



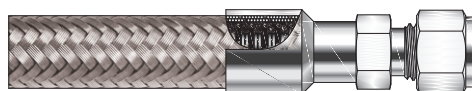
Hose

MF, PH, NH, PB and HPH Series

Contents

Metal Flexible Hose (MF1 Series)

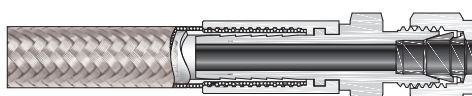
- ❖ Maximum working pressure up to 3100 psig (213 bar)
- ❖ Working temperature from -325°F to 850°F (-200°C to 454°C)
- ❖ Hose sizes from 1/4 to 1 in.
- ❖ 316L core tube and 304 stainless steel overbraid



4-3

PTFE Lined Hose (PH1 Series)

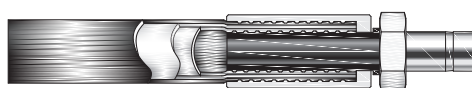
- ❖ Maximum working pressure up to 2800 psig (193 bar)
- ❖ Working temperature from -65°F to 450°F (-53°C to 232°C)
- ❖ Hose sizes from 5/16 to 1 in.
- ❖ PTFE core tube and woven 304 stainless steel wire mesh



4-8

Nylon Hose (NH1 Series)

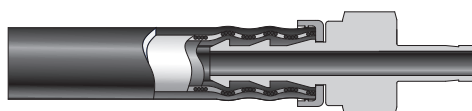
- ❖ Maximum working pressure: 5000 psig (344 bar)
- ❖ Operating temperature range: -40°F to 200°F (-40°C to 93°C)
- ❖ Hose size: 1/4" to 1"
- ❖ Inner Core: Thermoplastic elastomer
- ❖ Interlayer: Internal fiber reinforced layer
- ❖ Outer Cover: Polyurethane



4-11

Push-Lock Hose (PB1 Series)

- ❖ Maximum working pressure up to 300 psig (20.7 bar)
- ❖ Working temperature from -40°F to 190 °F (-40 °C to 88 °C)
- ❖ Hose size: 1/4" to 1"
- ❖ Core tube: highly oil-resistant rubber



4-13

High Pressure Thermoplastic Hose (10/15/20HPH Series)

- ❖ Maximum working pressure up to 20000 psig (1379 bar)
- ❖ Working temperature from -40°F to 158°F (-40°C to 70°C)
- ❖ Core: Thermoplastic Elastomer
- ❖ Interlayer: Double steel wire braids



4-16

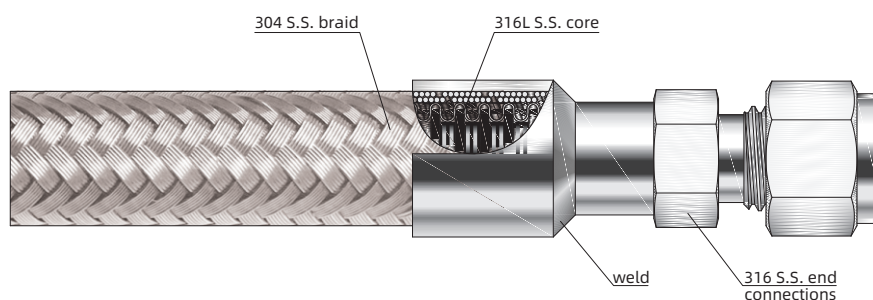
Metal Flexible Hose

MF1 Series



Features

- ❖ Maximum working pressure up to 3100 psig (213 bar)
- ❖ Working temperature from -325°F to 850°F (-200°C to 454°C)
- ❖ 316L core tube and 304 stainless steel overbraid
- ❖ Hose sizes from 1/4 to 1 in.
- ❖ Standard and custom-length assemblies



Hose Technical Data

Hose Size in. (mm)	Inside Diameter in. (mm)	Outside Diameter in. (mm)	Min. Bend Radius		Temperature Range °F(°C)	Working Pressure at 70°F (20°C) psig (bar)	Min. Burst pressure at 70°F (20°C) psig (bar)
			Static in. (mm)	Dynamic in. (mm)			
1/4 (6.4)	0.28 (7.1)	0.53 (13.5)	2.25 (57.2)	10.0 (254.0)	-325 to 850 (-200 to 454)	3100 (213)	12400 (854)
3/8 (9.5)	0.42 (10.6)	0.69 (17.5)	3.00 (76.2)	12.0 (305.0)		2000 (137)	8000 (551)
1/2 (12.7)	0.53 (13.5)	0.85 (21.6)	4.50 (114.0)	16.0 (406.0)		1800 (124)	7200 (496)
3/4 (19.0)	0.80 (20.3)	1.15 (29.1)	6.00 (152.0)	17.0 (432.0)		1500 (103)	6000 (413)
1 (25.4)	1.03 (26.0)	1.45 (36.9)	6.75 (171.0)	20.0 (508.0)		1200 (82.6)	4800 (330)

Pressure vs. Temperature

Hose Size	1/4 (6.4)	3/8 (9.5)	1/2(12.7)	3/4(19.0)	1(25.4)
Temperature, °F(°C)	Working Pressure, psig (bar)				
-325 (-200) to 100 (37)	3100 (213)	2000 (137)	1800 (124)	1500 (103)	1200 (82.6)
200 (93)	2604 (179)	1680 (115)	1512 (104)	1260 (86.8)	1008 (69.4)
300 (148)	2356 (162)	1520 (104)	1368 (94.2)	1140 (78.5)	912 (62.8)
400 (204)	2170 (149)	1400 (96.4)	1260 (86.8)	1050 (72.3)	840 (57.8)
500 (260)	2015 (138)	1300 (89.5)	1170 (80.6)	975 (67.1)	780 (53.7)
600 (315)	1922 (132)	1240 (85.4)	1116 (76.8)	930 (64.0)	744 (51.2)
700 (371)	1829 (126)	1180 (81.3)	1062 (73.1)	885 (60.9)	708 (47.8)
800 (426)	1767 (121)	1140 (78.5)	1026 (70.6)	855 (58.9)	684 (47.1)
850 (454)	1736 (119)	1120 (77.1)	1008 (69.4)	840 (57.8)	672 (46.3)

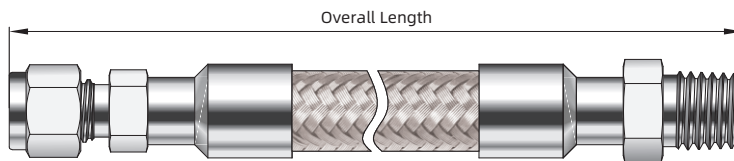
Testing

- ❖ Every Hikelok MF1 series hose assembly is factory tested with pure water at the maximum working pressure.

