

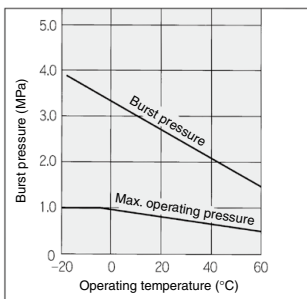
Polyurethane Tubing

Series TU/TIUB

RoHS

For general pneumatic tubing
Flexible
Polyurethane tubing
Additional 21 new colors.

Burst Pressure Characteristics Curve and Operating Pressure

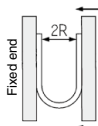


⚠️ Precautions

Be sure to read before handling.
Refer to front matter 56 for Safety Instructions and pages 13 to 16 for Fittings and Tubing Precautions.

⚠️ Caution

- Applicable for general industrial water. Please consult with SMC if using for the other kind of fluid. Also, the surge voltage 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.
- The value of the max. operating pressure is at a temperature of 20°C. Refer to the burst pressure characteristics curve for other temperatures. Furthermore, abnormal temperature rises caused by adiabatic compression may result in the burst of the tube.
- The value of the minimum bending radius is measured at the temperature of 20°C as shown in the figure below.



Bend the tube into U-form at a temperature of 20°C. Fix one end and close loop gradually. Measure 2R when the tube breaks or is crushed.

Model/Specifications

● — 20 m roll □ — 100 m roll
△ — Option ■ — Manufactured upon receipt of order (Please consult with SMC.)

Model	Tubing size												
	Metric size (Series TU)						Inch size (Series TIUB)						
	TU0212	TU0425	TU0604	TU0805	TU1065	TU1208	TU1610	TIUB01	TIUB05	TIUB07	TIUB11	TIUB13	
Tubing O.D. (mm)	2	4	6	8	10	12	16	3.18	4.76	6.35	9.53	12.7	
Tubing I.D. (mm)	1.2	2.5	4	5	6.5	8	10	2	3.18	4.23	6.35	8.46	
Black (B)	●	●	●	●	●	●	●	●	●	●	●	●	
White (W)	●	●	●	●	●	●	●	●	△	△	△	△	
Red (R)	●	●	●	●	●	●	●	●	△	△	△	△	
Blue (BU)	●	●	●	●	●	●	●	●	●	●	●	●	
Yellow (Y)	●	●	●	●	●	●	●	●	△	△	△	△	
Green (G)	●	●	●	●	●	●	●	●	△	△	△	△	
Clear (C)	●	●	●	●	●	●	●	●	△	△	△	△	
Orange (YR)	■	■	■	■	■	■	■	■	△	△	△	△	
Solid blue (BU1)	■	■	■	■	■	■	■	■	■	■	■	■	
Clear blue (BU2)	■	■	■	■	■	■	■	■	■	■	■	■	
Medium blue (BU3)	■	■	■	■	■	■	■	■	■	■	■	■	
Brown (BR1)	■	■	■	■	■	■	■	■	■	■	■	■	
Solid green (G1)	■	■	■	■	■	■	■	■	■	■	■	■	
Clear green (G2)	■	■	■	■	■	■	■	■	■	■	■	■	
Neon green (G3)	■	■	■	■	■	■	■	■	■	■	■	■	
Dark green (G4)	■	■	■	■	■	■	■	■	■	■	■	■	
Gray (GR1)	■	■	■	■	■	■	■	■	■	■	■	■	
Light gray (GR2)	■	■	■	■	■	■	■	■	■	■	■	■	
Neon pink (P1)	■	■	■	■	■	■	■	■	■	■	■	■	
Solid purple (PU1)	■	■	■	■	■	■	■	■	■	■	■	■	
Clear purple (PU2)	■	■	■	■	■	■	■	■	■	■	■	■	
Solid red (R1)	■	■	■	■	■	■	■	■	■	■	■	■	
Clear red (R2)	■	■	■	■	■	■	■	■	■	■	■	■	
Silver (S1)	■	■	■	■	■	■	■	■	■	■	■	■	
Solid yellow (Y1)	■	■	■	■	■	■	■	■	■	■	■	■	
Clear yellow (Y2)	■	■	■	■	■	■	■	■	■	■	■	■	
Neon yellow (Y3)	■	■	■	■	■	■	■	■	■	■	■	■	
Clear orange (YR1)	■	■	■	■	■	■	■	■	■	■	■	■	
Neon orange (YR2)	■	■	■	■	■	■	■	■	■	■	■	■	
									Nominal size (inch)				
									1/8"	3/16"	1/4"	3/8"	1/2"
									Nominal size (mm)				
									3.2				
Fluid	Air/Water												
Max. operating pressure at 20°C	0.8 MPa												
Burst pressure	Refer to the burst pressure characteristics curve.												
Applicable fittings	One-touch fittings, Insert fittings, Self-align fittings, Miniature fittings												
Min. bending radius (mm)	4	10	15	20	27	35	45	10	15	23	27	35	
Operating temperature	-20 to +60°C (Water: 0 to 40°C) (No freezing)												
Material	Polyurethane												