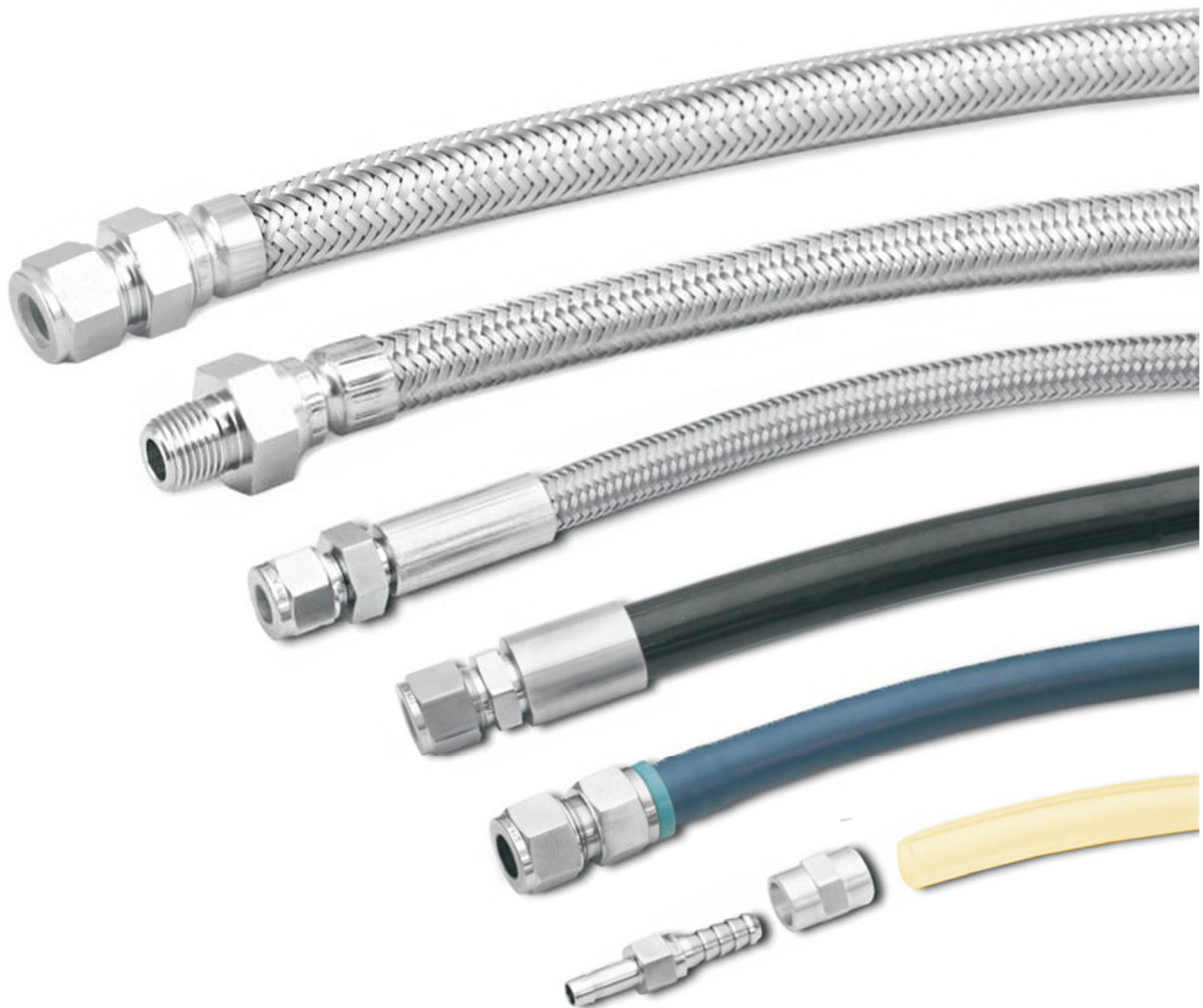


Hoses and Connectors



ROKE
Valves ,Fittings and Tubing

www.chinaroke.com

Contents

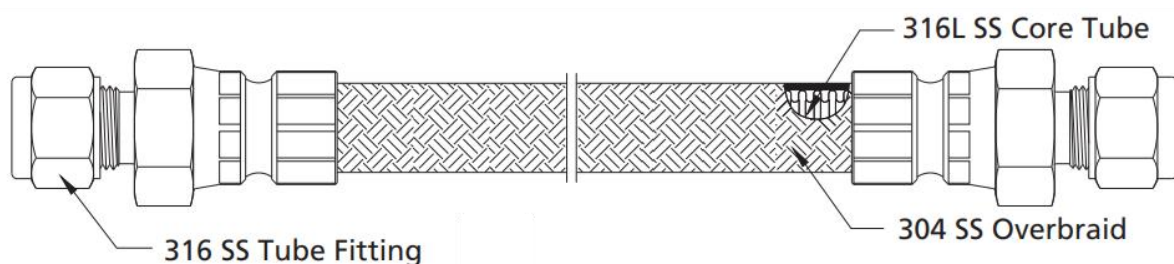
<u>Metal Flexible Hoses</u>	<u>MFH, MMH Series</u>	<u>01</u>
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Metal Flexible Hoses

MFH, MMH Series

Features

- Core tube material: 316 stainless steel
- Fitting material: 316 stainless steel
- Overbraid material: 304, 316 stainless steel available
- Nominal hose size: 1/4" to 2"
- End connection sizes: 1/4" to 2" and 6 mm to 50 mm
- Maximum Working pressure : 3000 psig (207 bar)
- Working temperature:-325°F to 800°F (-200°C to 426°C)
- Vacuum and positive pressure applications
- Standard and custom length available



Hose Technical Parameters (MFH Series)

Hose Series	Nominal Hose Sizes	Inside Diameter	Min. Bend Radius		Temperature Range	Working pressure at 70°F (20°C)	Min. Burst pressure at 70°F (20°C)
			Static	Dynamic			
	in.(mm)	in.(mm)	in.(mm)	in.(mm)	°F (°C)	Psig(bar)	Psig(bar)
MFH4	1/4	0.28 (7.1)	2.25 (57.2)	10.0 (25.4)	-325 to 800 (-200 to 426)	3000 (207)	12000 (828)
MFH6	3/8	0.42 (10.6)	3.00 (76.2)	12.0 (305)		2000 (137)	8000 (551)
MFH8	1/2	0.53 (13.5)	4.50 (114)	16.0 (406)		1800 (124)	7200 (496)
MFH12	3/4	0.80 (20.3)	6.00 (152)	17.0 (432)		1500 (103)	6000 (413)
MFH16	1	1.03 (26.0)	6.75 (171)	20.0 (508)		1200 (82.6)	4800 (330)
MFH20	1 1/4	1.30 (33.0)	8.86 (225)	23.0 (584)		950 (65.4)	3800 (261)
MFH24	1 1/2	1.53 (38.9)	11.0 (280)	26.0 (660)		900 (62.0)	3600 (248)
MFH32	2	2.05 (52.1)	13.8 (350)	32.0 (813)		500 (34.4)	2000 (137)

Hose Technical Parameters (MMH Series)

Hose Series	Nominal Hose Sizes	Inside Diameter	Min. Bend Radius				Temperature Range	Working pressure	Min. Burst pressure
			Helical Convoluted Core		Annular Convoluted Core				
			Static	Dynamic	Static	Dynamic		at 70°F (20°C)	
	in.(mm)	in.(mm)	in.(mm)	in.(mm)	in.(mm)	in.(mm)	°F (°C)	Psig(bar)	Psig(bar)
MMH4	1/4	0.25 (6.4)	1.38 (35)	8.66 (220)	0.79 (20)	4.33 (110)	-325 to 800 (-200 to 426)	1600 (110)	6400 (440)
MMH6	3/8	0.38 (9.5)	2.36 (60)	10.4 (254)	0.98 (25)	5.91 (150)		1470 (101)	6000 (413)
MMH8	1/2	0.50 (12.7)	2.95 (75)	11.9 (302)	1.18 (30)	5.91 (150)		1110 (76.4)	4500 (310)
MMH12	3/4	0.75 (19.0)	3.54 (90)	13.6 (345)	1.50 (38)	6.65 (169)		860 (59.2)	3500 (241)
MMH16	1	1.00 (25.4)	4.13 (105)	15.0 (381)	1.77 (45)	7.68 (195)		680 (46.8)	2680 (184)
MMH20	1 1/4	1.25 (31.8)	4.72 (120)	16.2 (412)	-	-		680 (46.8)	2680 (184)
MMH24	1 1/2	1.50 (38.1)	5.51 (140)	16.9 (429)	-	-		520 (35.8)	2200 (151)
MMH32	2	2.00 (50.8)	6.30 (160)	18.4 (467)	-	-		450 (31.0)	1800 (124)

Testing

Every metal flexible hose is tested with nitrogen or air at maximum working pressure and is subject to sampling test with helium to a maximum leak rate of 1×10^{-5} std cm³/s before shipment .

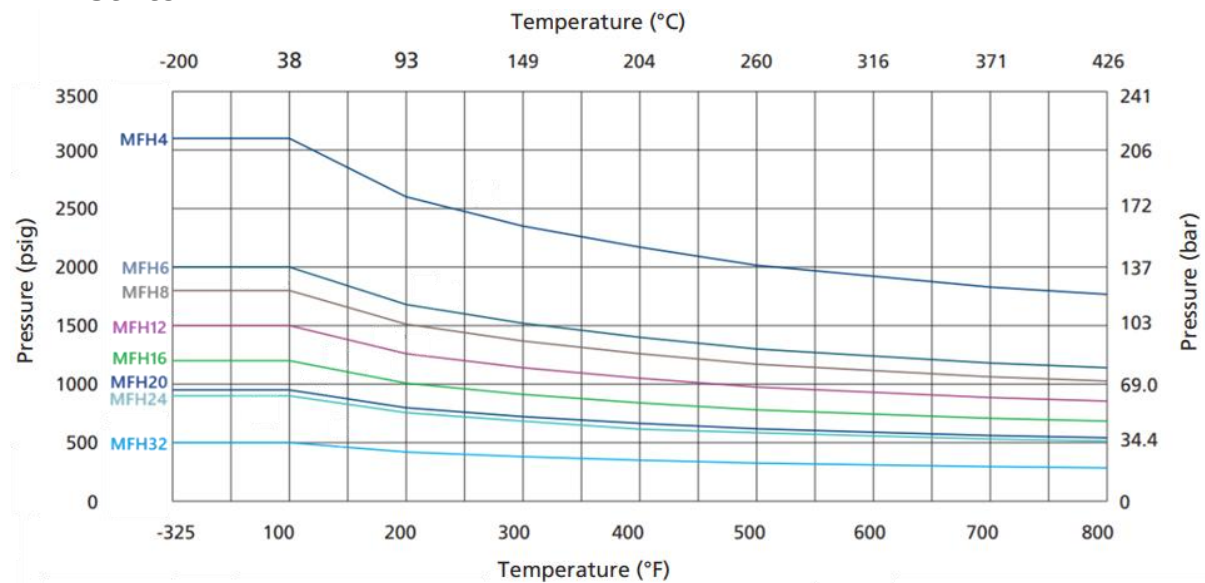
Cleaning and Packaging

ROKE metal flexible hose components are cleaned in accordance with ROKE Standard Cleaning and Packaging Process (CPS-01) for general industrial procedures.