Cleaning and Packaging

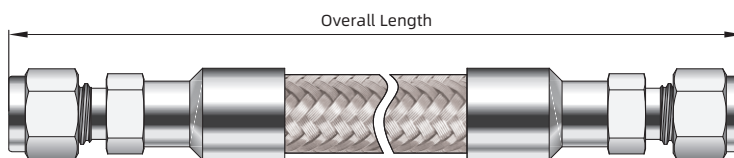
- ❖ Hikelok MF1 series hose components are cleaned in accordance with Hikelok standard cleaning (CP-01) for general industrial procedures.
- ❖ Shorter hoses are packed in cartons with suitable protective material, longer hoses are coiled, bagged and boxed or crated.

Standard Assemblies



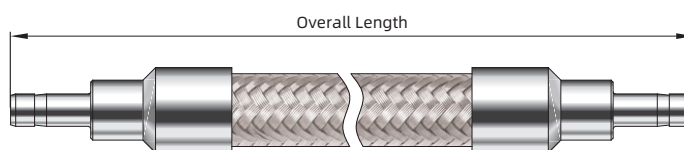
Tube Fitting to Male NPT End

Nominal Hose Size	Tube Fitting Size	NPT Size	Overall Length	Ordering Number in.(mm)	Minimum Inside Diameter	Maximum Outside Dimension	Working Pressure
in.	in.	in.	in.(mm)		in.(mm)	in.(mm)	psig(bar)
1/4	1/4	1/4	12 (305)	MF1-4-F4-NPT4-F12-	0.19 (4.8)	0.94 (23.8)	3100 (213)
3/8	3/8	3/8	18 (457)	MF1-6-F6-NPT6-F18-	0.28 (7.1)	1.09 (27.7)	2000 (137)
1/2	1/2	1/2	18 (457)	MF1-8-F8-NPT8-F18-	0.41 (10.4)	1.23 (31.3)	1800 (124)
3/4	3/4	3/4	18 (457)	MF1-12-F12-NPT12-F18-	0.66 (16.0)	1.74 (44.2)	1500 (103)
1	1	1	24 (610)	MF1-16-F16-NPT16-F24-	0.88 (22.4)	1.82 (46.3)	1200 (82.6)



Tube Fitting End

Nominal Hose Size	Tube Fitting Size	Overall Length	Ordering Number	Minimum Inside Diameter	Maximum Outside Dimension	Working Pressure
in.	in.	in.(mm)		in.(mm)	in.(mm)	psig(bar)
1/4	1/4	12 (305)	MF1-4-F4-F12-	0.19 (4.8)	0.94 (23.8)	3100 (213)
3/8	3/8	18 (457)	MF1-6-F6-F18-	0.28 (7.1)	1.09 (27.7)	2000 (137)
1/2	1/2	18 (457)	MF1-8-F8-F18-	0.41 (10.4)	1.23 (31.3)	1800 (124)
3/4	3/4	18 (457)	MF1-12-F12-F18-	0.66 (16.0)	1.74 (44.2)	1500 (103)
1	1	24 (610)	MF1-16-F16-F24-	0.88 (22.4)	1.82 (46.3)	1200 (82.6)



Tube Adapter End

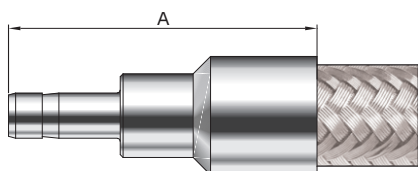
Tube Adapter Size	Tube Fitting Size	Overall Length	Ordering Number	Minimum Inside Diameter	Maximum Outside Dimension	Working Pressure
in.	in.	in.(mm)		in.(mm)	in.(mm)	psig(bar)
1/4	1/4	12 (305)	MF1-4-FT4-F12-	0.18 (4.6)	0.87 (22.1)	3100 (213)
3/8	3/8	18 (457)	MF1-6-FT6-F18-	0.28 (7.1)	1.09 (27.7)	2000 (137)
1/2	1/2	18 (457)	MF1-8-FT8-F18-	0.40 (10.2)	1.23 (31.3)	1800 (124)
3/4	3/4	18 (457)	MF1-12-T12-F18-	0.65 (16.5)	1.74 (44.2)	1500 (103)
1	1	24 (610)	MF1-16-FT16-F24-	0.87 (22.1)	2.03 (54.6)	1200 (82.6)

❖ All dimensions are for reference only and are subject to change. For dimensions not shown above, please contact the authorized representative or Hikelok Group.

❖ Types listed are standard. Other types are available upon request, refer to the ordering information.

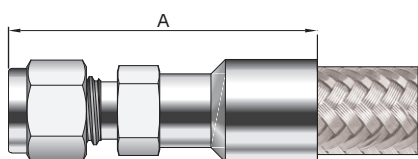
End Connections

Tube Adapters



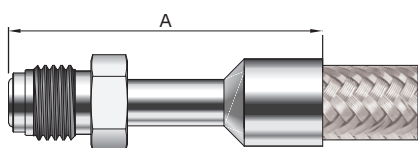
Tube Adapters Size (in.)	Nominal Hose Size (in.)	End Connection Designator	Dimensions in.(mm)			Working Pressure psig(bar)
			A	Minimum Inside Diameter	Maximum Outside Dimension	
1/4	1/4	FT4	1.71(43.5)	0.16(4.1)	0.81(20.6)	3100(213)
3/8	3/8	FT6	2.03(51.6)	0.27(6.9)	1.01(25.6)	2000(137)
1/2	1/2	FT8	2.34(59.4)	0.37(9.4)	1.23(31.3)	1800(124)
3/4	3/4	FT12	2.40(60.9)	0.58(14.7)	1.53(38.8)	1500(103)
1	1	FT16	2.76(70.0)	0.80(20.3)	1.82(46.3)	1200(82.6)
mm	in.	—	mm(in.)			
6	1/4	MT6	43.5(1.71)	4.1(0.16)	20.6(0.81)	3100(213)
10	3/8	MT10	51.6(2.03)	7.1(0.28)	25.6(1.01)	2000(137)
12	1/2	MT12	58.1(2.34)	8.9(0.35)	31.3(1.23)	1800(124)

