

High Pressure
- MFH Series : 1page



Medium Pressure
- FH Series : 5page



PTFE Lined
- PFH Series : 7page

Factory Test, Cleaning and Packaging

Using cleaned and passivated parts, the hoses and end connection are welded. Every hose assembly of MFH, FH & PFH Series is factory tested using nitrogen or clean air @1000 psig (68 bar) at the room temperature, and individually packed in a plastic sealing bag with an external label. The hydrostatic test of 1.1 times the working pressure or helium leak test is optional.

High-Pressure - MFH Series

Pressure Rating up to 3,600psig (248bar)



Materials of Construction

1. Wire braid	ASTM A313 Type316L
2. Core Bellows Tube	ASTM A240 Type 316L
3. End Connection	ASTM A479 or A276 Type 316

Features

- High Pressure Application Up to 3600 psig with 316 Stainless Steel Construction.
- High Temperature Application up to 850°F (454°C).
- Wide Choices of End Connections of DK-Lok Tube Port, DK-Lok Tube Stub Adapter, Swivel 37 degree Female, Male and Female NPT/ISO Tapered thread.
- Products Type Approved by DNV : Certificate No. P-12877

Applications

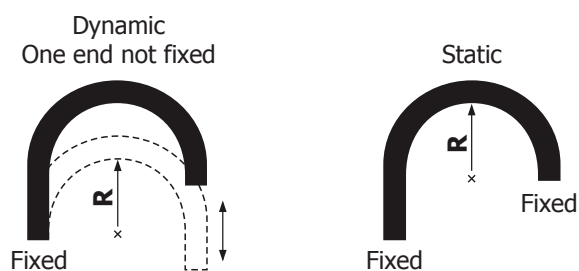
- Air, Gas, Steam, Vacuum and Water line.

IDK-LOK[®] High Pressure - MFH Series

Table 1. Working and Burst Pressure at Temperature

Nominal Hose Size, in. (mm)	MFH Series Designator	Temperature Range	Working Pressure psig (bar)	Burst Pressure Minimum psig (bar)	Bending Radius (1) Minimum in (mm)	
			@ -325 to 100°F (-200 to 37°C)	@ 70°F(20°C)	Static	Dynamic
1/4 (6.35)	MFH4	-325 to 850°F (-200 to 454°C)	3600 (248)	14 400 (992)	2.25 (57.2)	10.0 (254.0)
3/8 (9.52)	MFH6		2500 (172)	10 000 (689)	3.00 (76.2)	12.0 (305.0)
1/2 (12.70)	MFH8		2200 (151)	8 800 (606)	4.50 (114.3)	16.0 (406.4)

(1) Radius measured to inside of bend



Pressure Temperature Ratings

To determine an allowable pressure at a specific temperature, multiply the working pressure on table 1 by an applicable factor shown on table 2. Example: MFH6 Series at 500°F(260°C). 2500 psig x 0.65 = 1,625psig

Table 2. Temperature De-rating Factors

Temperature, °F	-325	100	200	300	400	500	600	700	800	850
Temperature, °C	-200	37	93	148	204	260	315	371	426	454
Factors	1.00	1.00	0.84	0.76	0.70	0.65	0.62	0.59	0.57	0.56

Ordering Information and Table of Dimensions

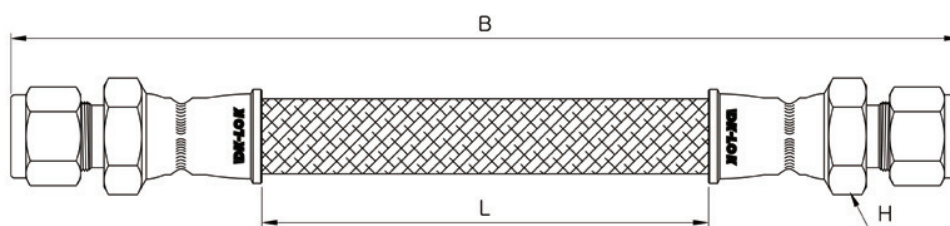


Table 3. Hose Assembly of DK-Lok Tube Fittings at both Ends.