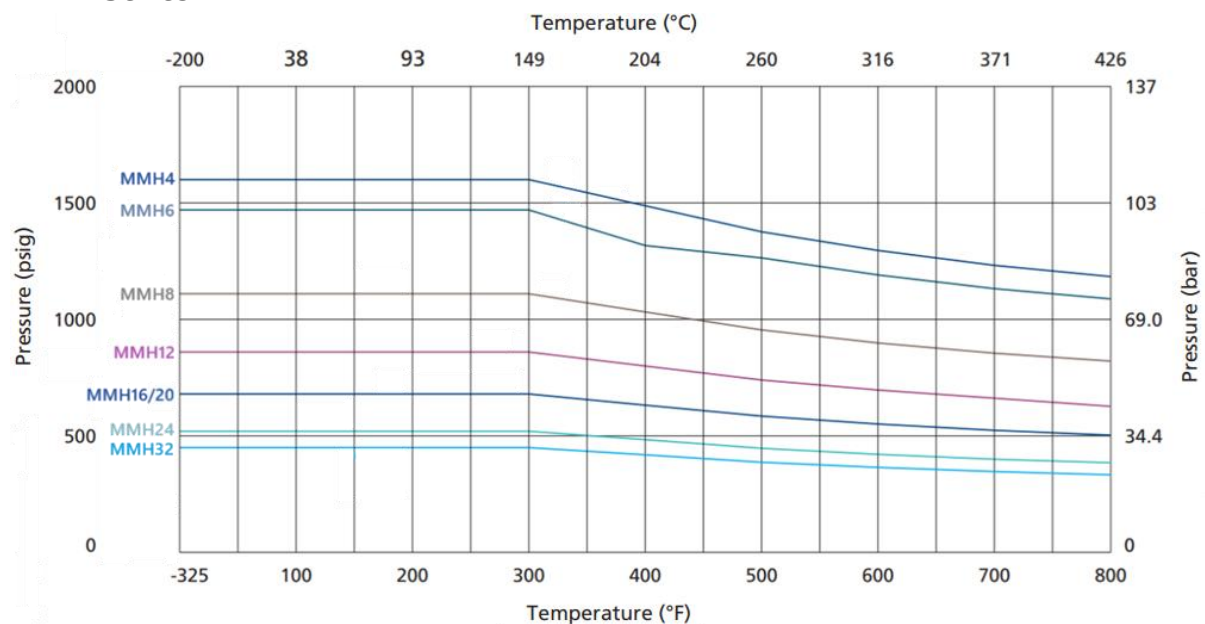
Shorter hoses are packed in cartons with suitable protective material, longer hoses are coiled, bagged and boxed or crated.

Pressure vs. Temperature

MFH Series



MMH Series

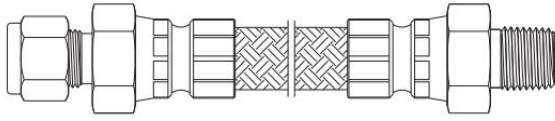


Options: Anti-whip Cable

- 304 stainless steel cable. If you need to purchase, please add "- SP" after the ordering number.
- Available on hoses without changing the technical parameters of hoses.
- Prevent hoses from whipping around and causing serious injuries in the event of fitting blow-off or hose burst.

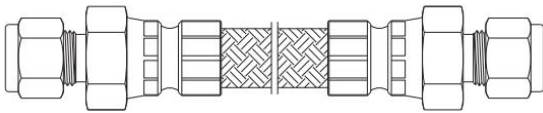
Standard Assemblies

Tube Fitting to Male NPT End



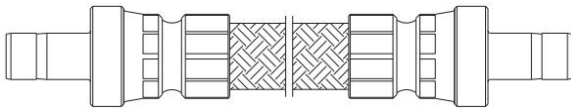
Ordering Number	Hose Series	Nominal Hose Size	Tube Fitting	Mae Thread	Overall Lenth	Minimum Inside Diameter	Maximum Outside Dimension
		in.(mm)	in.(OD)	NPT	in.(mm)	in.(mm)	in.(mm)
SS-MFH4-FT4-MN4-L12	MFH4	1/4	1/4	1/4	12 (305)	0.19 (4.8)	0.94 (23.8)
SS-MMH4-FT4-MN4-L36	MMH4				36 (915)		0.87 (22.0)
SS-MFH6-FT6-MN6-L18	MFH6	3/8	3/8	3/8	18 (457)	0.28 (7.1)	1.09 (27.7)
SS-MMH6-FT6-MN6-L36	MMH6				36 (915)		1.01 (25.7)
SS-MFH8-FT8-MN8-L18	MFH8	1/2	1/2	1/2	18 (457)	0.41 (10.4)	1.23 (31.3)
SS-MMH8-FT8-MN8-L48	MMH8				48 (1220)		1.23 (31.3)
SS-MFH12-FT12-MN12-L18	MFH12	3/4	3/4	3/4	18 (457)	0.66 (16.0)	1.74 (44.2)
SS-MMH12-FT12-MN12-L48	MMH12				48 (1220)		1.59 (40.5)
SS-MFH16-FT16-MN16-L24	MFH16	1	1	1	24 (610)	0.88 (22.4)	1.82 (46.3)

Tube Fitting End



Ordering Number	Hose Series	Nominal Hose Size	Tube Fitting	Overall Lenth	Minimum Inside Diameter	Maximum Outside Dimension
		in.(mm)	in.(OD)	in.(mm)	in.(mm)	in.(mm)
SS-MFH4-FT4-L12	MFH4	1/4	1/4	12 (305)	0.19 (4.8)	0.94 (23.8)
SS-MMH4-FT4-L26	MMH4			36 (915)		0.87 (22.0)
SS-MFH6-FT6-L18	MFH6	3/8	3/8	18 (457)	0.28 (7.1)	1.09 (27.7)
SS-MMH6-FT6-L36	MMH6			36 (915)		1.01 (25.7)
SS-MFH8-FT8-L18	MFH8	1/2	1/2	18 (457)	0.41 (10.4)	1.23 (31.3)
SS-MMH8-FT8-L48	MMH8			48 (1220)		1.23 (31.3)
SS-MFH12-FT12-L18	MFH12	3/4	3/4	18 (457)	0.66 (16.0)	1.74 (44.2)
SS-MMH12-FT12-L48	MMH12			48 (1220)		1.59 (40.5)
SS-MFH16-FT16-L24	MFH16	1	1	24 (610)	0.88 (22.4)	1.82 (46.3)

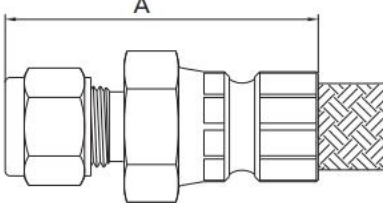
Tube Adapter End



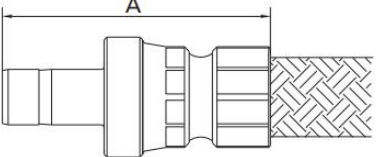
Ordering Number	Hose Series	Nominal Hose Size	Tube Adapter	Overall Lenth	Minimum Inside Diameter	Maximum Outside Dimension
		in.(mm)	in.(OD)	in.(mm)	in.(mm)	in.(mm)
SS-MFH4-FTD4-L12	MFH4	1/4	1/4	12 (305)	0.19 (4.8)	0.81 (20.6)
SS-MMH4-FTD4-L36	MMH4			36 (915)		0.76 (19.2)
SS-MFH6-FTD6-L18	MFH6	3/8	3/8	18 (457)	0.28 (7.1)	1.01 (25.6)
SS-MMH6-FTD6-L36	MMH6			36 (915)		0.91 (23.1)

End Connections

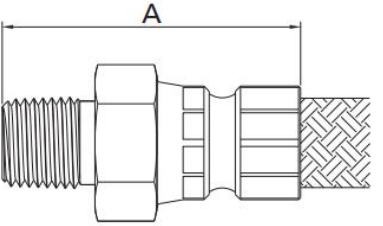
Tube Fitting

Illustration	Nominal Hose Size	Tube Fitting	Tube Fitting Designator	A	Minimum Inside Diameter	Maximum Outside Dimension
	in.(mm)	in.(OD)	in.(OD)	in.(mm)	in.(mm)	in.(mm)
	1/4	1/4	FT4	1.94 (49)	0.19 (4.8)	0.94 (23.8)
	3/8	1/4	FT4	2.01 (51)	0.28 (7.1)	0.94 (23.8)
		3/8	FT6	2.04 (52)	0.28 (7.1)	1.09 (27.7)
	1/2	1/2	FT8	2.24 (57)	0.41 (10.4)	1.23 (31.3)
		5/8	FT10	2.28 (58)	0.50 (12.7)	1.23 (31.3)
	3/4	3/4	FT12	2.36 (60)	0.66 (16.0)	1.74 (44.2)
	1	1	FT16	2.64 (67)	0.88 (22.4)	1.82 (46.3)
	1 1/4	1 1/4	FT20	4.04 (103)	1.09 (27.7)	2.23 (58.9)
	1 1/2	1 1/2	FT24	4.75 (120)	1.34 (34.0)	2.61 (66.3)
	2	2	FT32	5.72 (145)	1.88 (47.8)	3.48 (88.4)
	Nominal Hose Size	Tube Fitting	Tube Fitting Designator	A	Minimum Inside Diameter	Maximum Outside Dimension
	in.(mm)	mm(OD)	mm(OD)	mm (in.)	mm (in.)	mm (in.)
	1/4	6	MT6	62 (2.44)	4.8 (0.19)	20.6 (0.81)
	1/4	8	MT8	63 (2.48)	6.4 (0.25)	20.6 (0.81)
	3/8	10	MT10	52 (2.05)	7.9 (0.31)	31.3 (1.23)
	1/2	12	MT12	57 (2.24)	9.7 (0.38)	38.8 (1.53)