Tube Fittings



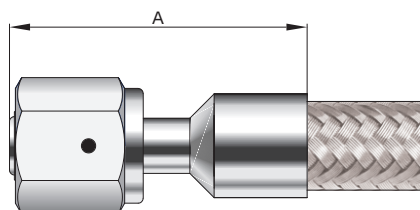
Tube Fitting Size (in.)	Nominal Hose Size (in.)	End Connection Designator	Dimensions in.(mm)			Working Pressure psig(bar)
			A	Minimum Inside Diameter	Maximum Outside Dimension	
1/4	1/4	F4	1.98(50.4)	0.19(4.8)	0.94(23.8)	3100(213)
3/8	3/8	F6	2.41(61.3)	0.28(7.1)	1.09(27.7)	2000(137)
1/2	1/2	F8	2.52(63.9)	0.41(10.4)	1.23(31.3)	1800(124)
3/4	3/4	F12	2.59(65.7)	0.63(16.0)	1.74(44.2)	1500(103)
1	1	F16	2.89(73.4)	0.88(22.4)	1.82(46.3)	1200(82.6)
mm	in.	—	mm(in.)			
6	1/4	M6	1.98(50.3)	4.8(0.19)	20.6(0.81)	3100(213)
8	1/4	M8	1.98(50.3)	6.4(0.25)	20.6(0.81)	3100(213)
10	3/8	M10	2.42(61.6)	7.9(0.31)	31.3(1.23)	2000(137)
12	1/2	M12	2.52(64.0)	9.7(0.38)	38.8(1.53)	1800(124)

Male GFS Metal Gasket Face Seal Fittings Swivel



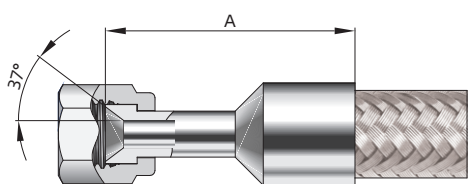
VCR Size (in.)	Nominal Hose Size (in.)	End Connection Designator	Dimensions in.(mm)			Working Pressure psig(bar)
			A	Minimum Inside Diameter	Maximum Outside Dimension	
1/4	1/4	RGFS4	2.21(56.3)	0.18(4.6)	0.81(20.6)	3100(213)
1/2	1/2	RGFS8	2.45(62.4)	0.40(10.2)	1.23(31.3)	1800(124)
3/4	3/4	RGFS12	2.69(68.5)	0.65(16.5)	1.52(38.7)	1500(103)
1	1	RGFS16	2.92(74.3)	0.87(22.1)	1.53(38.8)	1200(82.6)

Female GFS Metal Gasket Face Seal Fittings Swivel



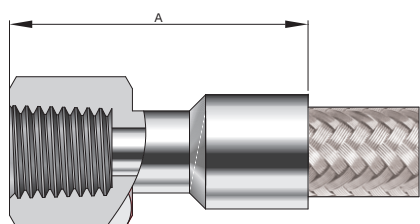
VCR Size (in.)	Nominal Hose Size (in.)	End Connection Designator	Dimensions in.(mm)			Working Pressure psig(bar)
			A	Minimum Inside Diameter	Maximum Outside Dimension	
1/4	1/4	FGFS4	1.89(48.0)	0.18(4.6)	0.87(22.1)	3100(213)
1/2	1/2	FGFS8	1.97(50.0)	0.40(10.2)	1.23(31.3)	1800(124)
3/4	3/4	FGFS12	2.21(56.2)	0.65(16.5)	1.74(44.2)	1500(103)
1	1	FGFS16	2.65(67.3)	0.87(22.1)	2.03(51.6)	1200(82.6)

SAE 37°(JIC) Female Swivel



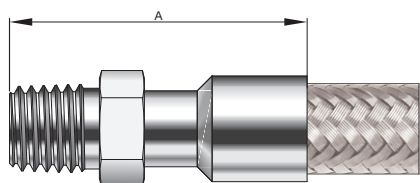
Swivel Size (in.)	Nominal Hose Size (in.)	End Connection Designator	Dimensions in.(mm)			Working Pressure psig(bar)
			A	Minimum Inside Diameter	Maximum Outside Dimension	
1/4	1/4	SAN4	1.61(40.8)	0.17(4.3)	0.81(20.6)	3100(213)
3/8	3/8	SAN6	1.72(43.8)	0.28(7.1)	1.01(25.6)	2000(137)
1/2	1/2	SAN8	1.80(45.8)	0.42(10.7)	1.23(31.3)	1800(124)

Female Pipe Threads, NPT



NPT Size (in.)	Nominal Hose Size (in.)	End Connection Designator	Dimensions in.(mm)			Working Pressure psig(bar)
			A	Minimum Inside Diameter	Maximum Outside Dimension	
1/4	1/4	FNPT4	1.72(43.7)	0.28(7.1)	0.94(23.9)	3100(213)
3/8	3/8	FNPT6	2.01(51.0)	0.38(9.7)	1.09(27.7)	2000(137)
1/2	1/2	FNPT8	2.31(58.8)	0.47(11.9)	1.23(31.3)	1800(124)
3/4	3/4	FNPT12	2.56(65.0)	0.72(18.3)	1.74(44.2)	1500(103)
1	1	FNPT16	2.80(71.2)	0.88(22.4)	1.82(46.3)	1200(82.6)

Male Pipe Threads, NPT



NPT Size (in.)	Nominal Hose Size (in.)	End Connection Designator	Dimensions in.(mm)			Working Pressure psig(bar)
			A	Minimum Inside Diameter	Maximum Outside Dimension	
1/4	1/4	NPT4	1.85(47.0)	0.28(7.1)	0.94(23.9)	3100(213)
3/8	3/8	NPT6	2.21(56.2)	0.38(9.7)	1.09(27.7)	2000(137)
1/2	1/2	NPT8	2.40(61.0)	0.47(11.9)	1.23(31.3)	1800(124)
3/4	3/4	NPT12	2.46(62.6)	0.63(16.0)	1.74(44.2)	1500(103)
1	1	NPT16	2.79(70.9)	0.88(22.4)	1.82(46.3)	1200(82.6)

How to Order

MF1 — 6 — M10 — NPT4 — F36 — 316

Hose Series	Nominal Hose Size	End Connection 1 Type	End Connection 1 Size	End Connection 2 Type and Size	Overall Length	End Connection Material
MF1	4 1/4 in.	FNPT Female NPT	4 1/4 in.	Same as port 1 type and port 1 size	F** ** in M** ** mm	316 316 S.S. 304 304 S.S.
	6 3/8 in.	NPT Male NPT	6 3/8 in. or 6 mm			
	8 1/2 in.	FBT Female BSPT	8 1/2 in. or 8 mm	If port 2 and port 1 are the same, eliminate the port 2 designator		
	12 3/4 in.	MBT Male BSPT	10 5/8 in. or 10 mm			
	16 1 in.	MS Male Metric (for BG)	12 3/4 in. or 12 mm			
		F Fractional Tube Fitting	14 M14 x 1.5			
		M Metric Tube Fitting	16 1 in. or 16 mm			
		FT Fractional Tube Adapter	18 M18 x 1.5			
		MT Metric Tube Adapter	20 M20 x 1.5			
		SAN Swivel Female SAE 37°(JIC)				
		SFMS Female Metric Swivel				
		SFBP Female BSPP Swivel				
	RGFS Rotatable Male GFS Metal					
	FGFS Female GFS Metal					

