

Hose Installation Manual

■ Inspection

Establish an inspection schedule base on system application and replacement records.

■ Static electricity

Static electricity can be generated by fluid passing through the hose. Select a hose with sufficient conductivity to ensure that the static electric charge is conducted to earth.

■ Vibration

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

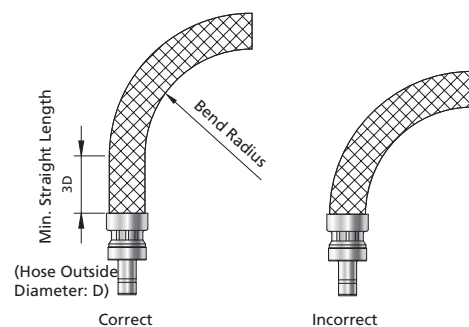
■ Length

Consider the movement of hose, system pressurization and thermal expansion when determining hose length. The length of installed hose that does not satisfy the requirements of aforesaid factors may shorten the hose life.

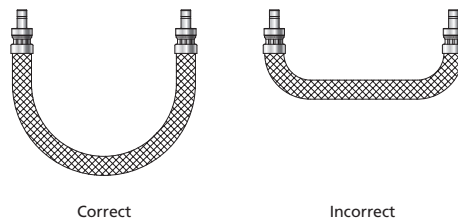
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■ Minimum Bend Radius

Follow minimum bend radius requirements of the hose. Installing hose with smaller bend radius may kink hose and shorten the hose life.

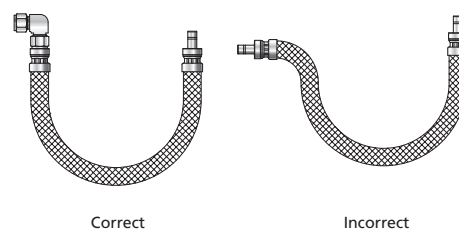


Bending too close to the end connection of hose may result to hose rupture or leakage.



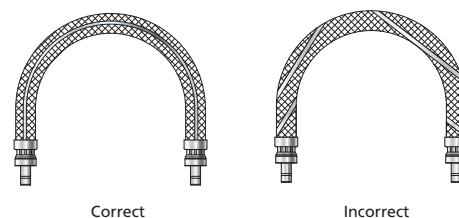
■ Hose Strain

Use the elbow and adapter to relieve the hose strain.



■ Avoid twist

Avoid twist of hose assembly generating the stress to affect the usage during the installation.



■ Minimum Bend Radius of Hose

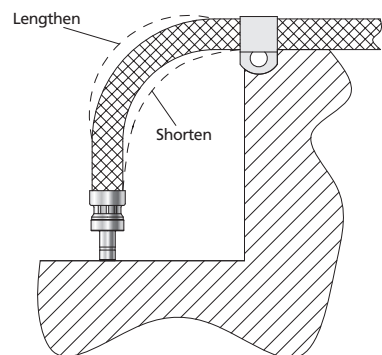
Hose Series	Min. Bend Radius		Hose Series	Min. Bend Radius	
	Static	Dynamic		Static	Dynamic
	in.(mm)	in.(mm)		in.(mm)	in.(mm)
MH4	2.25(57.2)	10.0(254)	MM4	0.75(19.0)	4.33(110)
MH6	3.00(76.2)	12.0(305)	MM6	0.87(22.1)	5.91(150)
MH8	4.50(114)	16.0(406)	MM8	1.04(26.4)	6.50(165)
MH12	6.00(152)	17.0(432)	MM12	1.61(40.9)	8.86(225)
MH16	6.75(171)	20.0(508)	MM16	1.89(48.0)	10.2(259)
MH20	8.86(225)	23.0(584)	MM20	2.16(54.9)	11.8(300)
MH24	11.0(280)	26.0(660)	MM24	2.33(59.2)	13.4(340)
MH32	13.8(350)	32.0(813)	MM32	3.10(78.7)	15.4(391)

Hose Series	Min. Bend Radius		Hose Series	Min. Bend Radius	
	Static	Dynamic		Static	Dynamic
	in.(mm)	in.(mm)		in.(mm)	in.(mm)
PS4	1.5(38.1)	2.0(50.8)	PLS4	1.5(38.1)	2.0(50.8)
PS6	3.5(88.9)	5.0(127)	PLS6	3.5(88.9)	5.0(127)
PS8	4.5(114)	6.0(152)	PLS8	4.5(114)	6.0(152)
PS12	6.0(152)	7.5(190)	PLS12	6.0(152)	7.5(190)
PS16	9.0(229)	11.3(287)	PS16	9.0(229)	11.3(287)

Hose Series (SAE 100R7)	Min. Bend Radius in.(mm)	Hose Series (SAE 100R8)	Min. Bend Radius in.(mm)
TH3	1.58(40)	TH3	2.00(50.8)
TH4	1.97(50)	TH4	2.00(50.8)
TH5	2.36(60)	TH6	2.50(63.5)
TH6	2.95(75)	TH8	4.00(102)
TH8	3.74(95)	TH12	6.50(165)
		TH16	10.00(254)

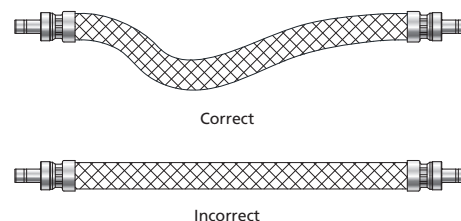
■ System Pressure Change

Sufficient long hose shall be used to adapt the changing system pressures. Do not connect the high pressure hose and low pressure hose.



■ Motion Absorption

Distribute movement by a hose of adequate length.



■ Cautions

- ⊙ Before installation, check whether the hose length and line layout are reasonable, and whether the surfaces of hose have defects and damages or not.
- ⊙ Be careful during the installation to avoid damaging hose.
- ⊙ Install necessary stop block and protector.
- ⊙ Use proper torque wrench to screw every connector tight.
- ⊙ Avoid personal injury during system inspection.
- ⊙ Select suitable hose assembly base on the working condition and the environment. Please check FITOK catalogue for more details.

⚠ Warnings

- ⊙ Please read the installation instructions before using FITOK products.
- ⊙ Failure or incorrect usage of the product may pose a danger to your personal or property.
- ⊙ Stop using the hose assembly immediately if the end connection is loose or perforation, rupture or leakage is found on the hose.

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