

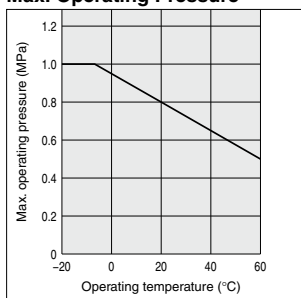
Polyurethane Tubing

TU/TIUB Series

RoHS

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

Max. Operating Pressure

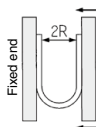


⚠️ Precautions

Be sure to read this before handling the products.
Refer to page 11 for safety instructions and pages 14 to 18 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.
- Abnormal temperature rise caused by adiabatic compression may result in the tube bursting.
- 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.

Note 1) The operating vacuum pressure varies depending on the applicable fitting, so refer to the fitting specifications for details.

Model/Specifications

● - 20 m roll □ - 100 m roll (TU1610 is reel) ◇ - 100 m roll, 200 m roll
△ - Option ■ - Manufactured upon receipt of order (Please consult with SMC.)

Model	Tubing size											
	Metric size (TU series)						Inch size (TIUB series)					
Model	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)	■	■	■	■	■	■	■	■	■	■	■	■

3/32"

5/16"

Nominal size (inch)
1/8" 3/16" 1/4" 3/8" 1/2"

Nominal size (mm)
3.2

Fluid	Air/Water											
Max. operating pressure (MPa)	20°C	0.8										
	40°C	0.65										
	60°C	0.5										
Operating vacuum pressure (kPa) ¹⁾	-101.3											
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											

How to Order

TU0425 **BU** - **20**

Tubing model

Length per roll

Symbol	Length
20	20 m roll
100	100 m roll
200	200 m roll

Color

Symbol	Color	Symbol	Color
B	Black (Opaque)	GR1	Gray (Opaque)
W	White (Opaque)	GR2	Light gray (Opaque)
R	Red (Translucent)	P1	Neon pink (Opaque)
BU	Blue (Translucent)	PU1	Solid purple (Opaque)
Y	Yellow (Opaque)	PU2	Clear purple (Translucent)
G	Green (Opaque)	R1	Solid red (Opaque)
C	Clear (Material color)	R2	Clear red (Translucent)
YR	Orange (Opaque)	S1	Silver (Opaque)
BU1	Solid blue (Opaque)	Y1	Solid yellow (Opaque)
BU2	Clear blue (Translucent)	Y2	Clear yellow (Translucent)
BU3	Medium blue (Opaque)	Y3	Neon yellow (Opaque)
BR1	Brown (Opaque)	YR1	Clear orange (Translucent)
G1	Solid green (Opaque)	YR2	Neon orange (Opaque)
G2	Clear green (Translucent)		
G3	Neon green (Opaque)		
G4	Dark green (Opaque)		

Made to Order

(Please contact SMC for specifications in detail, dimensions, delivery and specifications other than those mentioned above.)

100 m reel	Metric size and Inch size: Suffix "-X3" to the end of part number. Ex.) TU0425R-100-X3
Longer length reel	Metric size: Suffix "-X3" to the end of part number. Ex.) TU0425G-500-X3
20 m roll	Inch size: Suffix "-X4" to the end of part number. Ex.) TIUB07W-20-X4
Compatible with the Food Sanitation Law	Metric size: Suffix "-X217" to the end of part number. Ex.) TU0425BU-20-X217
FDA (Food and Drug Administration) In compliance with the EU No10/2011 dissolution test	Metric size: Suffix "-X214" to the end of part number. Ex.) TU0425BU-20-X214

Made to Order Availability

Part no.	Length	Model	TU0425	TU0604	TU0805	TU1065	TU1208	TIUB01	TIUB05	TIUB07	TIUB11	TIUB13	Color
X3	100 m reel		○	○	○	○	○	○	○	○	○	○	Black, White, Red, Blue, Yellow, Green, Clear, Orange
	200 m reel			○									
	400 m reel			○									
	500 m reel		○										
X4	20 m roll								○	○	○	○	Red, White, Yellow, Green, Clear, Orange
	20 m roll		○	○	○	○	○						Black, White, Blue, Clear
X214*	20 m roll		○	○	○	○	○						Black, White, Red, Blue, Yellow, Green, Clear, Orange
	20 m roll		○	○	○	○	○						

* Note that the model number is not printed on the tube body.

Multi-core, Multi-color Specification Flat Tubing	Refer to page 684 for details.
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