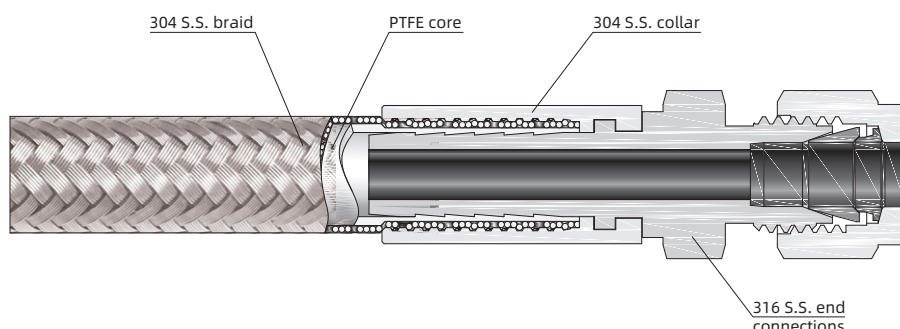
PTFE Lined Hose

PH1 Series



Features

- ❖ Maximum working pressure up to 2800 psig (193 bar)
- ❖ Working temperature from -65°F to 450°F (-53°C to 232°C)
- ❖ PTFE core tube and woven 304 stainless steel wire mesh
- ❖ Hose sizes from 5/16 to 1 in.
- ❖ Standard and custom-length assemblies



Hose Technical Data

Hose Size in. (mm)	Inside Diameter in. (mm)	Outside Diameter in. (mm)	Min. Bend Radius		Temperature Range °C(°F)	Working Pressure at 20°C (70°F) psig (bar)	Min. Burst Pressure at 20°C (70°F) psig (bar)
			Static in. (cm)	Dynamic in. (cm)			
5/16 (7.9)	0.31 (8.0)	0.43 (11.0)	2.9 (7.3)	3.62 (9.2)	-53 to 232 (-65 to 450)	2800 (193)	11200 (772)
3/8 (9.5)	0.38 (9.7)	0.50 (12.7)	4.12 (10.5)	5.15 (13.1)		2500 (172)	10000 (689)
1/2 (12.7)	0.50 (12.7)	0.62 (15.9)	5.72 (14.5)	7.16 (18.2)		2000 (137)	8800 (606)
5/8 (15.8)	0.63 (16.0)	0.75 (19.2)	6.64 (16.9)	8.30 (21.1)		1500 (103)	7200 (496)
1 (25.4)	0.98 (25.0)	1.15 (29.3)	16.97 (43.1)	21.22 (53.9)		600 (41.3)	2400 (165)

Pressure vs. Temperature

Hose Size	5/16 (7.9)	3/8 (9.5)	1/2 (12.7)	5/8 (15.8)	1 (25.4)
Temperature, °F(°C)	Working Pressure, psig (bar)				
-65 (-53)	2100 (144)	1875 (129)	1650 (113)	1350 (93.1)	450 (31.0)
0(-17) to 100 (37)	2800 (193)	2500 (172)	2000 (137)	1500 (103)	600 (41.3)
200 (93)	1624 (112)	1566 (108)	1276 (88.0)	1044 (72.0)	348 (24.0)
300 (148)	1456 (100)	1404 (96.8)	1144 (78.8)	936 (64.5)	312 (21.5)
400 (204)	1344 (92.6)	1296 (89.3)	1056 (72.8)	864 (59.5)	288 (19.8)
450 (230)	1288 (88.8)	1242 (85.6)	1012 (69.7)	828 (57.1)	276 (19.0)

- ❖ Every Hikelok PTFE-lined hose assembly is factory tested with pure water at the maximum working pressure.

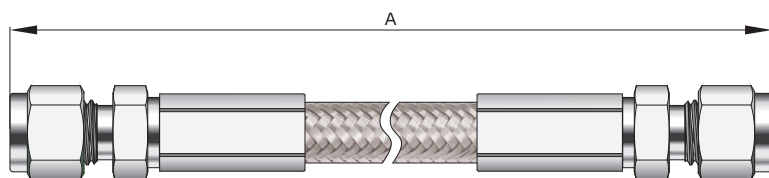
Cautions

- ❖ PTFE is a kind of permeable material, gas, steam and liquid may penetrate, the permeability is affected by many factors.

Cleaning and Packaging

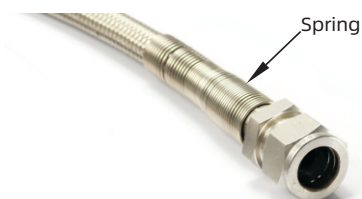
- ❖ Hikelok PTFE-lined hose components are cleaned in accordance with Hikelok standard cleaning (CP-01) for general industrial procedures.
- ❖ Shorter hoses are packed in cartons with suitable protective material, longer hoses are coiled, bagged and boxed or crated.

PTFE-lined Hose Standard Assemblies



Tube Adapters

Tube OD	Nominal Hose Size	Min. ID	Max. OD	A	Ordering Number	Working Pressure
in.		in.(mm)		in. (mm)		psig (bar)
1/4	5/16	0.31 (8.0)	0.43 (11.0)	6.0 (153)	PH1-4-FT4-F6	2800 (193)
				12.0 (305)	PH1-4-FT4-F12	
				18.0 (458)	PH1-4-FT4-F18	
				24.0 (610)	PH1-4-FT4-F24	
				36.0 (915)	PH1-4-FT4-F36	
				48.0 (1220)	PH1-4-FT4-F48	
				60.0 (1530)	PH1-4-FT4-F60	
				72.0 (1829)	PH1-4-FT4-F72	
				120.0 (3048)	PH1-4-FT4-F120	
3/8	3/8	0.38 (9.7)	0.50 (12.7)	12.0 (305)	PH1-6-FT6-F12	2500 (172)
				18.0 (458)	PH1-6-FT6-F18	
				24.0 (610)	PH1-6-FT6-F24	
				36.0 (915)	PH1-6-FT6-F36	
				48.0 (1220)	PH1-6-FT6-F48	
				60.0 (1530)	PH1-6-FT6-F60	
				72.0 (1829)	PH1-6-FT6-F72	
1/2	1/2	0.50 (12.7)	0.62 (15.9)	12.0 (305)	PH1-8-FT8-F12	2000 (137)
				24.0 (610)	PH1-8-FT8-F24	
				36.0 (915)	PH1-8-FT8-F36	
				48.0 (1220)	PH1-8-FT8-F48	
				60.0 (1530)	PH1-8-FT8-F60	
				72.0 (1829)	PH1-8-FT8-F72	
3/4	5/8	0.63 (16.0)	0.75 (19.2)	24.0 (610)	PH1-12-FT12-F24	1500 (103)
				36.0 (915)	PH1-12-FT12-F36	
1	1	0.98 (25.0)	1.15 (29.3)	36.0 (915)	PH1-16-FT16-F36	600 (41.3)
				48.0 (1220)	PH1-16-FT16-F48	
mm	—	mm	mm	—	—	
6	5/16	0.31 (8.0)	0.43 (11.0)	12.0 (305)	PH1-4-MT6-F12	2800 (193)
				24.0 (610)	PH1-4-MT6-F24	
				36.0 (915)	PH1-4-MT6-F36	
12	1/2	0.50 (12.7)	0.62 (15.9)	24.0 (610)	PH1-8-MT12-F24	2200 (151)
				36.0 (915)	PH1-8-MT12-F36	



Protection Spring:

❖ If the total length of the hose is less than or equal to 11.8 in. (300 mm), it is not equipped with a spring, and all other hoses exceeding this size use this spring by default.

