

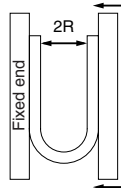
FEP Tubing (Fluoropolymer)

Metric Size

Series TH

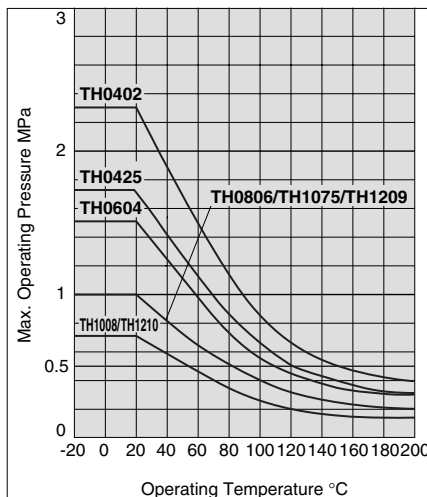


How to measure the minimum bending radius.



At a temperature of 20°C, bend the tubing into a U shape. Fix one end and gradually move the other end closer. Measure 2R at the point where the outside diameter's rate of change is 5%.

Max. Operating Pressure



Note) The maximum operating pressure varies dependant on the I.D. bore size even if the O.D. is the same.

Series

●-20m roll □-100m roll

Model	Metric size							
	TH0402	TH0425	TH0604	TH0806	TH1075	TH1008	TH1209	TH1210
Tubing O.D. (mm)	4	4	6	8	10	10	12	12
Tubing I.D. (mm)	2	2.5	4	6	7.5	8	9	10
Color	Symbol							
Translucent	N							
Red (Translucent)	R							
Blue (Translucent)	BU							
Black (Opaque)	B							
Inch nominal size		5/32"		5/16"				

Specifications

Fluid	Note 4)	Air, Water Note 1), Inert gas						
Applicable fittings	Note 2)	One-touch fittings: Series KQ, KJ Insert fittings: Series KF Fluoropolymer fittings: Series LQ Miniature fittings: Series M, MS (Hose nipple type)						
Max. operating pressure (MPa)	20°C	2.3	1.7	1.5	1	0.7	1	0.7
	100°C	0.85	0.6	0.55	0.4	0.25	0.4	0.25
	200°C	0.4	0.3	0.3	0.2	0.1	0.2	0.1
	Refer to below "Max. Operating Pressure."							
Min. bending radius (mm)	Note 3)	15	20	35	60	95	100	130
Operating temperature	Air, Inert gas: -20 to 200°C Water: 0 to 100°C (No freezing)							
Material	FEP (Fluorinated Ethylene Propylene Resin)							

Note 1) When using a fluid in liquid form, the surge pressure must not exceed the maximum operating pressure. A surge pressure higher than the maximum operating pressure can cause breakage of the fittings, or rupture of the tubing. Furthermore, an abnormal temperature increase due to adiabatic compression can also result in ruptured tubing.

Note 2) Do not use in locations where the FEP tubing will move.

Be sure to operate under the maximum operating pressure conditions using the lower maximum operating specification of either the tubing or fittings.

After long term use or under high temperatures, some fittings leakage may occur due to material deterioration with age. Perform periodic inspections, and if any leakage is detected, replace with a new product immediately. (Refer to maintenance part of "Tubing Precautions" on the Back page 2.)

Refer to Best Pneumatics catalog Vol. 15 for all other precautions.

For High Purity Fluoropolymer, refer to the precautions of CAT.ES70-17, "High Purity Fluoropolymer Fittings & Tubing."

Note 3) Minimum bending radius is measured as shown left as representative values.

Allow extra length when piping since the tubing may crush if bent more than the min. bending radius.

How to Order

Metric size

TH0604

N

20

Indication of tubing model

Color indication

Symbol	Color
N	Translucent
R	Red (Translucent)
BU	Blue (Translucent)
B	Black (Opaque)

Length per roll

Symbol	Roll size
20	20m roll
100 ^{Note)}	100m roll

Note) 100m roll is available with translucent (color indication: N) only.