 (413)	0.87 (22.1)	5.91 (150)
1/2 (12.70)	FH8		1110 (76.4)	4500 (310)	1.04 (26.4)	6.50 (165)
3/4 (19.05)	FH12		860 (59.2)	3500 (241)	1.61 (40.9)	8.86 (225)
1 (25.4)	FH16		680 (46.8)	2680 (184)	1.89 (48.0)	10.2 (259)
1 1/4 (31.75)	FH20		680 (46.8)	2600 (179)	2.16 (54.9)	11.8 (300)
1 1/2 (38.10)	FH24		520 (35.8)	2200 (151)	2.33 (59.2)	13.4 (340)
2 (50.80)	FH32		450 (31.0)	1800 (124)	3.10 (78.7)	15.4 (391)

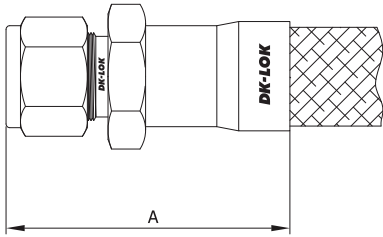
Table 12. Temperature De-rating Factors

To determine an allowable pressure at a specific temperature, multiply the working pressure on table 11 by an applicable factor shown on table 12.

Example : FH4 Series at 500°F(260°C). 1600 psig x 0.86 = 1,376psig

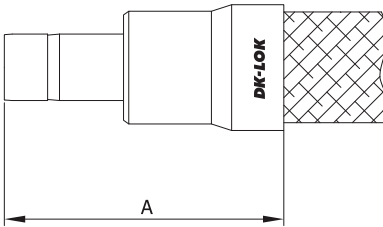
Temperature, °F	-325 to 300	400	500	600	700	750	800
Temperature, °C	-200 to 148	204	260	315	371	398	426
Factors	1.00	0.93	0.86	0.81	0.77	0.75	0.74

**Ordering Information and Table of Dimensions**



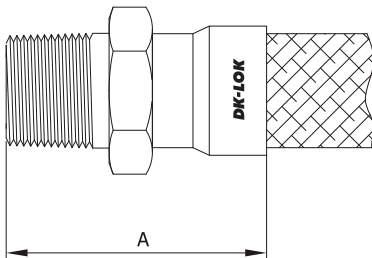
**Table 13. Hose Assembly of DK-LOK Tube Fittings at both Ends.**

Ordering Number	End Connections DK-LOK Tube Fittings	Overall Length in. (cm)	A in. (mm)
FH4-	DL4DL4-12-S	1/4 1/4	12.0 (30.5) 1.87 (47.5)
FH6-	DL6DL6-18-S	3/8 3/8	18.0 (45.7) 2.07 (52.6)
FH8-	DL8DL8-36-S	1/2 1/2	36.0 (91.4) 2.43 (61.7)
FH12-	DL12DL12-48-S	3/4 3/4	48.0 (122) 2.62 (66.6)
FH16-	DL16DL16-12-S	1 1	12.0 (30.5) 3.20 (81.3)
FH20-	DL20DL20-18-S	1 1/4 1 1/4	18.0 (45.7) 3.79 (96.3)
FH24-	DL24DL24-36-S	1 1/2 1 1/2	36.0 (91.4) 4.25 (108)
FH32-	DL32-DL32-48-S	2 2	48.0 (122) 5.22 (133)



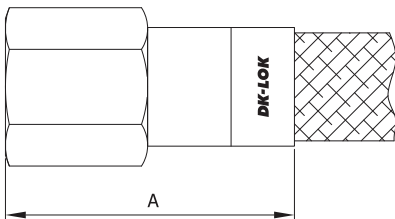
**Table 14. Hose Assembly of DK-LOK Tube Stub Adapter at both Ends.**

Ordering Number	End Connections Tube Adapter	Overall Length in. (cm)	A in. (mm)
FH4-	TA4TA4-12-S	1/4 1/4	12.0 (30.5) 1.52 (38.6)
FH6-	TA6TA6-18-S	3/8 3/8	18.0 (45.7) 1.81 (46.0)
FH8-	TA8TA8-36-S	1/2 1/2	36.0 (91.4) 2.16 (54.9)
FH12-	TA12TA12-48-S	3/4 3/4	48.0 (122) 2.50 (63.5)
FH16-	TA16TA16-12-S	1 1	12.0 (30.5) 2.99 (75.9)
FH20-	TA20TA20-18-S	1 1/4 1 1/4	18.0 (45.7) 3.91 (99.3)
FH24-	TA24TA24-36-S	1 1/2 1 1/2	36.0 (91.4) 4.47 (114)
FH32-	TA32TA32-48-S	2 2	48.0 (122) 5.45 (138)