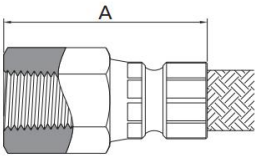
Tube Adapter

Illustration	Nominal Hose Size	Tube Adapter	Tube Adapter Designator	A	Minimum Inside Diameter	Maximum Outside Dimension
	in.(mm)	in.(OD)	in.(OD)	in.(mm)	in.(mm)	in.(mm)
	1/4	1/4	FTD4	1.78 (45)	0.16 (4.1)	0.81 (20.6)
	3/8	3/8	FTD6	1.81 (46)	0.27 (6.9)	1.01 (25.6)
	1/2	1/2	FTD8	2.21 (56)	0.37 (9.4)	1.23 (31.3)
	3/4	3/4	FTD12	2.36 (60)	0.58 (14.7)	1.53 (38.8)
	1	1	FTD16	2.68 (68)	0.80 (20.3)	1.82 (46.3)
	Nominal Hose Size	Tube Adapter	Tube Adapter Designator	A	Minimum Inside Diameter	Maximum Outside Dimension
	in.(mm)	mm(OD)	mm(OD)	mm (in.)	mm (in.)	mm (in.)
	1/4	6	MTD6	45 (1.77)	4.1 (0.16)	20.6 (0.81)
	3/8	10	MTD10	47 (1.85)	7.1 (0.28)	25.6 (1.01)
	1/2	12	MTD12	57 (2.24)	8.9 (0.35)	31.3 (1.23)

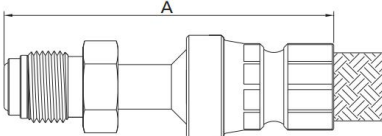
Male NPT

Illustration	Nominal Hose Size	Male Thread	Male Thread Designator	A	Minimum Inside Diameter	Maximum Outside Dimension
	in.(mm)	NPT	NPT	in.(mm)	in.(mm)	in.(mm)
	1/4	1/4	MN4	1.81 (46)	0.28 (7.1)	0.94 (23.8)
	3/8	1/4	MN4	1.81 (46)	0.28 (7.1)	1.09 (27.7)
	3/8	3/8	MN6	1.81 (46)	0.38 (9.7)	1.09 (27.7)
	1/2	1/2	MN8	2.17 (55)	0.47 (11.9)	1.23 (31.3)
	3/4	3/4	MN12	2.21 (56)	0.63 (16.0)	1.74 (44.2)
	1	1	MN16	2.56 (65)	0.88 (22.4)	1.82 (46.3)
	1 1/4	1 1/4	MN20	3.07 (78)	1.09 (27.7)	2.23 (58.9)
	1 1/2	1 1/2	MN24	3.74 (95)	1.34 (34.0)	2.47 (62.6)
	2	2	MN32	4.19 (106)	1.81 (46.0)	3.19 (81.0)

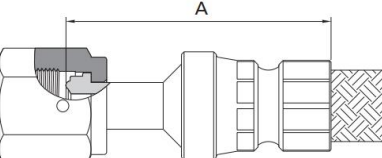
Female NPT

Illustration	Nominal Hose Size	Female Thread	Female Thread Designator	A	Minimum Inside Diameter	Maximum Outside Dimension
	in.(mm)	NPT	NPT	in.(mm)	in.(mm)	in.(mm)
	1/4	1/4	FN4	1.81 (46)	0.28 (7.1)	0.94 (23.8)
	3/8	3/8	FN6	1.89 (48)	0.38 (9.7)	1.09 (27.7)
	1/2	1/2	FN8	2.17 (55)	0.47 (11.9)	1.23 (31.3)
	3/4	3/4	FN12	2.21 (56)	0.72 (18.3)	1.74 (44.2)

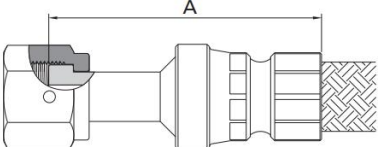
Male Face Seal Fittings Swivel

Illustration	Nominal Hose Size	Male Face Size	Male Face Designator	A	Minimum Inside Diameter	Maximum Outside Dimension
	in.(mm)	in.	in.	in.(mm)	in.(mm)	in.(mm)
	1/4	1/4	MFR4	2.60 (66)	0.18 (4.6)	0.81 (20.6)
	1/2	1/2	MFR8	2.83 (72)	0.40 (10.2)	1.23 (31.3)
	3/4	3/4	MFR12	4.19 (106)	0.65 (16.5)	1.52 (38.7)
	1	1	MFR16	4.80 (122)	0.87 (22.1)	1.53 (38.8)

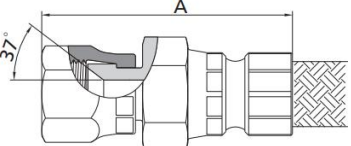
Female Face Seal Fittings Swivel

Illustration	Nominal Hose Size	Female Face Size	Female Face Designator	A	Minimum Inside Diameter	Maximum Outside Dimension
	in.(mm)	in.	in.	in.(mm)	in.(mm)	in.(mm)
	1/4	1/4	FFR4	2.01 (51)	0.18 (4.6)	0.87 (22.1)
	1/2	1/2	FFR8	2.17 (55)	0.40 (10.2)	1.23 (31.3)
	3/4	3/4	FFR12	4.19 (106)	0.65 (16.5)	1.74 (44.2)
	1	1	FFR16	4.80 (122)	0.87 (22.1)	2.03 (51.6)

Female O-Ring Face Seal Fittings Swivel

Illustration	Nominal Hose Size	O-Ring Face Size	O-Ring Face Designator	A	Minimum Inside Diameter	Maximum Outside Dimension
	in.(mm)	in.	in.	in.(mm)	in.(mm)	in.(mm)
	1/4	1/4	FFO4	2.13 (54)	0.18 (4.6)	0.81 (20.6)
	1/2	1/2	FFO8	2.17 (55)	0.40 (10.2)	1.23 (31.3)

SAE 37° (JIC) Female Swivel

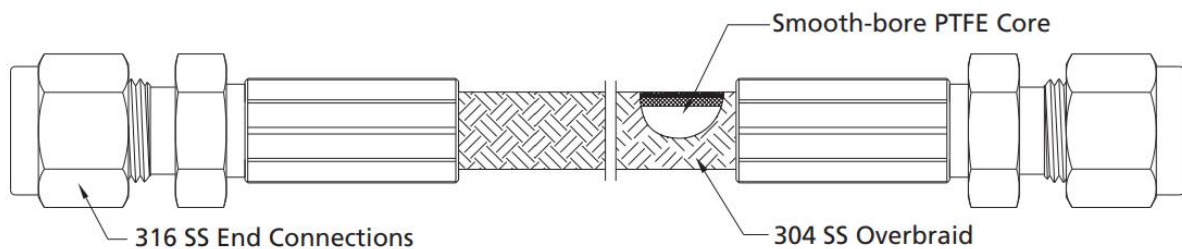
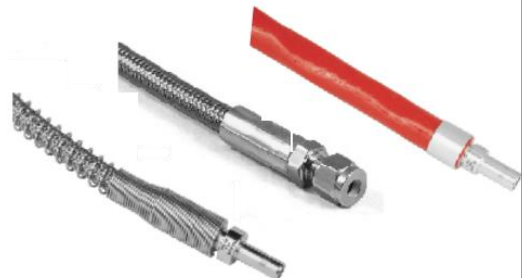
Illustration	Nominal Hose Size	JIC Size	JIC Designator	A	Minimum Inside Diameter	Maximum Outside Dimension
	in.(mm)	in.	in.	in.(mm)	in.(mm)	in.(mm)
	1/4	1/4	JAS4	1.89 (48)	0.17 (4.3)	0.81 (20.6)
	1/2	1/2	JAS6	1.97 (50)	0.28 (7.1)	1.01 (25.6)
	3/4	3/4	JAS12	2.24 (57)	0.42 (10.7)	1.23 (31.3)

PTFE-lined Stainless Steel Braided Hoses

PS Series

Features

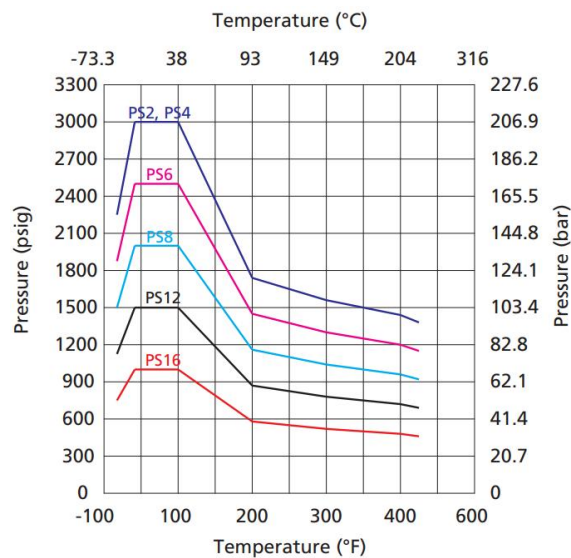
- Core tube material: PTFE
- Overbraid material: 304 stainless steel
- Fitting material: 316 stainless steel
- Nominal hose size: 1/4" to 1"
- End connection sizes: 1/4" to 1" and 6 mm to 25 mm
- Maximum Working pressure: 3000 psig (207 bar)
- Working temperature: -65°F to 400°F (-53°C to 204°C)
- Standard and custom length available



Hose Technical Parameters (MFH Series)

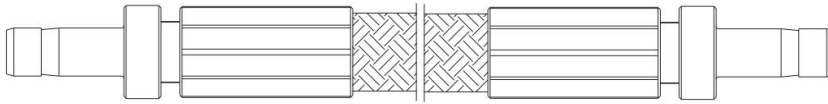
Hose Series	Nominal Hose Sizes	Inside Diameter	Min. Bend Radius		Temperature Range	Working pressure at 70°F (20°C)	Min. Burst pressure at 70°F (20°C)
			Static	Dynamic			
	in.(mm)	in.(mm)	in.(mm)	in.(mm)	°F (°C)	Psig(bar)	Psig(bar)
PS4	1/4	0.19 (4.8)	1.5 (38.1)	2.0 (50.8)	-65 to 400 (-53 to 204)	3000 (207)	12000 (828)
PS6	3/8	0.31 (7.9)	3.5 (88.9)	5.0 (127)		2500 (172)	10000 (689)
PS8	1/2	0.41 (10.3)	4.5 (114)	6.0 (152)		2000 (137)	8000 (551)
PS12	3/4	0.63 (15.9)	6.0 (152)	7.5 (190)		1500 (103)	6000 (413)
PS16	1	0.88 (22.2)	9.0 (229)	11.3 (287)		1000 (68.9)	4000 (275)