Ordering Number	END Connections DK-Lok Tube Fittings	Overall Length B	Live Length L	Min. I.D.	Hex. Flat H
		in. (cm)	in. (cm)	in. (mm)	in.
MFH4-	DL4DL4-12-S	12.0 (30.5)	8.12 (20.6)	0.19 (4.8)	13/16
	DL4DL4-36-S	36.0 (91.4)	32.1 (81.5)		
	DL4DL4-48-S	48.0 (122)	44.1 (112)		
MFH6-	DL6DL6-18-S	18.0 (45.7)	14.0 (35.6)	0.28 (7.1)	15/16
	DL6DL6-36-S	36.0 (91.4)	32.0 (81.3)		
	DL6DL6-48-S	48.0 (122)	44.1 (112)		
MFH8-	DL8DL8-18-S	18.0 (45.7)	13.5 (34.3)	0.40 (10.2)	1 1/16
	DL8DL8-48-S	48.0 (122)	43.5 (110)		

DK-LOK® High Pressure - MFH Series

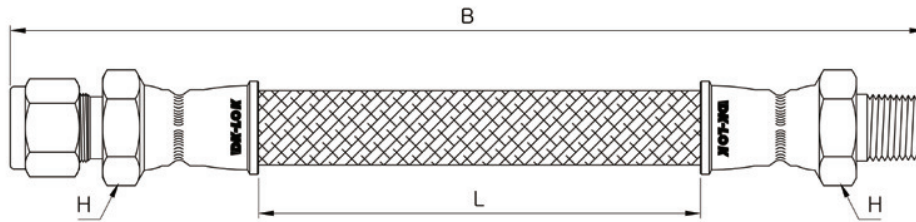


Table 4. Hose Assembly of DK-Lok Tube Fitting end to Male NPT end

Ordering Number	END Connections		Overall Length B in. (cm)	Live Length L in. (cm)	Min. I.D. in. (mm)	Hex. Flat H in.	
	DK-Lok Tube Fittings	NPT Thread					
MFH4-	DL4M4N-12-S	1/4	1/4	12.0 (30.5)	8.26 (21.0)	0.19 (4.8)	13/16
	DL4M4N-36-S			36.0 (91.4)	32.3 (82.0)		
	DL4M4N-48-S			48.0 (122)	44.3 (112.5)		
MFH6-	DL6M6N-18-S	3/8	3/8	18.0 (45.7)	14.2 (36.1)	0.28 (7.1)	15/16
	DL6M6N-36-S			36.0 (91.4)	32.2 (81.8)		
	DL6M6N-48-S			48.0 (122)	44.2 (112.3)		
MFH8-	DL8M8N-18-S	1/2	1/2	18.0 (45.7)	13.6 (34.5)	0.40 (10.2)	1 1/16
	DL8M8N-48-S			48.0 (122)	43.6 (111.0)		

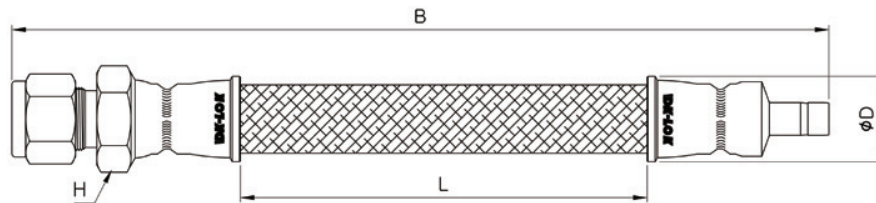


Table 5. Hose Assembly of DK-Lok Tube Fitting end to Tube Stub Adapter end

Ordering Number	END Connections		Overall Length B in. (cm)	Live Length L in. (cm)	Min. I.D. in. (mm)	Hex. Flat H in.	O.D. D in. (mm)	
	DK-Lok Tube Fittings	Tube Stub Adapter						
MFH4-	DL4TA4-12-S	1/4	1/4	12.0 (30.5)	8.26 (21.0)	0.16 (4.1)	13/16	19.0 (0.75)
	DL4TA4-24-S			24.0 (61.0)	20.3 (51.5)			
	DL4TA4-36-S			36.0 (91.4)	32.3 (82.0)			
	DL4TA4-48-S			48.0 (122)	44.3 (112.5)			
MFH8-	DL8TA8-12-S	1/2	1/2	12.0 (30.5)	7.5 (19.0)	0.37 (9.40)	1 1/16	26.7 (1.05)
	DL8TA8-24-S			24.0 (61.0)	19.5 (49.0)			
	DL8TA8-36-S			36.0 (91.4)	31.5 (80.0)			
	DL8TA8-48-S			48.0 (122)	43.5 (110)			

