

Flame Resistant (Equivalent to UL-94 Standard V-0) FR Three-layer Polyurethane Tubing

Series *TRTU*

RoHS



Outer layer

Flame resistant polyolefin
(Equivalent to UL-94 standard V-0)

Middle layer

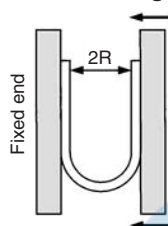
Aluminum laminated film

Inner tube

Polyurethane

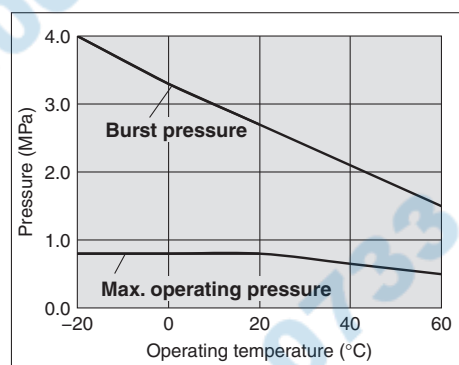
For general pneumatic and water piping in environments exposed to sparks from arc welding, etc.

How to measure the minimum bending radius



Bend the tube into the U-form at a temperature of 20°C. Fix one end and close loop gradually. Measure 2R when the deformed ratio of the tube diameter at bending reaches 5%.

Burst Pressure Characteristics Curve and Operating Pressure



Model

● — 20 m roll □ — 100 m reel

Model	TRTU0604	TRTU0805	TRTU1065	TRTU1208
Inner tube O.D. (mm)	6	8	10	12
Inner tube I.D. (mm)	4	5	6.5	8
Outer layer thickness (mm)	1	1	1	1

Note 3) Outer layer color	Black (B)	●	●	●	●
	White (W)	●	●	●	●
	Red (R)	●	●	●	●
	Blue (BU)	●	●	●	●
	Yellow (Y)	●	●	●	●
	Green (G)	●	●	●	●

Specifications

Fluid Note 1)		Air, Water			
Applicable fittings		FR one-touch fittings: Series KR-W2 Metal one-touch fittings: Series KQB2			
Max. operating pressure	At 20°C	0.8 MPa			
	At 40°C	0.65 MPa			
	At 60°C	0.5 MPa			
Burst pressure		Refer to the burst pressure characteristics curve.			
Min. bending radius (mm) Note 2)		50	60	70	80
Ambient and fluid temperature		-20 to +60°C Water: 0 to 40°C (No freezing)			
Material	Inner tube	Polyurethane			
	Middle layer	Aluminum laminated film			
	Outer layer	Polyolefin (Equivalent to UL-94 standard V-0)			

Note 1) Applicable for general industrial water. Please consult with SMC if using for the other kind of fluid. Also, the surge pressure must be under the maximum operating pressure.

If the surge pressure exceeds the maximum operating pressure, it will result in damage to fittings and tubes.

Note 2) The minimum bending radius is the representative value measured as shown in the left figure. Allow extra length when piping since the tube may be bent if used under the minimum bending radius.

Note 3) The color of all inner tubes is black.

How to Order

TRTU1065 B - 20

Tubing model

Model	Inner tube O.D. x I.D. (mm)
TRTU0604	6 x 4
TRTU0805	8 x 5
TRTU1065	10 x 6.5
TRTU1208	12 x 8

Color

Symbol	Color
B	Black
W	White
R	Red
BU	Blue
Y	Yellow
G	Green

Length per roll

Symbol	Length
20	20 m roll
100	100 m reel