Pressure vs. Temperature



Standard Assemblies

Tube Adapter End



Ordering Number	Hose Series	Nominal Hose Size	Tube Adapter	Overall Lenth	Min. Inside Diameter	Max. Outside Dimension
		in.	in.(OD)	in.(mm)	in.(mm)	in.(mm)
SS-PS4-FTD4-L6	PS4	1/4	1/4	6 (153)	0.16 (4.1)	0.54 (13.7)
SS-PS4-FTD4-L12	PS4			12 (305)		
SS-PS4-FTD4-L18	PS4			18 (458)		
SS-PS4-FTD4-L24	PS4			24 (610)		
SS-PS4-FTD4-L36	PS4			36 (915)		
SS-PS4-FTD4-L48	PS4			48 (1220)		
SS-PS4-FTD4-L60	PS4			60 (1530)		
SS-PS4-FTD4-L72	PS4			72 (1830)		
SS-PS4-FTD4-120	PS4			120 (3050)		
SS-PS6-FTD6-L12	PS6	3/8	3/8	12 (305)	0.27 (6.9)	0.73 (18.5)
SS-PS6-FTD6-L18	PS6			18 (458)		
SS-PS6-FTD6-L24	PS6			24 (610)		
SS-PS6-FTD6-L36	PS6			36 (915)		
SS-PS6-FTD6-L48	PS6			48 (1220)		
SS-PS6-FTD6-L60	PS6			60 (1530)		
SS-PS6-FTD6-L72	PS6			72 (1830)		
SS-PS6-FTD6-L96	PS6			96 (2440)		
SS-PS6-FTD6-120	PS6			120 (3050)		
SS-PS8-FTD8-L12	PS6	1/2	1/2	12 (305)	0.36 (9.1)	0.86 (21.8)
SS-PS8-FTD8-L24	PS6			24 (610)		
SS-PS8-FTD8-L36	PS6			36 (915)		
SS-PS8-FTD8-L48	PS6			48 (1220)		
SS-PS8-FTD8-L60	PS6			60 (1530)		
SS-PS8-FTD8-L72	PS6			72 (1830)		
SS-PS12-FTD12-L24	PS6	3/4	3/4	24 (610)	0.53 (13.5)	1.04 (26.4)
SS-PS12-FTD12-L36	PS6			36 (915)		
SS-PS16-FTD16-L48	PS6	1	1	48 (1220)	0.80 (20.3)	1.36 (34.5)
Ordering Number	Hose Series	Nominal Hose Size	Tube Adapter	Overall Lenth	Min. Inside Diameter	Max. Outside Dimension
		in.	mm(OD)	in.(mm)	in.(mm)	in.(mm)
SS-PS4-MTD6-L12	PS4	1/4	6	12 (305)	0.16 (4.1)	0.54 (13.7)
SS-PS4-MTD6-L24	PS4			24 (610)		
SS-PS4-MTD6-L36	PS4			36 (915)		
SS-PS8-MTD12-L24	PS8	1/2	12	24 (610)	0.33 (8.4)	0.86 (21.8)
SS-PS8-MTD12-L36	PS8			36 (915)		

Options

Anti-whip Cable

- 304 stainless steel cable. If you need to purchase, please add "- SP" after the ordering number.
- Available on hoses without changing the technical parameters of hoses.
- Prevent hoses from whipping around and causing serious injuries in the event of fitting blow-off or hose burst.

Spring Guard

- Protect the hose from abrasion, overbending, and kinking .
- If you need to purchase, please add "- SK" after the ordering number.

Fire Jacket

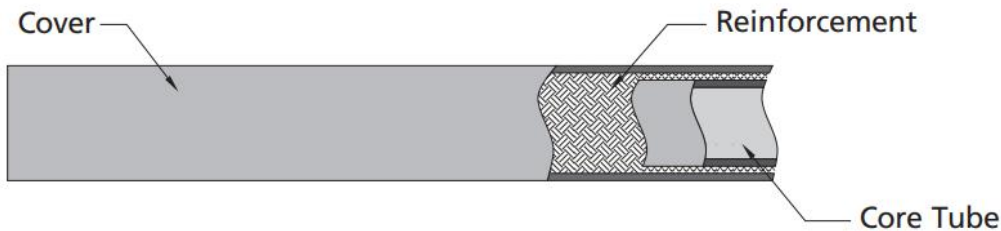
- Braided fiberglass coated with organic, high-temperature-resistant iron oxide red silicone rubber
- Operating temperature from -65 to 500°F (-53 to 260°C) with max. short-term exposure temperature to 3002°F (1650°C).
- Offers excellent flame and fire protection and has good thermal and electrical insulation with resistance to acid & alkali.
- If you need to purchase, please add "- F" after the ordering number.

Multipurpose Push-on Hoses

MPH Series

Features

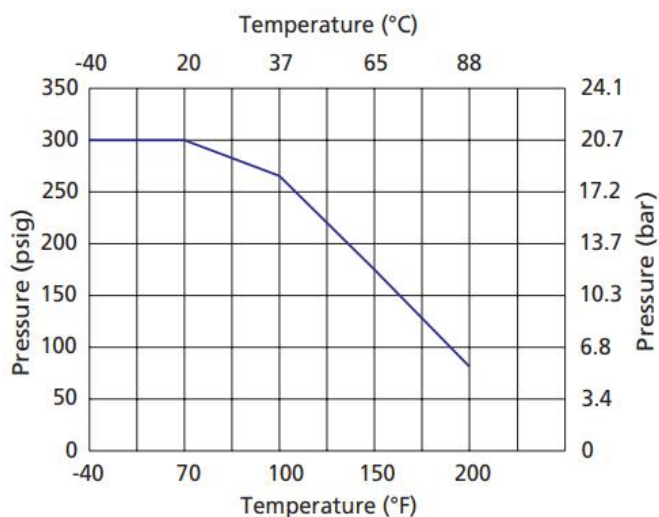
- Core tube material: highly oil-resistant rubber
- Reinforcement: single-braid high-strength synthetic fiber
- Cover: weatherproof, abrasion withstanding and oil-resistant synthetic rubber
- Fitting material: stainless steel and brass
- Nominal hose size: 1/4" to 3/4"
- Hose colors: blue, black, green, gray, red and yellow
- Maximum Working pressure: 300 psig (20.7 bar)
- Working temperature: -40°F to 200°F (-40°C to 93°C)
- Standard and custom length available



Hose Technical Parameters (MPH Series)

Hose Series	Nominal Hose Sizes	Inside Diameter	Min. Bend Radius	Temperature Range	Working pressure at 70°F (20°C)	Min. Burst pressure at 70°F (20°C)
	in.	in.(mm)	in.(mm)	°F (°C)	Psig(bar)	Psig(bar)
MPH4	1/4	0.26 (6.6)	2.5 (63.5)	-40 to 200 (-40 to 93)	300 (20.7)	1200 (82.8)
MPH6	3/8	0.39 (9.9)	3.0 (76.2)			
MPH8	1/2	0.50 (12.7)	5.0 (127)			
MPH12	3/4	0.76 (19.3)	7.0 (178)			

Pressure vs. Temperature



Testing

Every multipurpose push-on hose assembly is tested with water at 1.5 times the max working pressure.

Cleaning and Packaging

ROKE metal flexible hose components are cleaned in accordance with ROKE Standard Cleaning and Packaging Process (CPS-01) for general industrial procedures.

Shorter hoses are packed in cartons with suitable protective material, longer hoses are coiled, bagged and boxed or crated.

Caution

- Do not reuse the hose.

End Connections

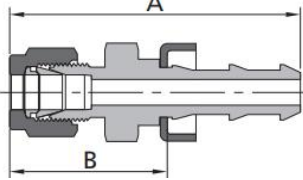
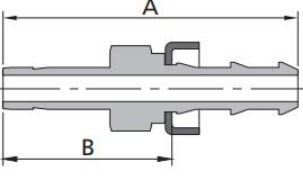
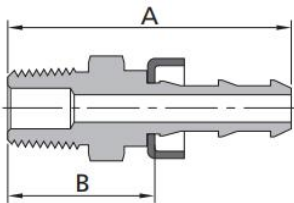
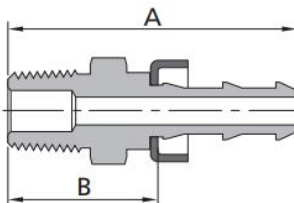
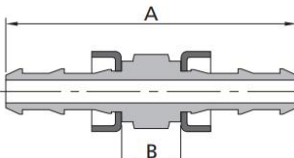
Illustration	Ordering Number	Nominal Hose Size	Tube Fitting	A	B	Min. Inside Diameter	Max. Outside Dimension
		in.	in.(OD)	in.(mm)	in.(mm)	in.(mm)	in.(mm)
Tube Fitting 	SS-MPH4-FT4-	1/4	1/4	1.97 (50.0)	1.21 (30.7)	0.16 (4.1)	0.67 (17.0)
	SS-MPH6-FT6-	3/8	3/8	2.11 (53.6)	1.24 (31.5)	0.27 (6.9)	0.87 (22.1)
	SS-MPH8-FT8-	1/2	1/2	2.47 (62.7)	1.42 (36.1)	0.37 (9.5)	1.02 (25.8)
Illustration	Ordering Number	Nominal Hose Size	Tube Adapter	A	B	Min. Inside Diameter	Max. Outside Dimension
		in.	in.(OD)	in.(mm)	in.(mm)	in.(mm)	in.(mm)
Tube Adapter 	SS-MPH4-FTD4-	1/4	1/4	1.93 (49.0)	1.17 (29.7)	0.15 (3.8)	0.67 (17.0)
	SS-MPH6-FTD6-	3/8	3/8	2.03 (51.6)	1.17 (29.7)	0.24 (6.1)	0.83 (21.1)
	SS-MPH8-FTD8-	1/2	1/2	2.47 (62.7)	1.42 (36.1)	0.34 (8.7)	0.98 (24.9)
	SS-MPH12-FTD12-	1/2	1/2	3.14 (79.8)	1.48 (37.6)	0.57 (14.5)	1.23 (31.3)
	Ordering Number	Nominal Hose Size	Tube Adapter	A	B	Min. Inside Diameter	Max. Outside Dimension
		in.	mm(OD)	mm(in.)	mm(in.)	mm(in.)	mm(in.)
	SS-MPH4-MTD6-	1/4	6	49.0 (1.93)	29.7 (1.17)	3.8 (0.15)	17.0 (0.67)
	SS-MPH4-MTD8-	1/4	8	49.0 (1.93)	29.7 (1.17)	4.1 (0.16)	17.0 (0.67)
	SS-MPH6-MTD8-	3/8	8	51.6 (2.03)	30.0 (1.18)	5.6 (0.22)	21.1 (0.83)
	SS-MPH6-MTD10-	3/8	10	51.6 (2.03)	30.0 (1.18)	6.9 (0.27)	21.1 (0.83)
	SS-MPH8-MTD12-	1/2	12	62.7 (2.47)	36.1 (1.42)	8.1 (0.32)	24.9 (0.98)
	SS-MPH12-MTD18-	3/4	18	79.8 (3.14)	37.3 (1.47)	8.6 (0.34)	31.3 (1.23)