End Connections

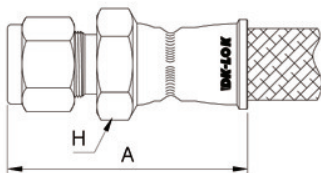


Table 6. DK-Lok Tube Fitting Ends

Applicable Hose Series	Designator	DK-LOK Tube Fittings	Dimensions, in. (mm)		
			Length A	Hex. Flat H	Min. I.D.
MFH4-	DL4	1/4	1.94 (49.3)	13/16 in.	0.19 (4.8)
MFH6-	DL6	3/8	2.02 (51.3)	15/16 in.	0.28 (7.1)
MFH8-	DL8	1/2	2.24 (56.9)	1 1/16 in.	0.41 (10.4)
MFH4-	DM6M	6M	2.45 (62.2)	13/16 in.	0.19 (4.8)
MFH6-	DM8M	8M	2.49 (63.2)	15/16 in.	0.25 (6.4)
MFH6-	DM10M	10M	2.03 (51.6)	15/16 in.	0.31 (7.9)
MFH8-	DM12M	12M	2.24 (56.9)	1 1/16 in.	0.38 (9.7)

End Connections

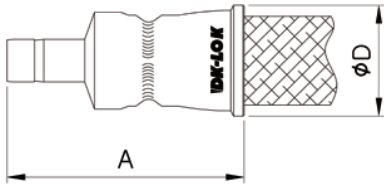


Table 7. Tube Stub Adapter Ends

Applicable Hose Series	Designator	Tube OD Size	Dimensions, in. (mm)		
			Length A	O.D. D	Min. I.D.
Fractional					
MFH4	TA4	1/4	1.76 (44.7)	19.0 (0.75)	0.16 (4.1)
MFH6	TA6	3/8	1.82 (46.2)	23.6 (0.93)	0.27 (6.9)
MFH8	TA8	1/2	2.22 (56.4)	26.7 (1.05)	0.37 (9.4)
Metric					
MFH4	TM6	6M	1.75 (44.4)	19.0 (0.75)	0.16 (4.1)
MFH6	TM10	10M	1.85 (47.0)	23.6 (0.93)	0.28 (7.1)
MFH8	TM12	12M	2.25 (57.2)	26.7 (1.05)	0.35 (8.9)

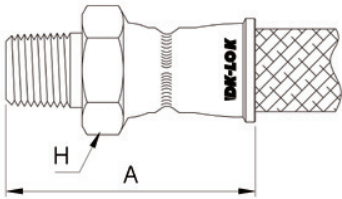


Table 8. Male Pipe Ends

Applicable Hose Series	Designator	Pipe Size	Dimensions, in. (mm)		
			Length A	Hex. Flat H	Min. I.D.
NPT Threads					
MFH4	M4N	1/4	1.80 (45.7)	13/16 in.	0.19 (4.8)
MFH6			1.81 (46.0)	15/16 in.	
MFH6	M6N	3/8	1.81 (46.0)	15/16 in.	0.38 (9.7)
MFH8	M8N	1/2	2.15 (54.5)	1 1/16 in.	0.47 (11.9)
BSP/ISO Threads					
MFH4	M4R	1/4	1.80 (45.7)	13/16 in.	0.28 (7.1)
MFH8	M8R	1/2	2.16 (54.9)	1 1/16 in.	0.47 (11.9)

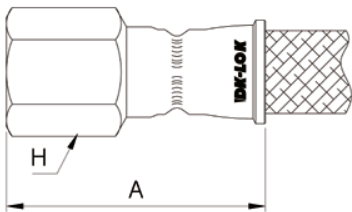


Table 9. Female Pipe Ends

Applicable Hose Series	Designator	NPT Thread Size	Dimensions, in. (mm)		
			Length A	Hex. Flat H	Min. I.D.
MFH4	F4N	1/4	1.81 (46.0)	13/16 in.	0.28 (7.1)
MFH6	F6N	3/8	1.85 (47.0)	15/16 in.	0.38 (9.7)
MFH8	F8N	1/2	2.18 (55.5)	1 1/16 in.	0.47 (11.9)

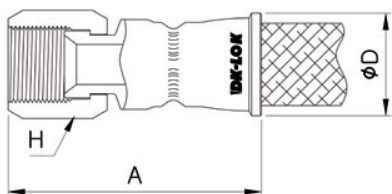


Table 10. SAE J514, 37 degree Swivel Ends

Applicable Hose Series	Designator	Female Size	Dimensions, in. (mm)		
			Length A	O.D. D	Min. I.D.
MFH4	KS4	1/4	1.87 (47.5)	19.0 (0.75)	0.17 (4.3)
MFH6	KS6	3/8	1.97 (50.0)	23.6 (0.93)	0.28 (7.1)
MFH8	KS8	1/2	2.15 (54.6)	26.7 (1.05)	0.42 (10.7)