

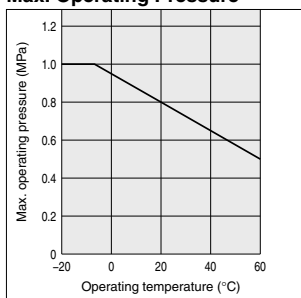
# Polyurethane Tubing

# TU/TIUB Series

RoHS

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

### Max. Operating Pressure

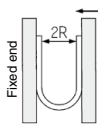


### ⚠️ Precautions

Be sure to read this before handling the products.  
Refer to back page 50 for Safety Instructions and pages 13 to 17 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.

### 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)					
	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	20°C	0.8
(MPa)	40°C	0.65
	60°C	0.5
Applicable fittings	One-touch fittings, Insert fittings, Self-align fittings, Miniature fittings	
Min. bending radius (mm)	4	10
Operating temperature	15	20
	27	35
Material	45	10
	15	23
	27	35
Operating temperature	-20 to +60°C (Water: 0 to 40°C) (No freezing)	
Material	Polyurethane	

- KQ2
- KQB2
- KS
- KX
- KM
- KF
- M
- H/DL
- L/LL
- KC
- KK
- KK130
- DM
- KDM
- KB
- KR
- KA
- KQG2
- KG
- KFG2
- MS
- KKA
- KP
- LQ
- MQR
- T
- IDK

# TU/TIUB Series

## How to Order

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

Tubing model

Length per roll

Symbol	Length
<b>20</b>	20 m roll
<b>100</b>	100 m roll

Color

Symbol	Color	Symbol	Color
<b>B</b>	Black (Opaque)	<b>GR1</b>	Gray (Opaque)
<b>W</b>	White (Opaque)	<b>GR2</b>	Light gray (Opaque)
<b>R</b>	Red (Translucent)	<b>P1</b>	Neon pink (Opaque)
<b>BU</b>	Blue (Translucent)	<b>PU1</b>	Solid purple (Opaque)
<b>Y</b>	Yellow (Opaque)	<b>PU2</b>	Clear purple (Translucent)
<b>G</b>	Green (Opaque)	<b>R1</b>	Solid red (Opaque)
<b>C</b>	Clear (Material color)	<b>R2</b>	Clear red (Translucent)
<b>YR</b>	Orange (Opaque)	<b>S1</b>	Silver (Opaque)
<b>BU1</b>	Solid blue (Opaque)	<b>Y1</b>	Solid yellow (Opaque)
<b>BU2</b>	Clear blue (Translucent)	<b>Y2</b>	Clear yellow (Translucent)
<b>BU3</b>	Medium blue (Opaque)	<b>Y3</b>	Neon yellow (Opaque)
<b>BR1</b>	Brown (Opaque)	<b>YR1</b>	Clear orange (Translucent)
<b>G1</b>	Solid green (Opaque)	<b>YR2</b>	Neon orange (Opaque)
<b>G2</b>	Clear green (Translucent)		
<b>G3</b>	Neon green (Opaque)		
<b>G4</b>	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
<b>X3</b>	100 m reel		○	○	○	○	○	○	○	○	○	○	Black, White, Red, Blue, Yellow, Green, Clear, Orange
	200 m reel			○									
	400 m reel			○									
	500 m reel		○										
<b>X4</b>	20 m roll								○	○	○	○	Red, White, Yellow, Green, Clear, Orange
	20 m roll		○	○	○	○	○						Black, White, Blue, Clear
<b>X214*</b>	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 467 for details.