Illustration	Ordering Number	Nominal Hose Size	Male Thread	A	B	Min. Inside Diameter	Max. Outside Dimension
		in.	NPT	in.(mm)	in.(mm)	in.(mm)	in.(mm)
NPT Male Thread 	SS-MFH4-MN4-	1/4	1/4	1.68 (42.7)	0.92 (23.4)	0.16 (4.1)	0.67 (17.0)
	SS-MFH6-MN4-	3/8	1/4	1.80 (45.7)	0.93 (23.6)	0.27 (6.9)	0.87 (22.1)
	SS-MFH6-MN6-	3/8	3/8	1.80 (45.7)	0.93 (23.6)	0.27 (6.9)	0.87 (22.1)
	SS-MFH8-MN8-	1/2	1/2	2.19 (55.6)	1.14 (29.0)	0.37 (9.5)	1.02 (25.8)
	SS-MFH12-MN12-	3/4	3/4	2.81 (71.4)	1.14 (29.0)	0.61 (15.6)	1.31 (33.3)
Illustration	Ordering Number	Nominal Hose Size	Male Thread	A	B	Min. Inside Diameter	Max. Outside Dimension
		in.	NPT	in.(mm)	in.(mm)	in.(mm)	in.(mm)
BSPT Male Thread 	SS-MFH4-MR4-	1/4	1/4	1.97 (50.0)	1.21 (30.7)	0.16 (4.1)	0.67 (17.0)
	SS-MFH6-MR4-	3/8	1/4	2.11 (53.6)	1.24 (31.5)	0.27 (6.9)	0.87 (22.1)
	SS-MFH6-MR6-	3/8	3/8	2.11 (53.6)	1.24 (31.5)	0.27 (6.9)	0.87 (22.1)
	SS-MFH8-MR8-	1/2	1/2	2.47 (62.7)	1.42 (36.1)	0.37 (9.5)	1.02 (25.8)
	SS-MFH12-MR12-	3/4	3/4	2.47 (62.7)	1.42 (36.1)	0.37 (9.5)	1.02 (25.8)
Illustration	Ordering Number	Nominal Hose Size	Fitting Size	A	B	Min. Inside Diameter	Max. Outside Dimension
		in.	in.(OD)	in.(mm)	in.(mm)	in.(mm)	in.(mm)
Union 	SS-MFH4-4-	1/4	1/4	2.07 (52.6)	0.40 (10.2)	0.16 (4.1)	0.67 (17.0)
	SS-MFH6-6-	3/8	3/8	2.61 (57.2)	0.43 (11.4)	0.27 (6.9)	0.83 (21.1)
	SS-MFH8-8-	1/2	1/2	2.61 (69.8)	0.43 (11.4)	0.37 (9.5)	0.96 (24.5)
	SS-MFH12-12-	3/4	3/4	3.85 (97.8)	0.47 (12.0)	0.61 (15.6)	1.23 (31.3)

- ⦿ Note: 1. For dimensions not shown above, please contact ROKE Sales department or local agent.
 2. The length of the hose is based on customer requirements. Please specify the length after the number.

For example:

SS-MPH4-FT4-20" , Indicating OD1/4 " tube fittings at both ends, with 20 inch long hose.

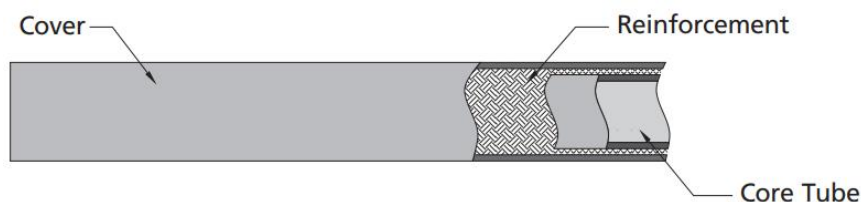
SS-MPH4-FT4-2m , Indicating OD1/4 " tube fittings at both ends, with a 2 meter long hose.

Thermoplastic Hoses

TPH Series

Features

- Core tube material: Nylon
- Reinforcement: double-braid high-strength synthetic fiber
- Cover: Polyurethane, resists oil, weather and abrasion
- Fitting material: stainless steel, brass or carbon steel
- Nominal hose size: 3/16" to 1"
- End connection sizes: 1/4" to 1" and 6 mm to 25 mm
- Maximum Working pressure: 5000 psig (345 bar)
- Working temperature: -40°F to 200°F (-40°C to 93°C)
- Standard and custom length available



Hose Technical Parameters (TPH Series)

(SAE 100R7)

Hose Series	Nominal Hose Sizes	Inside Diameter	Min. Bend Radius	Temperature Range	Working pressure at 70°F (20°C)	Min. Burst pressure at 70°F (20°C)
	in.	in.(mm)	in.(mm)	°F (°C)	Psig(bar)	Psig(bar)
TPH3-R7	3/16	0.19 (4.8)	1.58 (40)	-40 to 200 (-40 to 93)	3000 (207)	12000 (828)
TPH4-R7	1/4	0.25 (6.4)	1.97 (50)		2750 (189)	11000 (758)
TPH6-R7	5/16	0.31 (7.9)	2.36 (60)		2500 (173)	10000 (690)
TPH6-R7	3/8	0.38 (9.7)	2.95 (75)		2250 (155)	9000 (620)
TPH8-R7	1/2	0.50 (12.7)	3.74 (95)		2000 (137)	8000 (551)

(SAE 100R8)

Hose Series	Nominal Hose Sizes	Inside Diameter	Min. Bend Radius	Temperature Range	Working pressure at 70°F (20°C)	Min. Burst pressure at 70°F (20°C)
	in.	in.(mm)	in.(mm)	°F (°C)	Psig(bar)	Psig(bar)
TPH3-R8	3/16	0.19 (4.8)	2.00 (51)	-40 to 200 (-40 to 93)	5000 (344)	15000 (1378)
TPH4-R8	1/4	0.25 (6.4)	2.00 (51)		5000 (344)	15000 (1378)
TPH6-R8	3/8	0.38 (9.7)	2.50 (64)		4000 (275)	20000 (11020)
TPH8-R8	1/2	0.50 (12.7)	4.00 (102)		3500 (241)	14000 (964)
TPH12-R8	3/4	0.75 (19.0)	6.50 (165)		2250 (155)	9000 (620)
TPH16-R8	1	1.00 (25.4)	10.00 (254)		2000 (137)	8000 (551)

Testing

Every multipurpose push-on hose assembly is tested with water at 1.5 times the max working pressure.

Cleaning and Packaging

ROKE metal flexible hose components are cleaned in accordance with ROKE Standard Cleaning and Packaging Process (CPS-01) for general industrial procedures.

Shorter hoses are packed in cartons with suitable protective material, longer hoses are coiled, bagged and boxed or crated.

Options: Anti-whip Cable

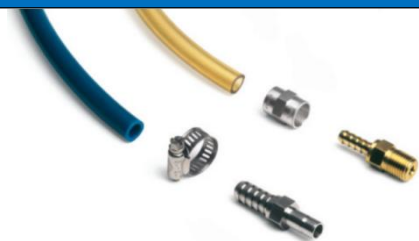
- 304 stainless steel cable. If you need to purchase, please add "- SP" after the ordering number.
- Available on hoses without changing the technical parameters of hoses.
- Prevent hoses from whipping around and causing serious injuries in the event of fitting blow-off or hose burst.

Hose Connectors and Sleeves

HCS Series

Features

- Used to connect soft plastic or rubber tubing
- Stainless steel or brass is available
- Shank design holds tubing inside diameter securely
- Hose connectors are reusable
- Working pressures and are wider than those of the connected hoses



Hose Connectors

Illustration	Ordering Number	Nominal Hose Size	Tube Fitting	F (Hex)	L	Min. Inside Diameter
		in.	in.(OD)	in.(mm)	in.(mm)	in.(mm)
Tube Fitting 	SS-HCS2-FT2	1/8	1/8	7/16	1.42 (36.1)	0.08 (2.0)
	SS-HCS4-FT2	1/4	1/8	7/16	1.81 (46.0)	0.09 (2.3)
	SS-HCS4-FT4		1/4	9/16	1.92 (48.8)	0.19 (4.8)
	SS-HCS6-FT4	3/8	1/4	9/16	1.99 (50.6)	0.19 (4.8)
	SS-HCS6-FT6		3/8	3/4	2.06 (52.3)	0.28 (7.1)
	SS-HCS8-FT8	1/2	1/2	7/8	2.24 (56.9)	0.38 (9.7)
	Ordering Number	Nominal Hose Size	Tube Fitting	F (Hex)	L	Min. Inside Diameter
		in.	mm(OD)	mm	mm(in.)	mm(in.)
	SS-HCS4-MT2	1/4	6	14	49.5 (1.95)	4.8 (0.19)
	SS-HCS5-MT2	5/16	8	16	49.8 (1.96)	6.4 (0.25)
	SS-HCS5-MT4		10	18	51.6 (2.03)	6.4 (0.25)
	SS-HCS6-MT4	3/8	10	19	52.3 (2.06)	7.9 (0.31)
	SS-HCS8-MT8	1/2	1/2	22	57.4 (2.26)	9.7 (0.38)
Illustration	Ordering Number	Nominal Hose Size	Tube Adapter	F (Hex)	L	Min. Inside Diameter
		in.	in.(OD)	in.(mm)	in.(mm)	in.(mm)
卡套管转换接头 	SS-HCS2-FTD2	1/8	1/8	5/16	1.37 (34.8)	0.08 (2.0)
	SS-HCS2-FTD4		1/4	3/8	1.47 (37.3)	0.09 (2.3)
	SS-HCS4-FTD4	1/4	1/4	7/16	1.86 (47.2)	0.19 (4.8)
	SS-HCS4-FTD6		3/8	7/16	1.92 (48.8)	0.19 (4.8)
	SS-HCS5-FTD4	5/16	1/4	7/16	1.94 (49.3)	0.19 (4.8)
	SS-HCS6-FTD4	3/8	1/4	9/16	1.94 (49.3)	0.19 (4.8)
	SS-HCS6-FTD6		3/8	9/16	2.00 (50.8)	0.28 (7.1)
	SS-HCS6-FTD8		1/2	5/8	2.26 (57.4)	0.30 (7.6)
	SS-HCS8-FTD6	1/2	3/8	11/16	2.07 (52.6)	0.28 (7.1)
	SS-HCS8-FTD8		1/2	11/16	2.33 (52.6)	0.38 (9.7)
	SS-HCS12-FTD12	3/4	3/4	13/16	2.50 (63.5)	0.63 (16.0)
	SS-HCS16-FTD16	1	1	1 3/8	3.03 (77.0)	0.80 (20.3)