How to Order

PH1 — 6 — M10 — NPT4 — F36 — 316

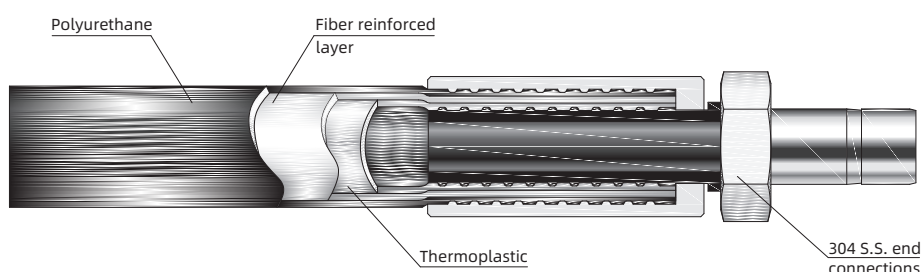
Hose Series	Nominal Hose Size	End Connection 1 Type	End Connection 1 Size	End Connection 2 Type and Size	Overall Length	End Connection Material
PH1	4 5/16 in.	FNPT Female NPT	4 1/4 in.	Same as End 1	F** ** in	316 316 S.S.
	6 3/8 in.	NPT Male NPT	6 3/8 in. or 6 mm			M** ** mm
	8 1/2 in.	FBT Female BSPT	8 1/2 in. or 8 mm			
	12 5/8 in.	MBT Male BSPT	10 5/8 in. or 10 mm			
	16 1 in.	MS Male Metric (for BG)	12 3/4 in. or 12 mm			
		F Fractional Tube Fitting	14 M14 x 1.5			
		M Metric Tube Fitting	16 1 in. or 16 mm			
		FT Fractional Tube Adapter	18 M18 x 1.5			
		MT Metric Tube Adapter	20 M20 x 1.5			
		SAN Swivel Female SAE 37°(JIC)				
		SFMS Female Metric Swivel				
		SFBP Female BSPP Swivel				
		RGFS Rotatable Male GFS Metal				
		FGFS Female GFS Metal				

Nylon Hose

NH1 Series

Features

- ❖ Maximum working pressure: 5000 psig (344 bar)
- ❖ Operating temperature range: - 40°F to 200°F (- 40°C to 93°C)
- ❖ Inner Core : Thermoplastic elastomer
- ❖ Interlayer: Internal fiber reinforced layer
- ❖ Outer Cover: Polyurethane
- ❖ Application: due to the characteristics of oil resistance, wear resistance and smoothness, it can be used for hydraulic oil, water-based compound or water, and also for industrial gas
- ❖ Hose size: 1/4" to 1"



Technical data (SAE 100R7)

Series	Hose Size in. (mm)	ID in. (mm)	OD in. (mm)	Minimum Bending Radius in.(mm)	Temperature Range °F(°C)	Working Pressure psi(bar)	Minimum Burst Pressure psi(bar)	Hose code
NH1-4	1/4(6.4)	0.25(6.4)	0.49(12.4)	1.25(32)	-40 to 200 (-40 to 93)	2750(189)	11000(757)	SAE J517 100R7
NH1-6	3/8(9.6)	0.38(9.6)	0.62(15.7)	2.00(51)		2250(155)	9000(620)	
NH1-8	1/2(12.7)	0.50(12.7)	0.76(19.3)	3.00(76)		2000(137)	8000(551)	

Technical data (SAE 100R8)

Series	Hose Size in. (mm)	ID in. (mm)	OD in. (mm)	Minimum Bending Radius in.(mm)	Temperature Range °F(°C)	Working Pressure psi(bar)	Minimum Burst Pressure psi(bar)	Hose code
NH1-4	1/4(6.4)	0.25(6.4)	0.49(12.4)	2.00(51)	-40 to 200 (-40 to 93)	5000(344)	20000(1378)	SAE J517 100R8
NH1-6	3/8(9.6)	0.38(9.6)	0.62(15.7)	2.50(64)		4000(275)	16000(1102)	
NH1-8	1/2(12.7)	0.50(12.7)	0.76(19.3)	4.00(102)		3500(241)	14000(964)	
NH1-12	3/4(19.0)	0.75(19.0)	1.04(26.4)	5.51(140)		2250(155)	9000(620)	
NH1-16	1(25.4)	1.00(25.4)	1.31(33.3)	7.87(200)		2000(137)	8000(551)	

Note: when the medium is water or air, the operating temperature of all NH1 hoses shall not exceed 158°F(70°C)

How to Order

NH1 — 8 — F8 — FT8 — F36 — R7 — 316

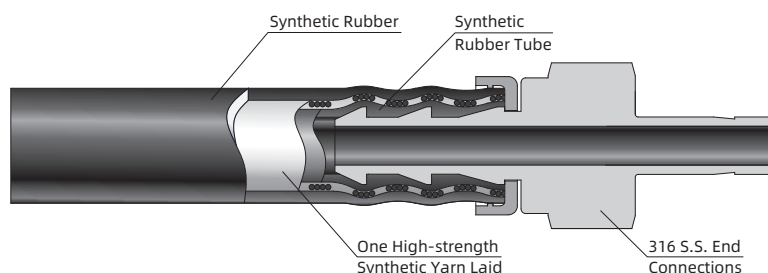
Hose Series	Nominal Hose Size	End Connection 1 Type	End Connection 1 Size	End Connection 2 Type and Size	Overall Length	Hose Color	End Connection Material
NH1	4 1/4 in.	FNPT Female NPT	4 1/4 in.	Same as port 1 type and port 1 size If port 2 and port 1 are the same, eliminate the port 2 designator	F** ** in	R7 100R7	316 316 S.S.
	6 3/8 in.	NPT Male NPT	6 3/8 in. or 6 mm		M** ** mm	R8 100R8	316L 316L S.S.
	8 1/2 in.	MBP Male BSPP (for BG)	8 1/2 in. or 8 mm		304 304 S.S.		
	12 3/4 in.	FBP Female BSPP	10 5/8 in. or 10 mm		304L 304L S.S.		
	16 1 in.	FBT Female BSPT	12 3/4 in. or 12 mm				
		MBT Male BSPT	14 M14 x 1.5				
		MS Male Metric (for BG)	16 1 in. or 16 mm				
		F Fractional Tube Fitting	18 M18 x 1.5				
		M Metric Tube Fitting	20 M20 x 1.5				
		FT Fractional Tube Adapter					
MT Metric Tube Adapter							

