

Series 10-TU Polyurethane Tubing

RoHS

How to Order

For general pneumatic tubing
Flexible
Polyurethane tubing



10 - TU0425 BU - 20

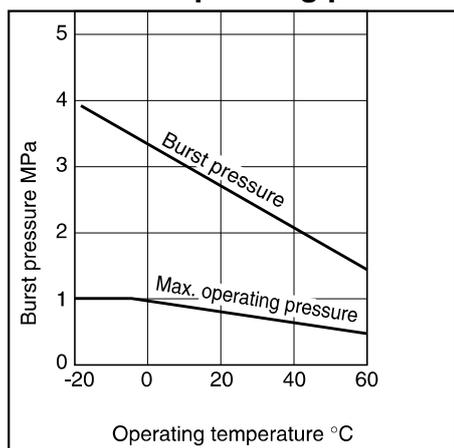
Clean series

Tubing model

Color
B — Black
W — White
R — Red
BU — Blue
Y — Yellow
G — Green
C — Clear
YR — Orange

Length per roll
20 — 20 m roll

Burst Pressure Characteristics Curve and Operating pressure



Model

● — 20 m roll

Model	Tubing size						
	Inch size (Series TIUB)	Metric size (Series TU)					
	10-TIUB01	10-TU0212	10-TU0425	10-TU0604	10-TU0805	10-TU1065	10-TU1208
O.D. (mm)	3.2	2	4	6	8	10	12
I.D. (mm)	2	1.2	2.5	4	5	6.5	8
Black (B)	●	●	●	●	●	●	●
White (W)	●	●	●	●	●	●	●
Red (R)	●	●	●	●	●	●	●
Blue (BU)	●	●	●	●	●	●	●
Yellow (Y)	●	●	●	●	●	●	●
Green (G)	●	●	●	●	●	●	●
Clear (C)	●	●	●	●	●	●	●
Orange (YR)	●	●	●	●	●	●	●

Specifications

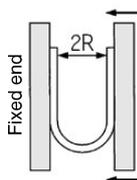
Fluid	Air, Water						
Max. operating pressure (20°C)	0.8 MPa						
Burst pressure	Refer to the burst pressure characteristics curve.						
Recommended fittings	Clean series fittings 10-KQ2, 10-KF, 10-KDM, 10-KG, 10-M, 10-MS, KP, KPQ, KPG						
Min. bending radius (mm)	10	4	15	20	27	35	
Operating temperature	-20 to 60°C, Water: 0 to 40°C (No freezing)						
Material	Polyurethane						
Cleanliness class (ISO class)	Class 3						

⚠ Precautions

Be sure to read this before handling. Refer to page 1382 for Safety Instructions and pages 1237 to 1240 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 on the right.



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.

Directional Control Valves

Air Cylinders

Rotary Actuators

Air Grippers

Air Preparation Equipment

Modular F. R.

Pressure Control Equipment

Fittings & Tubing

Flow Control Equipment

Pressure Switches/Pressure Sensors