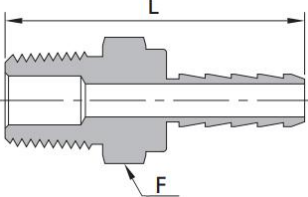
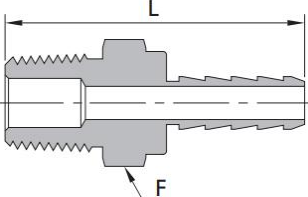
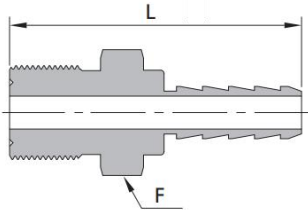
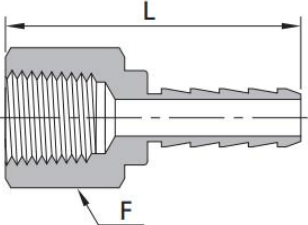
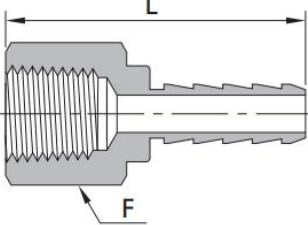
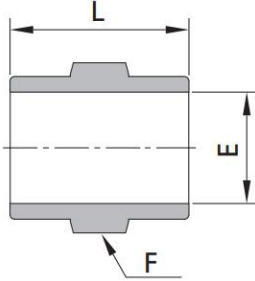
Illustration	Ordering Number	Nominal Hose Size	Male Thread	F (Hex)	L	Min. Inside Diameter
		in.	NPT	in.(mm)	in.(mm)	in.(mm)
Male Thread - NPT 	SS-HCS2-MN2	1/8	1/8	7/16	1.08 (27.4)	0.08 (2.0)
	SS-HCS2-MN4		1/4	9/16	1.26 (32.0)	0.08 (2.0)
	SS-HCS3-MN2	3/16	1/8	7/16	1.27 (32.2)	0.13 (3.3)
	SS-HCS2-MN4		1/4	9/16	1.45 (36.8)	0.13 (3.3)
	SS-HCS4-MN4	1/4	1/4	9/16	1.65 (41.9)	0.19 (4.8)
	SS-HCS4-MN6		3/8	11/16	1.66 (42.2)	0.19 (4.8)
	SS-HCS5-MN4	5/16	1/4	9/16	1.73 (43.9)	0.19 (4.8)
	SS-HCS5-MN6		3/8	11/16	1.74 (44.2)	0.19 (4.8)
	SS-HCS6-MN4	3/8	1/4	9/16	1.73 (43.9)	0.30 (7.6)
	SS-HCS6-MN6		3/8	11/16	1.74 (44.2)	0.30 (7.6)
	SS-HCS6-MN8		1/2	7/8	1.96 (49.8)	0.30 (7.6)
	SS-HCS8-MN4	1/2	1/4	11/16	1.80 (45.7)	0.30 (7.6)
	SS-HCS8-MN6		3/8	11/16	1.81 (46.0)	0.38 (9.7)
	SS-HCS8-MN8		1/2	7/8	2.03 (51.6)	0.38 (9.7)
	SS-HCS10-MN8	5/8	1/2	1 1/16	2.07 (52.6)	0.47 (11.9)
	SS-HCS10-MN12		3/4	1 1/16	2.07 (52.6)	0.50 (12.7)
	SS-HCS12-MN8	3/4	1/2	1 1/16	2.14 (54.4)	0.47 (11.9)
	SS-HCS12-MN12		3/4	1 1/16	2.43 (61.7)	0.63 (16.0)
	SS-HCS16-MN12	1	3/4	1 3/8	2.38 (60.5)	0.63 (16.0)
	SS-HCS16-MN16		1	1 3/8	2.57 (65.3)	0.88 (22.4)
Illustration	Ordering Number	Nominal Hose Size	Male Thread	F (Hex)	L	Min. Inside Diameter
		in.	BSPT	in.(mm)	in.(mm)	in.(mm)
Male Thread - BSPT 	SS-HCS2-MR2	1/8	1/8	7/16	1.08 (27.4)	0.08 (2.0)
	SS-HCS2-MR4		1/4	9/16	1.26 (32.0)	0.08 (2.0)
	SS-HCS3-MR2	3/16	1/8	7/16	1.27 (32.2)	0.13 (3.3)
	SS-HCS2-MR4		1/4	9/16	1.45 (36.8)	0.13 (3.3)
	SS-HCS4-MR4	1/4	1/4	9/16	1.65 (41.9)	0.19 (4.8)
	SS-HCS4-MR6		3/8	11/16	1.66 (42.2)	0.19 (4.8)
	SS-HCS5-MR4	5/16	1/4	9/16	1.73 (43.9)	0.19 (4.8)
	SS-HCS5-MR6		3/8	11/16	1.74 (44.2)	0.19 (4.8)
	SS-HCS6-MR4	3/8	1/4	9/16	1.73 (43.9)	0.30 (7.6)
	SS-HCS6-MR6		3/8	11/16	1.74 (44.2)	0.30 (7.6)
	SS-HCS6-MR8		1/2	7/8	1.96 (49.8)	0.30 (7.6)
	SS-HCS8-MR4	1/2	1/4	11/16	1.80 (45.7)	0.30 (7.6)
	SS-HCS8-MR6		3/8	11/16	1.81 (46.0)	0.38 (9.7)
	SS-HCS8-MR8		1/2	7/8	2.03 (51.6)	0.38 (9.7)
	SS-HCS10-MR8	5/8	1/2	1 1/16	2.07 (52.6)	0.47 (11.9)
	SS-HCS10-MR12		3/4	1 1/16	2.07 (52.6)	0.50 (12.7)
	SS-HCS12-MR8	3/4	1/2	1 1/16	2.14 (54.4)	0.47 (11.9)
	SS-HCS12-MR12		3/4	1 1/16	2.43 (61.7)	0.63 (16.0)
	SS-HCS16-MR12	1	3/4	1 3/8	2.38 (60.5)	0.63 (16.0)
	SS-HCS16-MR16		1	1 3/8	2.57 (65.3)	0.88 (22.4)

Illustration	Ordering Number	Nominal Hose Size	Male Thread	F (Hex)	L	Min. Inside Diameter
		in.	M	mm	in.(mm)	in.(mm)
Male Thread - Metric 	SS-HCS4-M10	1/4	M10×1	12	1.54 (39.6)	0.18 (4.6)
	SS-HCS4-M12		M12×1.5	14	1.59 (40.4)	0.18 (4.6)
	SS-HCS4-M14		M14×1.5	15	1.66 (42.2)	0.18 (4.6)
	SS-HCS5-M14	5/16	M14×1.5	15	1.74 (44.2)	0.19 (4.8)
	SS-HCS5-M16		M16×1.5	18	1.82 (46.2)	0.19 (4.8)
	SS-HCS6-M16	3/8	M16×1.5	18	1.82 (46.2)	0.31 (7.9)
	SS-HCS6-M18		M18×1.5	19	1.86 (47.2)	0.31 (7.9)
	SS-HCS8-M20	1/2	M20×1.5	22	1.98 (50.3)	0.35 (8.9)
	SS-HCS4-M22		M22×1.5	24	2.08 (52.8)	0.35 (8.9)
Illustration	Ordering Number	Nominal Hose Size	Female Thread	F (Hex)	L	Min. Inside Diameter
		in.	NPT	in.(mm)	in.(mm)	in.(mm)
Female Thread - NPT 	SS-HCS2-FN2	1/8	1/8	9/16	1.11 (28.2)	0.08 (2.0)
	SS-HCS2-FN4		1/4	3/4	1.26 (32.0)	0.08 (2.0)
	SS-HCS3-FN2	3/16	1/8	9/16	1.29 (32.8)	0.13 (3.3)
	SS-HCS2-FN4		1/4	3/4	1.44 (36.6)	0.13 (3.3)
	SS-HCS4-FN4	1/4	1/4	3/4	1.64 (41.7)	0.19 (4.8)
	SS-HCS4-FN6		3/8	7/8	1.71 (43.4)	0.19 (4.8)
	SS-HCS5-FN4	5/16	1/4	3/4	1.73 (43.9)	0.19 (4.8)
	SS-HCS5-FN6		3/8	7/8	1.82 (46.2)	0.19 (4.8)
	SS-HCS6-FN4	3/8	1/4	3/4	1.69 (42.9)	0.30 (7.6)
	SS-HCS6-FN6		3/8	7/8	1.78 (45.2)	0.30 (7.6)
	SS-HCS6-FN8		1/2	1 1/16	2.03 (51.6)	0.30 (7.6)
	SS-HCS8-FN8	1/2	1/2	1 1/16	2.13 (54.1)	0.38 (9.7)
Illustration	Ordering Number	Nominal Hose Size	Female Thread	F (Hex)	L	Min. Inside Diameter
		in.	BSPT	in.(mm)	in.(mm)	in.(mm)
Female Thread - BSPT 	SS-HCS2-FR2	1/8	1/8	9/16	1.11 (28.2)	0.08 (2.0)
	SS-HCS2-FR4		1/4	3/4	1.26 (32.0)	0.08 (2.0)
	SS-HCS3-FR2	3/16	1/8	9/16	1.29 (32.8)	0.13 (3.3)
	SS-HCS2-FR4		1/4	3/4	1.44 (36.6)	0.13 (3.3)
	SS-HCS4-FR4	1/4	1/4	3/4	1.64 (41.7)	0.19 (4.8)
	SS-HCS4-FR6		3/8	7/8	1.71 (43.4)	0.19 (4.8)
	SS-HCS5-FR4	5/16	1/4	3/4	1.73 (43.9)	0.19 (4.8)
	SS-HCS5-FR6		3/8	7/8	1.82 (46.2)	0.19 (4.8)
	SS-HCS6-FR4	3/8	1/4	3/4	1.69 (42.9)	0.30 (7.6)
	SS-HCS6-FR6		3/8	7/8	1.78 (45.2)	0.30 (7.6)
	SS-HCS6-FR8		1/2	1 1/16	2.03 (51.6)	0.30 (7.6)
	SS-HCS8-FR8	1/2	1/2	1 1/16	2.13 (54.1)	0.38 (9.7)

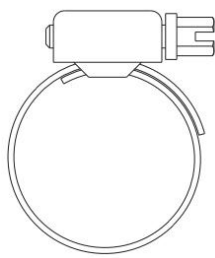
⦿ Note: 1. For dimensions not shown above, please contact ROKE Sales department or local agent.