Push-Lock Hose

PB1 Series

Features

- ❖ Cover: weatherproof, abrasion withstanding and oil-resistant synthetic rubber
- ❖ Reinforcement: single-braid high-strength synthetic fiber woven for maximum strength and end connection retention
- ❖ Core tube: highly oil-resistant rubber
- ❖ Hose size: 1/4" to 1"
- ❖ Maximum working pressure up to 300 psig (20.7 bar)
- ❖ Working temperature from -40 °F to 200 °F (-40 °C to 93°C)
- ❖ End connection materials: stainless steel
- ❖ End connections reusable
- ❖ Custom-length available



Hose Technical Data

Nominal Hose Size	Inside Diameter	Outside Diameter	Min. Inside Bend Radius	Temperature Range	Working Pressure at -40 to 70°F (-40 to 20°C)	Min. Burst pressure at 70°F (20°C)
in. (mm)	in. (mm)	in. (mm)	in. (mm)	°F(°C)	psig (bar)	psig (bar)
1/4 (6.4)	0.26 (6.6)	0.51 (12.8)	2.50 (63.5)	-40 to 200 (-40 to 93)	300 (20.6)	1200 (82.7)
3/8 (9.5)	0.39 (9.9)	0.67 (17.0)	3.00 (76.2)			
1/2 (12.7)	0.50 (12.7)	0.75 (19.0)	5.00 (127)			
3/4 (19.0)	0.76 (19.3)	1.07 (27.2)	7.00 (178)			
1 (25.4)	1.00 (25.4)	1.34 (34.0)	8.00 (203)			

Pressure vs. Temperature

Nominal Hose Size, in.	1/4, 3/8, 1/2, 3/4	1
Temperature range °F(°C)	Working pressure psi(bar)	
-40 (-40)	300 (20.7)	—
-20 (-28) to 70 (20)	300 (20.7)	300 (20.7)
100 (37)	270 (18.6)	270 (18.6)
150 (65)	180 (12.4)	180 (12.4)
200 (93)	80 (5.5)	80 (5.5)

Testing

- ❖ Every Hikelok Push-Lock Hose assembly is factory tested with pure water at the maximum working pressure.

Cleaning and Packaging

- ❖ Hikelok Push-Lock Hose components are cleaned in accordance with Hikelok standard cleaning (CP-01) for general industrial procedures.
- ❖ Shorter hoses are packed in cartons with suitable protective material, longer hoses are coiled, bagged and boxed or crated.

Cautions

- ❖ Do not reuse hose.

Ordering Information and Dimensions

- ❖ PB Series hose can be sold separately.
- ❖ Ordering information: Ordering Number- Color - F(M)+length
- ❖ For example: **PB1-4-B-M500**
PB1-4-B-F19.7
- ❖ Unit: F (in.), M (mm)

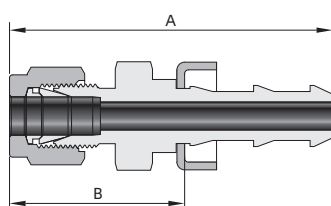
Hose Size	Ordering Number
1/4	PB1-4
3/8	PB1-6
1/2	PB1-8
3/4	PB1-12
1	PB1-16

Hose Color	Designator
Black	-B
Blue	-J
Gray	-W
Green	-G
Red	-R
Yellow	-Y

❖ Note: default color is black

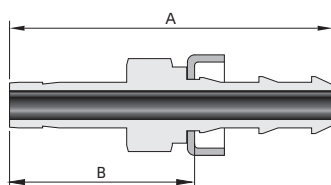
Push-Lock Hose End Connections

Tube Fittings



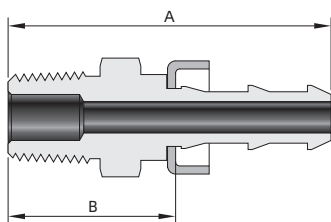
Nominal Hose Size	Tube Fitting Size	Basic Ordering Number	Dimensions, in.(mm)			
			A	B	Minimum Inside Diameter	Maximum Outside Diameter
in.	in.					
1/4	1/4	F4-PB-F4-	1.97 (50.0)	1.21 (30.7)	0.16 (4.1)	0.67 (17.0)
3/8	3/8	F6-PB-F6-	2.11 (53.6)	1.24 (31.5)	0.27 (6.9)	0.87 (22.1)
1/2	1/2	F8-PB-F8-	2.47 (62.7)	1.42 (36.1)	0.37 (9.5)	1.02 (25.8)

Tube Adapters



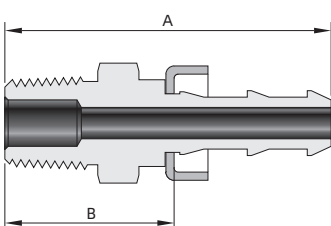
Nominal Hose Size	Tube Adapter Size	Basic Ordering Number	Dimensions, in.(mm)			
			A	B	Minimum Inside Diameter	Maximum Outside Diameter
in.	in.					
1/4	1/4	F4-PB-FT4-	1.93 (49.0)	1.17 (29.7)	0.15 (3.8)	0.67 (17.0)
3/8	3/8	F6-PB-FT6-	2.03 (51.6)	1.16 (29.5)	0.24 (6.1)	0.83 (21.1)
1/2	1/2	F8-PB-FT8-	2.47 (62.7)	1.42 (36.1)	0.34 (8.7)	0.98 (24.9)
3/4	3/4	F12-PB-FT12-	3.14 (79.8)	1.48 (37.6)	0.57 (14.5)	1.23 (31.3)
1	1	F16-PB-FT16-	4.13 (105.0)	1.90 (48.3)	0.79 (20.1)	1.58 (40.1)
in.	mm		mm(in.)			
1/4	6	F4-PB-MT6-	49.0 (1.93)	29.7 (1.17)	3.8 (0.15)	17.0 (0.67)
1/4	8	F4-PB-MT8-	48.8 (1.92)	29.5 (1.16)	4.1 (0.16)	17.0 (0.67)
3/8	8	F6-PB-MT8-	52.1 (2.05)	30.0 (1.18)	5.6 (0.22)	21.1 (0.83)
3/8	10	F6-PB-MT10-	51.6 (2.03)	29.5 (1.16)	6.9 (0.27)	21.1 (0.83)
1/2	12	F8-PB-MT12-	62.7 (2.47)	36.1 (1.42)	8.1 (0.32)	24.9 (0.98)
3/4	18	F12-PB-MT18-	79.8 (3.14)	37.3 (1.47)	8.6 (0.34)	31.3 (1.23)
1	25	F16-PB-MT25-	105.0 (4.13)	48.3 (1.90)	19.8 (0.78)	40.1 (1.58)