**Table 15. Hose Assembly of Male Pipe at both Ends.**

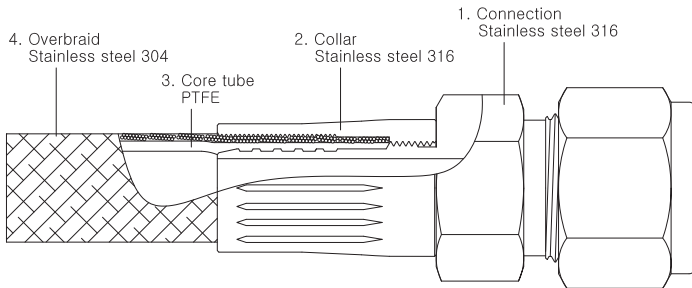
Ordering Number	End Connections Male NPT	Overall Length in. (cm)	A in. (mm)
FH4-	M4NM4N-12-S	1/4 1/4	12.0 (30.5) 1.70 (43.2)
FH6-	M6NM6N-18-S	3/8 3/8	18.0 (45.7) 1.90 (48.5)
FH8-	M8NM8N-36-S	1/2 1/2	36.0 (91.4) 2.32 (58.9)
FH12-	M12NM12N-48-S	3/4 3/4	48.0 (122) 2.45 (62.2)
FH16-	M16NM16N-12-S	1 1	12.0 (30.5) 3.05 (77.5)
FH20-	M20NM20N-18-S	1 1/4 1 1/4	18.0 (45.7) 3.14 (79.8)
FH24-	M24NM24N-36-S	1 1/2 1 1/2	36.0 (91.4) 3.38 (85.9)
FH32-	M32NM32N-48-S	2 2	48.0 (122) 3.63 (92.2)



**Table 16. Hose Assembly of Male Pipe end to Female Pipe end**

Ordering Number	End Connections		Overall Length in. (cm)	A in. (mm)
	Male NPT	Female NPT		
FH4-	M4NF4N-12-S	1/4 1/4	12.0 (30.5)	1.87 (47.5)
FH6-	M6NF6N-18-S	3/8 3/8	18.0 (45.7)	2.07 (52.6)
FH8-	M8NF8N-36-S	1/2 1/2	36.0 (91.4)	2.43 (61.7)
FH12-	M12NF12N-48-S	3/4 3/4	48.0 (122)	2.62 (66.6)
FH16-	M12NF12N-12-S	1 1	12.0 (30.5)	3.20 (81.3)
FH20-	M20NF20N-18-S	1 1/4 1 1/4	18.0 (45.7)	3.79 (96.3)
FH24-	M24NF24N-36-S	1 1/2 1 1/2	36.0 (91.4)	4.25 (108)
FH32-	M32NF32N-48-S	2 2	48.0 (122)	5.22 (133)

## PFH Series PTFE Flexible Metal Hose



### Features

- High pressure application up to 3,000 psig (206 bar)
- PTFE hose material has improve permeation resistant
- Applied with stainless steel 304 wire braid, its improve the internal pressure and protect the wear.
- Variable end connection available

Table 17. Working / Burst Pressure at Temperature

Nominal Hose Size, in. (mm)	PFH Series Designator	Temperature Range	Working Pressure psig (bar) @70°F (20°C)	Burst Pressure Minimum psig (bar) @ 70°F (20°C)	Bending Radius Minimum in. (cm)	
					Static	Dynamic
1/4 (6.35)	PFH4	-65 to 450°F	3000 (206)	1200 (826)	1.5 (3.8)	2.0 (5.1)
3/8 (9.52)	PFH6	(-53 to 230°C)	2500 (172)	1000 (689)	3.5 (8.9)	5.0 (12.7)

Table 18. Pressure-Temperature Ratings

Temperature, °F	-65	0	100	200	300	400	450
Temperature, °C	-53	-17	37	93	148	204	230
Factors	0.75	1	1	0.58	0.52	0.48	0.46