Hose Connector Sleeves

Illustration	Ordering Number	Hose I.D.	Hose O.D.	Dimensions in.(mm)		
				F (Hex)	L	E
		in.	in.	in.	in.(mm)	in.(mm)
Sleeve 	AL-HCS2-4	1/8	1/4	3/8	0.40 (10.2)	0.26 (6.6)
	AL-HCS4-6	1/4	3/8	9/16	0.79 (20.1)	0.41 (10.4)
	AL-HCS4-7	1/4	7/16	5/8	0.79 (20.1)	0.46 (11.7)
	AL-HCS4-8	1/4	1/2	11/16	0.79 (20.1)	0.52 (13.2)
	AL-HCS5-9	5/16	7/16	5/8	0.87 (22.1)	0.48 (12.2)
	AL-HCS6-8	3/8	1/2	11/16	0.87 (22.1)	0.55 (14.0)
	AL-HCS6-9	3/8	9/16	3/4	0.87 (22.1)	0.61 (15.5)
	AL-HCS7-10	7/16	5/8	13/16	0.94 (23.9)	0.69 (17.5)
	AL-HCS8-11	1/2	11/16	7/8	0.94 (23.9)	0.76 (19.3)
	AL-HCS12-16	3/4	1	1 1/4	1.07 (27.2)	1.10 (27.9)

⊗ Material: Aluminum Reusable

Hose Clamps

Illustration	Ordering Number	Hose I.D.	Hose O.D.
		mm	mm
Clamp 	S4-HCP12	8	12
	S4-HCP16	10	16
	S4-HCP20	12	20
	S4-HCP25	16	25
	S4-HCP32	20	32
	S4-HCP40	25	40

⊗ Material: 304 SS

⊗ Reusable

⊗ For dimensions not shown above, please contact ROKE Sales department or local agent.

Terms and Definitions

Hose

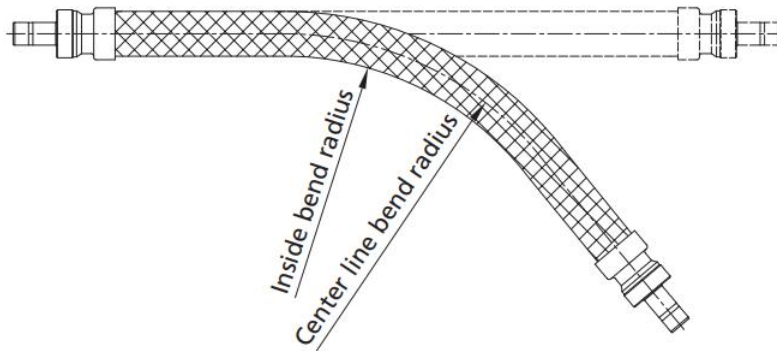
A multiple-layered flexible conduit through which fluid is conveyed from one point to another.

Nominal Hose Size

An approximation of the hose inside diameter.

Bend Radius

The radius of the bent section of a hose, measured to the center line or inside of the curved section.



Minimum Dynamic Bend Radius

The smallest bend radius that a hose is allowed to perform in applications where the hose undergoes dynamic bending and position changes.

Minimum Static Bend Radius

The smallest bend radius that a hose is allowed to perform in applications where the hose is stationary without any movement in any plane. The relative ease or difficulty of bending a non-pressurized hose assembly.

Flexibility Burst Pressure

The pressure at which leakage occurs in a laboratory burst test.

Permeation

The movement of a liquid, gas, or vapor through a solid. All materials are permeable to a certain degree and must be tested for application compatibility before installation.

End connection

End Connection

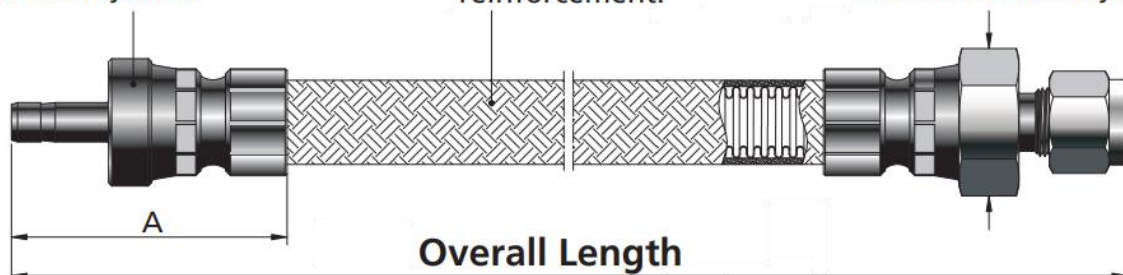
The fitting that is assembled onto each end of the hose to provide a means of installation into a fluid system.

Overbraid

A flexible, woven reinforcement.

Maximum Outside Dimension

The largest nominal outside dimension of the hose assembly.



Spring Guard

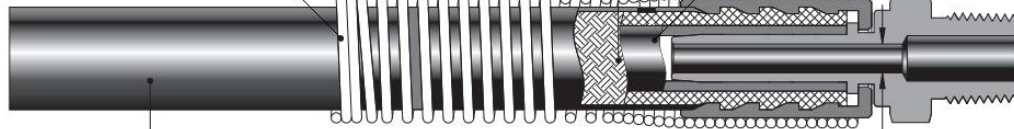
A helical metal spring used to protect the hose from abrasion overbending, and kinking.

Reinforce-ment

Material used to reinforce the core and increase its pressure-containing capacity.

Core

The hose's innermost material that comes into contact with the system media, often referred to as the wetted surface.

**Cover**

The hose's outermost material, used to protect the reinforcement and core from environmental conditions and wear.

Minimum Inside Diameter

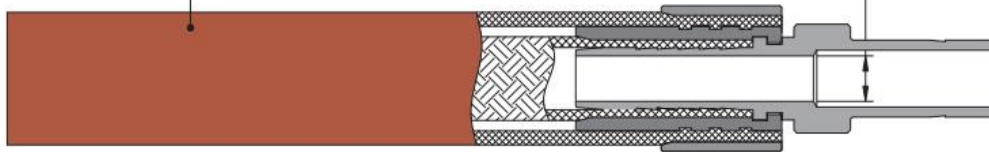
The smallest inside diameter of inner flow path of the hose assembly.

Fire Jacket

Woven fiberglass coated with specially compounded silicone rubber to provide insulation from internal system fluid temperature extremes.

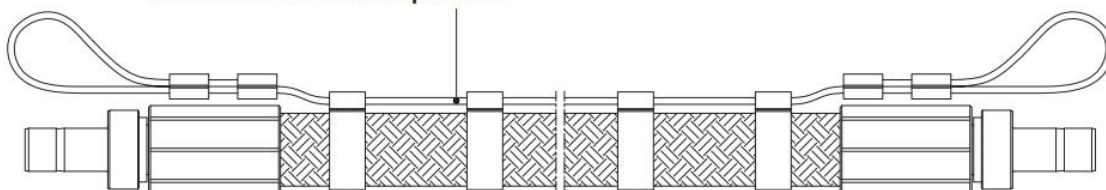
Minimum Inside Diameter

The smallest inside diameter of inner flow path of the hose assembly.

**Safety Cable**

Prevent hoses from whipping around and causing serious injuries in the event of fitting blow-off or hose burst.

The knot at each end of cable can be adjusted before being secured to fixed point.



Considerations for Selecting a Hose Assembly Solution

Temperature

Identify the minimum and maximum temperatures the hose assembly will be exposed to in the system media and environment.

Pressure

Identify the minimum and maximum pressures (or vacuum) within and outside the hose assembly. Identify the system media and the environment that the hose assembly will be exposed to. This will help determine the materials best suited to the application demands.

Material Movement

Confirm whether the hose assembly will be installed in dynamic applications as this will require different considerations than a static application.

Length

Determine the most likely route for installation of the hose, use this to identify required length. Note: Different types of hoses vary in measuring position. For hoses with pipe fittings, length loss due to threading into the mating fitting should be taken into account.



Cleanliness

Identify the cleanliness need.

End Connection

Identify the type of end connections that are most compatible with the system requirements. End connections differ in materials of construction and pressure ratings. Address space constraint concerns. Hose assemblies with elbows and union ball joints may help resolve space constraint issues.

Orientation Desired Flow

Consider desired flow. Hose connection size, core tube construction, and installation route may impact flow.

Additional Protection

Identify whether additional protection is necessary for the hose assemblies or surrounding systems.

Permeability

Nylon, PFA, polyethylene, PTFE, and rubber are permeable materials. Gases and vapors may migrate through cores of these materials. The permeation rate is affected by many factor variables.

Installation and Use Guide

! Warning

Product failure or improper use may pose a threat to your personal safety and property.

Inspection

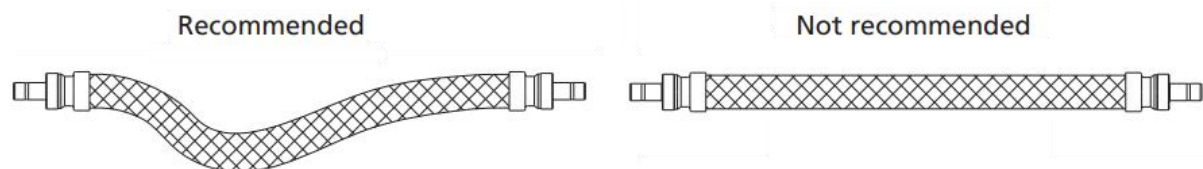
Inspect whether the hose length and layout are reasonable, and whether hose surface is free of defects and damage prior to installation. Establish an inspection schedule based on system application and replacement history.