Male NPT



Nominal Hose Size	NPT Size	Basic Ordering Number	Dimensions, in.(mm)			
			A	B	Minimum Inside Diameter	Maximum Outside Diameter
1/4	1/4	F4-PB-NPT4-	1.68 (42.7)	0.92 (23.4)	0.16 (4.1)	0.67 (17.0)
3/8	1/4	F6-PB-NPT4-	1.80 (45.7)	0.93 (23.6)	0.27 (6.9)	0.83 (21.1)
3/8	3/8	F6-PB-NPT6-	1.80 (45.7)	0.93 (23.6)	0.27 (6.9)	0.83 (21.1)
1/2	1/2	F8-PB-NPT8-	2.19 (55.6)	1.14 (29.0)	0.37 (9.5)	1.02 (25.9)
3/4	3/4	F12-PB-NPT12-	2.81 (71.4)	1.14 (29.0)	0.61 (15.6)	1.31 (33.3)
1	1	F16-PB-NPT16-	3.78 (96.0)	1.55 (39.4)	0.79 (20.1)	1.58 (40.1)

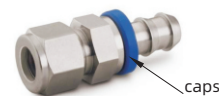
Male BSPT



Nominal Hose Size	BSPT Size	Basic Ordering Number	Dimensions, in.(mm)			
			A	B	Minimum Inside Diameter	Maximum Outside Diameter
1/4	1/4	F4-PB-MBT4-	1.68 (42.7)	0.92 (23.4)	0.16 (4.1)	0.67 (17.0)
3/8	1/4	F6-PB-MBT4-	1.80 (45.7)	0.93 (23.6)	0.27 (6.9)	0.83 (21.1)
3/8	3/8	F6-PB-MBT6-	1.80 (45.7)	0.93 (23.6)	0.27 (6.9)	0.83 (21.1)
1/2	1/2	F8-PB-MBT8-	2.19 (55.6)	1.14 (29.0)	0.37 (9.5)	1.02 (25.9)
3/4	3/4	F12-PB-MBT12-	2.81 (71.4)	1.14 (29.0)	0.61 (15.6)	1.31 (33.3)
1	1	F16-PB-MBT16-	3.78 (96.0)	1.55 (39.4)	0.79 (20.1)	1.58 (40.1)

Protective Cap:

❖ Note: all 1" fitting are not equipped with protective caps



How to Order

PB1 — 4 — F4 — NPT4 — M500 — J — 316

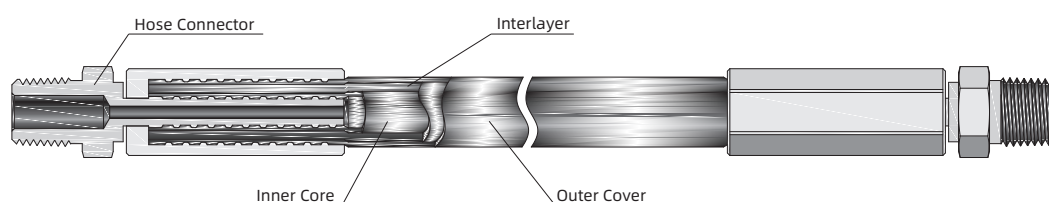
Hose Series	Nominal Hose Size	End Connection 1 Type	End Connection 1 Size	End Connection 2 Type and Size	Overall Length	Hose Color	End Connection Material
PB1	4 1/4 in.	FNPT Female NPT	4 1/4 in.	Same as port 1 type and port 1 size	F** ** in	Black	316 316 S.S.
	6 3/8 in.	NPT Male NPT	6 3/8 in. or 6 mm		M** ** mm	J Blue	304 304 S.S.
	8 1/2 in.	FBT Female BSPT	8 1/2 in. or 8 mm	If port 2 and port 1 are the same, eliminate the port 2 designator		R Red	
	12 3/4 in.	MBT Male BSPT	10 5/8 in. or 10 mm				
	16 1 in.	MS Male Metric (for BG)	12 3/4 in. or 12 mm				
		F Fractional Tube Fitting	14 M14 x 1.5				
	M Metric Tube Fitting	16 1 in. or 16 mm					
	FT Fractional Tube Adapter	18 M18 x 1.5					
	MT Metric Tube Adapter	20 M20 x 1.5					
	SAN Swivel Female SAE 37°(JIC)						
	SFMS Female Metric Swivel						
	SFBP Female BSPP Swivel						
	RGFS Rotatable Male GFS Metal						
	FGFS Female GFS Metal						
	SF24C Swivel Female SAE 24°C Cone Connection						
	24C 24°C Cone Connection						

High Pressure Thermoplastic Hose

HPH Series

Features

- ❖ Maximum working pressure up to 10000 psig (690 bar)
- ❖ Working temperature from -40°F to 158°F (-40°C to 70°C)
- ❖ Core: Thermoplastic Elastomer
- ❖ Interlayer: Double steel wire braids
- ❖ Cover: Polyurethane
- ❖ 316 stainless steel end connections
- ❖ Standard and custom-length assemblies



Hose Technical Data

Hose Size	Inside Diameter	Outside Diameter	Min. Bend Radius	Temperature Range °F(°C)	Working Pressure at 20°C (70°F)	Burst pressure
in. (mm)	in. (mm)	in. (mm)	in. (mm)		psig (bar)	psig (bar)
1/4	0.25 (6.35)	0.55 (14.1)	4.0 (100)	-40 to 158 (-40 to 70)	10000 (690)	25000 (1750)
3/8	0.375 (9.53)	0.69 (17.5)	6.0 (150)			
1/2	0.50 (12.7)	0.83 (21.2)	8.0 (200)			

Testing

- ❖ Every Hikelok 10HPH series hose assembly is factory tested with pure water at the maximum working pressure.

Cleaning and Packaging

- ❖ Hikelok 10HPH series hose components are cleaned in accordance with Hikelok standard cleaning for general industrial procedures.
- ❖ Shorter hoses are packed in cartons with suitable protective material, longer hoses are coiled, bagged and boxed or crated.