### Ordering Information and Table of Dimensions

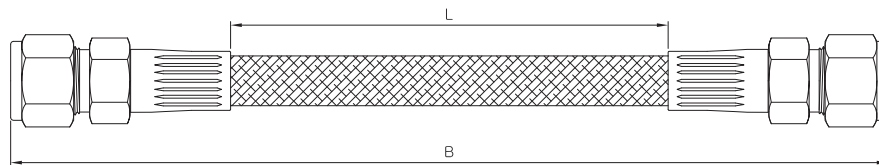


Table 19. Hose Assembly of DK-LOK Tube Fittings at Both Ends

Ordering Number	END Connections		Overall Length B in. (cm)	Live Length L in. (cm)	Hose I.D Minimum in. (cm)	Hex. Flat Max. O.D on the assembly
	DK-Lok Tube Fittings					
PFH4-	DL4DL4-6	1/4"	8.0 (20.3)	5.97 (15.2)	0.16 (4.1)	9/16 (14.28)
	DL4DL4-12		14.0 (35.6)	12.0 (30.5)		
	DL4DL4-18		20.0 (50.8)	18.0 (45.7)		
	DL4DL4-24		26.0 (66.0)	24.0 (61.0)		
	DL4DL4-36		38.0 (96.5)	36.0 (91.4)		
	DL4DL4-48		50.0 (127.0)	48.0 (122.0)		
	DL4DL4-60		62.0 (157.0)	60.0 (152.0)		
	DL4DL4-72		74.0 (188.0)	72.0 (183.0)		
	DL4DL4-120		122.0 (310.0)	120.0 (305.0)		
PFH6-	DL6DL6-12	3/8"	14.0 (35.6)	11.8 (30.0)	0.27 (6.9)	13/16 (20.64)
	DL6DL6-18		20.0 (50.8)	17.8 (45.2)		
	DL6DL6-24		26.0 (66.0)	23.8 (60.5)		
	DL6DL6-36		38.0 (96.5)	35.8 (90.9)		
	DL6DL6-48		50.0 (127.0)	47.8 (121.0)		
	DL6DL6-60		62.0 (157.0)	59.8 (152.0)		
	DL6DL6-72		74.0 (188.0)	71.8 (182.0)		
	DL6DL6-96		98.0 (249.0)	95.8 (243.0)		
	DL6DL6-120		122.0 (310.0)	120.0 (305.0)		

## IDK-LOK® PFH Series PTFE Flexible Metal Hose

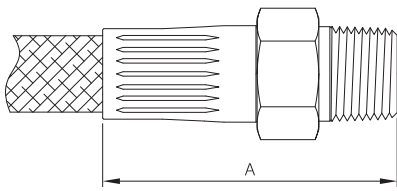


Table 20. Male Pipe Ends

Applicable Hose Series	Male Pipe End Connection				
	Designator	Pipe Size	Length A in. (mm)	Hex. Flat as a max. O.D	I.D Minimum in. (mm)
PFH4	M4N	1/4"	1.88 (47.8)	13/16"	0.16 (4.1)
PFH6	M6N	3/8"	1.98 (50.3)	15/16"	0.27 (6.9)

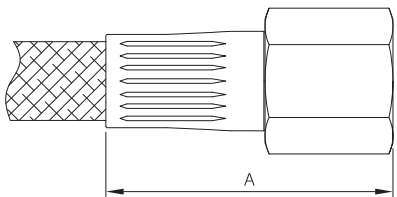


Table 21. Female Pipe Ends

Applicable Hose Series	Female Pipe End Connection				
	Designator	Pipe Size	Length A in. (mm)	Hex. Flat as a max. O.D	I.D Minimum in. (mm)
PFH4	F4N	1/4"	1.88 (47.8)	13/16"	0.16 (4.1)
PFH6	F6N	3/8"	2.02 (51.3)	15/16"	0.27 (6.9)

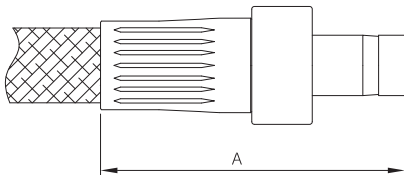


Table 22. Tube Stub Adapter Ends

Applicable Hose Series	Tube Stub Adapter End Connection				
	Designator	Pipe Size	Length A in. (mm)	Hex. Flat as a max. O.D	I.D Minimum in. (mm)
PFH4	TA4	1/4"	1.64 (41.7)	13/16"	0.16 (4.1)
PFH6	TA6	3/8"	1.81 (46.0)	15/16"	0.27 (6.9)

### Ordering Information for MFH & FH Series

Hose Series	End Connection and Overall Length			Material Designator
MFH4- MFH6- MFH8-  FH4- FH6- FH8- FH12- FH16- FH20- FH24- FH32-  PFH4- PFH6-	Standard End Connections and Standard Overall Length	Custom End Connections	Custom Overall Length	-S : SS316
	Select the applicable order number from the hose assembly Table 3 to 5 for MFH Series and Table 13 to 16 for FH Series and Table 19 to 22 for PFH Series.	Select the designators of your hose assembly's both end connections from Table 6 to 10 for MFH Series and Table 13 to 16 for FH Series and Table 19 to 22 PFH Series  Insert them into your order No.  For MFH Series, i.e., MFH4-KS4F4N-12-  For FH Series, i.e., FH4-DL4TA4-12-  For PFH Series, i.e., PFH4-DL4M4N-12-	When order in cm, use the unit of "CM", when order in inch, do not use "inch" on your order No.  Examples: For 100cm overall length, MFH4-DL4DL4-100CM-  For 10 inch overall length, MFH4-DL4DL4-10-	

All dimensions shown in this catalog are for reference only and are subject to change. We reserve the right to change specifications stated in this catalog for our continuing program of product improvement.

### Safe Component Selection

The Selection of component for any applications or system design must be considered to ensure safe performance. Component function, material compatibility, component ratings, proper installation, operation and maintenance remain the sole responsibility of the system designer and the user. DK-Lok accepts no liability for any improper selection, installation, operation or maintenance.

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