Vibration

Evaluate the amount of system vibration when selecting a hose. Metal hose may not be appropriate for systems with constant or severe vibration.

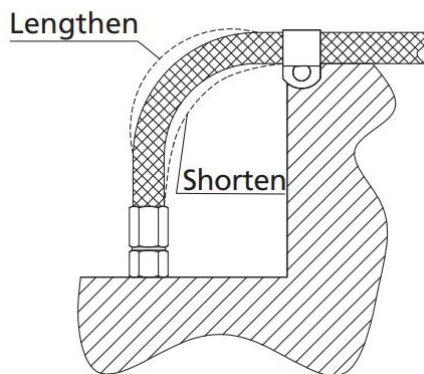
Length

Consider hose movement, system pressurization, and thermal expansion when identifying hose length. Installing hose that is not long enough to accommodate these factors may shorten hose life.



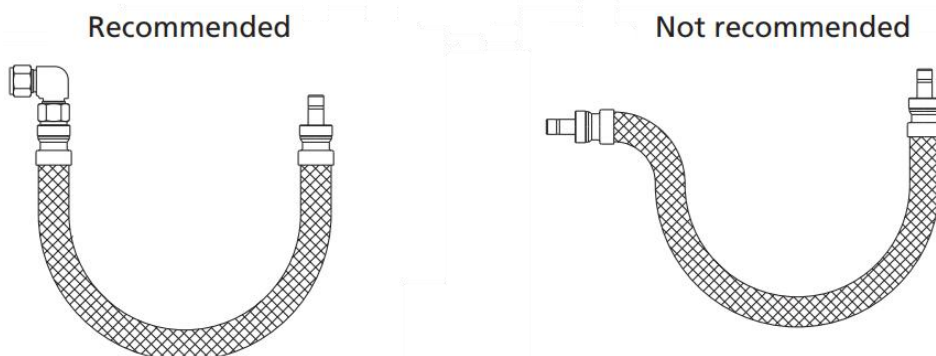
System Pressure Changes

Use sufficient hose length to accommodate system pressure changes. Do not connect high pressure hoses and low pressure hoses together.



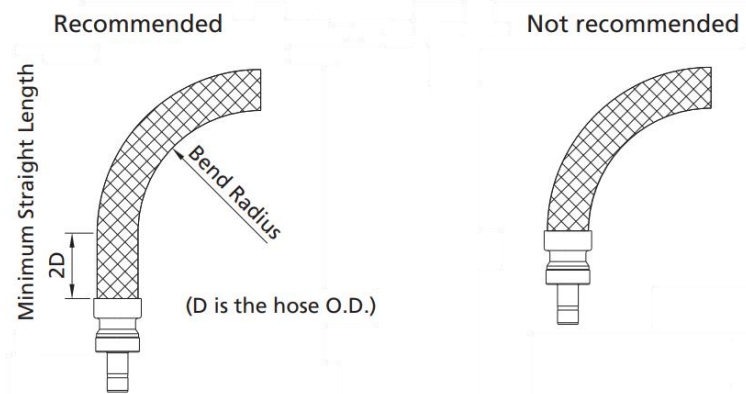
Hose Strain

Elbows and adapters can be used to relieve hose strain.

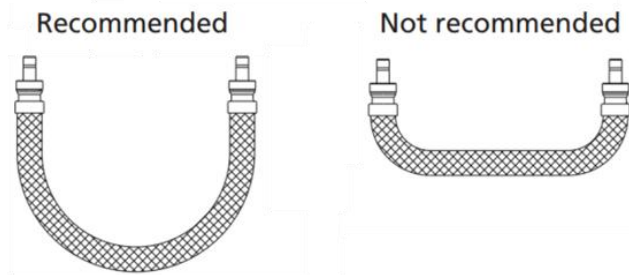


Minimum Bend Radius & Minimum Straight Length

Follow minimum bend radius requirements for your hose. Installing hose with smaller bends may kink hose and shorten hose life.

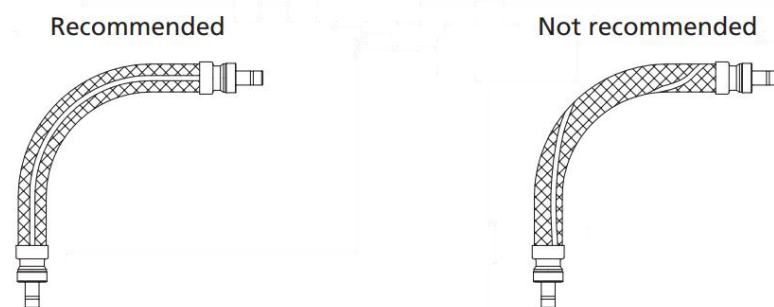


Maintain the minimum straight length for bent section, otherwise, hose rupture or leakage may result from bending too close to the hose/fitting connection.



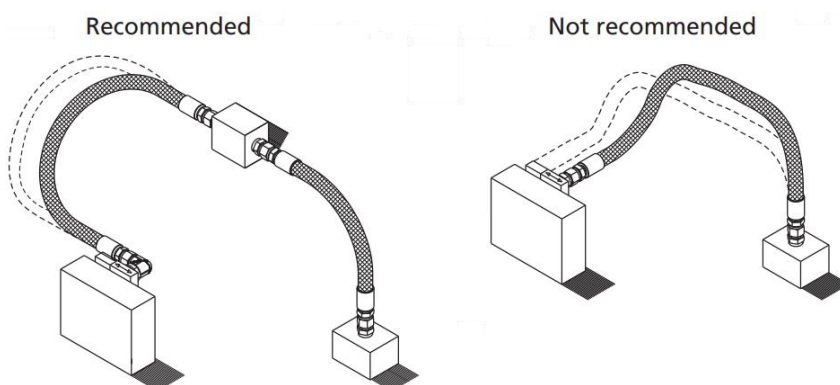
Twist Avoidance

Avoid twisting the hose assembly and causing stress that may affect its use.



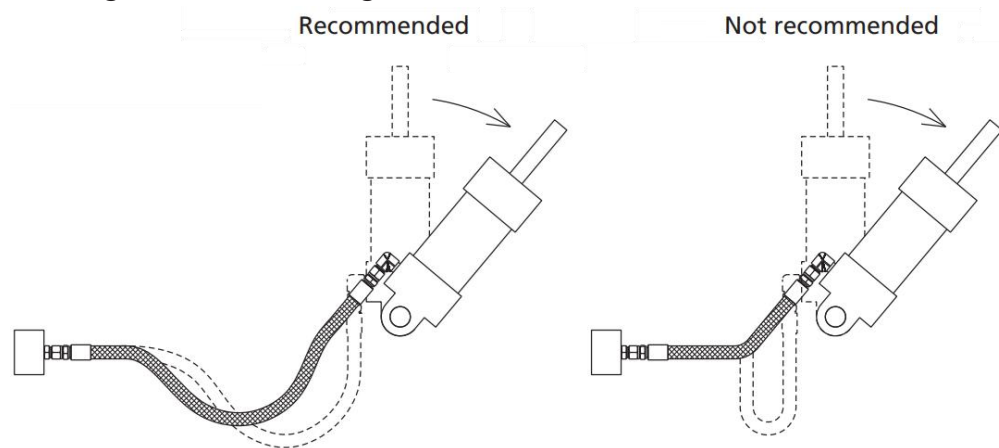
Bending in One Plane

Bend the hose in one plane only so as to avoid twisting. For a compound bend, use multiple hose pieces or other isolation methods.

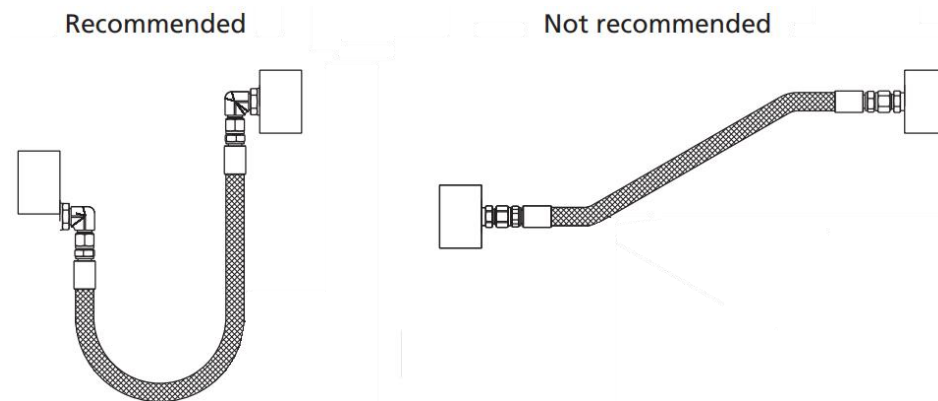


Motion Absorption

Distribute movement and prevent bends smaller than the hose's minimum bend radius by ensuring sufficient hose length.

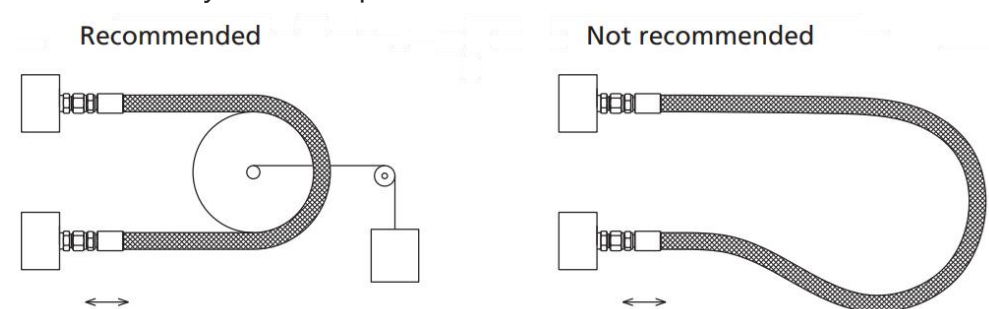


Elbow-connected hoses are better suited for vertical movement than hoses connected with straight fittings.



Necessary Limits and Protection Devices

Install necessary limits and protection devices to facilitate hose movement and avoid twisting.



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