How to Order

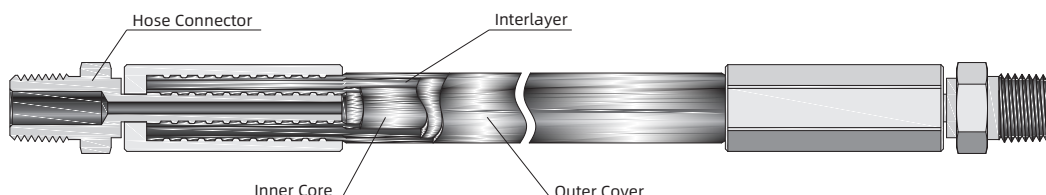
Hose Series	Nominal Hose Size	End Connection 1 Type	End Connection 1 Size	End Connection 2 Type and Size	Overall Length	End Connection Material	
10HPH	4 1/4 in.	FNPT Female NPT	4 1/4 in.	Same as port 1 type and port 1 size If port 2 and port 1 are the same, eliminate the port 2 designator	F** ** in	316 316 S.S.	
	6 3/8 in.	NPT Male NPT	6 3/8 in.		M** ** mm	304 304 S.S.	
	8 1/2 in.	FBT Female BSPT	8 1/2 in.				
		MBT Male BSPT	12 3/4 in.				
		SAN Swivel Female SAE 37°(JIC)	16 1 in.				
		37CMS Male Metric 37°					
		QJFMS Female Metric Swivel 37°					

High pressure Hose

15HPH Series

Features

- ❖ Maximum working pressure up to 15000 psig (1034 bar)
- ❖ Working temperature from -22°F to 140°F (-30°C to 60°C)
- ❖ Inner Core : Thermoplastic Elastomer (TEP) / Polyamide (PA)
(Note: Thermoplastic Elastomer is used for 1/4" hose)
- ❖ Interlayer: 4 layers of high-strength steel wire woven mesh
(Note: Single /double braids of aramid fiber with single steel wire braid used for 1/4" hose)
- ❖ Outer Cover: Polyurethane (TPU) / Polyamide (PA)
(Note: Polyurethane (TPU) is used for 1/4" and 3/8" hose)
- ❖ Application: high pressure water spraying equipment, hydraulic control, handling control of subsea hydraulic components and oil-gas conversion, etc.



Hose Technical Data

Hose Size	ID in.(mm)	OD in.(mm)	Minimum bending radius in.(mm)	Temperature range °F(°C)	Working pressure psi(bar)	Burst pressure
15HPH-4	0.252 (6.4)	0.539 (13.7)	1.496 (38)	-22 to 140 (-30 to 60)	15000 (1034)	40000 (2760)
15HPH-6	0.394 (10.0)	0.677 (17.2)	4.921 (125)			40000 (2760)
15HPH-8	0.504 (12.8)	0.866 (22.0)	7.874 (200)			40000 (2760)
15HPH-12	0.740 (18.8)	1.134 (28.8)	9.843 (250)			37700 (2600)

Testing

- ❖ Every Hikelok 15HPH series hose assembly is factory tested with pure water at the maximum working pressure.

Cleaning and Packaging

- ❖ Hikelok 15HPH series hose components are cleaned in accordance with Hikelok standard cleaning for general industrial procedures.
- ❖ Shorter hoses are packed in cartons with suitable protective material, longer hoses are coiled, bagged and boxed or crated.

How to Order

15HPH — 4 — FNPT4 — NPT4 — F36 — 316

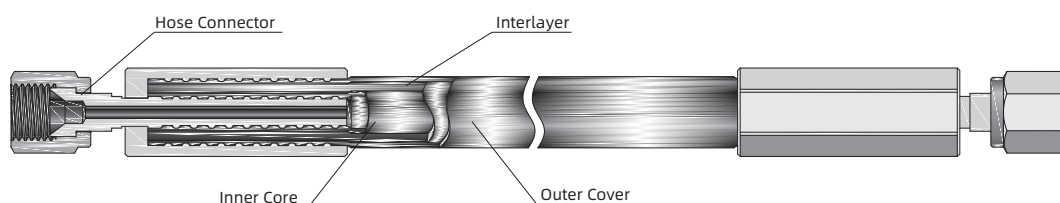
Series	Nominal Hose Size	End Connection 1 Type	End Connection 1 Size	End Connection 2 Type and Size	Overall Length	End Connection Material
15HPH	4 1/4 in.	FNPT Female NPT	4 1/4 in.	Same as end 1	F** ** in	304 304 S.S.
	6 3/8 in.	NPT Male NPT	6 3/8 in.		M** ** mm	304L 304L S.S.
	8 1/2 in.	FBT Female BSPT	8 1/2 in.		316 316 S.S.	
	12 3/4 in.	MBT Male BSPT			316L 316L S.S.	
		LPF UN Male				

High pressure Hose

20HPH Series

Features

- ❖ Maximum working pressure up to 20000 psig (1379 bar)
- ❖ Working temperature from -22°F to 140°F (-30°C to 60°C)
- ❖ Inner Core: Polyoxymethylene (POM) / Polyamide (PA)
(Note: Polyoxymethylene is used for 1/4" hose and 3/8" hose)
- ❖ Interlayer: 4 layers of high-strength steel wire woven mesh
(Note: 6 layers of high-strength steel wire woven mesh is used for 3/4" hose and 1" hose)
- ❖ Outer Cover: Polyamide (PA)
- ❖ Application: high pressure water spraying equipment, hydraulic control, handling control of sub hydraulic components and oil-gas conversion, etc.



Hose Technical Data

Hose Size	ID in.(mm)	OD in.(mm)	Minimum bending radius in.(mm)	Temperature range °F(°C)	Working pressure psi(bar)	Burst pressure
20HPH-4	0.248 (6.3)	0.496 (12.6)	7.097 (180)	-22 to 140 (-30 to 60)	20000 (1379)	55000 (3793)
20HPH-6	0.390 (9.9)	0.724 (18.4)	7.874 (200)			55000 (3793)
20HPH-8	0.504 (12.8)	0.866 (22.0)	7.874 (200)			50000 (3448)
20HPH-12	0.740 (18.8)	1.291 (32.8)	13.780 (350)			50000 (3448)
20HPH-16	0.976 (24.8)	1.567 (39.8)	23.622 (600)			43500 (3000)

Testing

- ❖ Every Hikelok 20HPH series hose assembly is factory tested with pure water at the maximum working pressure.

Cleaning and Packaging

- ❖ Hikelok 20HPH series hose components are cleaned in accordance with Hikelok standard cleaning for general industrial procedures.
- ❖ Shorter hoses are packed in cartons with suitable protective material, longer hoses are coiled, bagged and boxed or crated.

How to Order

20HPH — 4 — SAN4 — MPFT4 — F36 — 316

Series	Nominal Hose Size	End Connection 1 Type	End Connection 1 Size	End Connection 2 Type and Size	Overall Length	End Connection Material
20HPH	4 1/4 in. 6 3/8 in. 8 1/2 in. 12 3/4 in. 16 1 in.	SAN SAE 37°(JIC)	4 1/4 in.	Same as end 1	F** ** in M** ** mm	304 304 S.S.
			6 3/8 in.			304L 304L S.S.
		MPFT UN Male	8 1/2 in.			316 316 S.S.
			10 5/8 in.			316L 316L S.S.
			4 1/4 in.			
			6 3/8 in.			
			9 9/16 in.			
			12 3/4 in.			
			16 1 in.			