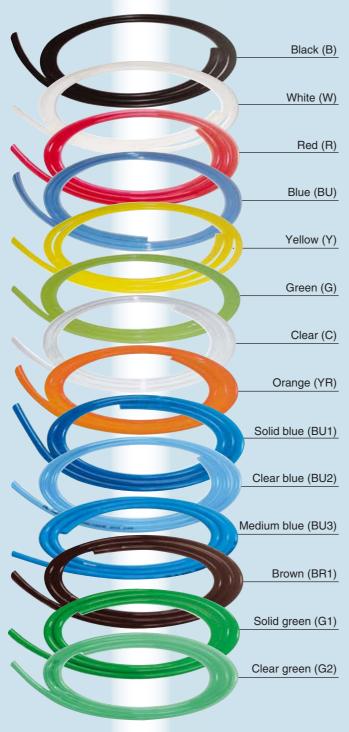
Polyurethane Tubing

29 Colour Variations



- ø2 to ø16 (Metric size)
- 1/8" to 1/2" (Inch size)
- For general pneumatic tubing
- Flexible









	Metric size (Series TU)							Inch size (Series TIUB)				
Model	TU0212	TU0425	TU0604	TU0805	TU1065	TU1208	TU1610	TIUB01	TIUB05	TIUB07	TIUB11	TIUB13
Tubing O.D. (mm)	2	4 (5/32")	6	8 (5/16")	10	12	16	1/8"	3/16"	1/4"	3/8"	1/2"
Tubing I.D. (mm)	1.2	2.5 (0.098")	4	5 (0.197")	6.5	8	10	0.079" (5/64")	0.125" (1/8")	0.167"	0.25" (1/4")	0.333"
Min. bending radius (mm)	4	10	15	20	27	35	45	10	15	23	27	35

Symbol	Golour								
В	Black								
w	White		<u> </u>	\rightarrow		—			
R	Red		<u> </u>	\rightarrow		<u> </u>			
BU	Blue		<u> </u>	$\overline{}$					
Y	Yellow		<u> </u>			<u> </u>			
G	Green		<u> </u>	$\overline{}$		<u> </u>			
С	Clear		<u> </u>	$\stackrel{\checkmark}{\longrightarrow}$		—			
YR	Orange	-	<u> </u>	—		•			
BU1	Solid blue	-		•		•			
BU2	Clear blue			\rightarrow	<u> </u>	•	—	•	-
BU3	Medium blue	-		lack		•	—	•	
BR1	Brown			\rightarrow		•	——	•	
G1	Solid green	-		\rightarrow	<u> </u>	♦	—	•	-
G2	Clear green			\rightarrow		•	—	•	-
G3	Neon green	-		\rightarrow		•	—	•	•
G4	Dark green			lack		• •	—	• •	-
GR1	Grey			•		• •	 • 	• •	-
GR2	Light grey			•	<u> </u>	•	 	• •	-
P1	Neon pink			•		•	 	•	-
PU1	Solid purple			-		•	—	•	-
PU2	Clear purple	-		•	•	•	—		-
Ríl	Solid red			•	•	•	—		•
R2	Clear red	-		•	•	•	—	•	-
S1	Silver	-		•	•	•	—	•	-
Y1	Solid yellow	-		•		•	—	•	-
Y2	Clear yellow			•	<u> </u>	•	—	•	-
Y3	Neon yellow		•	•	•	•			
YR1	Clear orange			•	•	•			
YR2	Neon orange			•		•			
	Length per roll (m)	20		20,	100, 200¹)		20, 100	20	

Note 1) <>: 100 m roll, 200 m roll

Specifications

Fluid	Air, Water					
Max. operating pressure at 20 °C	0.8 MPa					
Burst pressure	Refer to the burst pressure characteristics curve.					
Operating temperature	-20 to 60 °C (Water: 0 to 40 °C) (No freezing)					

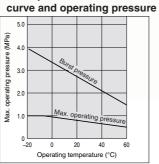
Please contact SMC for other fluids.

• Min. bending radius



Bend the tubing into a U shape at a temperature of 20 °C. Then with one side fixed, gradually close the other side and measure 2R at the point where the tubing folds or flattens, etc.

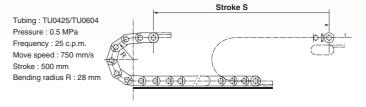
· Burst pressure characteristics



• Tubing durability (Reference value)

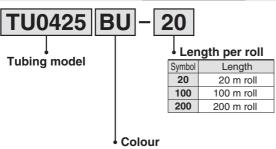
This value is a representative one from measurement and is not the guaranteed tube durability.

The value of tubing durability under the conditions below is 10 million times (Condition: With grease on tubing surface)





How to Order



Symbol	Colour					
В	Black (Opaque)					
W	White (Translucent)					
R	Red (Translucent)					
BU	Blue (Opaque)					
Υ	Yellow (Opaque)					
G	Green (Opaque)					
С	Clear (Material colour)					
YR	Orange (Opaque)					
BU1	Solid blue (Opaque)					
BU2	Clear blue (Translucent)					
BU3	Medium blue (Opaque)					
BR1	Brown (Opaque)					
G1	Solid green (Opaque)					
G2	Clear green (Translucent)					
G3	Neon green (Opaque)					
G4	Dark green (Opaque)					

Symbol	Colour						
GR1	Grey (Opaque)						
GR2	Light grey (Opaque)						
P1	Neon pink (Opaque)						
PU1	Solid purple (Opaque)						
PU2	Clear purple (Translucent)						
R1	Solid red (Opaque)						
R2	Clear red (Translucent)						
S1	Silver (Opaque)						
Y1	Solid yellow (Opaque)						
Y2	Clear yellow (Translucent)						
Y3	Neon yellow (Opaque)						
YR1	Clear orange (Translucent)						
YR2	Neon orange (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
20 m roll

Metric size: Suffix "-X3" to the end of part number. Ex.) TU0425G-500-X3 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

Made to Order Availability

Part no.	Length Model	TU0425*	TU0604*	TU0805*	TU1065*	TU1208*	TIUB01*	TIUB05*	TIUB07*	TIUB11*	TIUB13*	Colour
	100 m reel	0	0	0	0	0	0	0	0	0	0	Digale White Dad
хз	200 m reel			0								Black, White, Red, Blue, Yellow, Green,
Λ3	400 m reel		0									Clear, Orange
	500 m reel	0										Clear, Orange
X4	20 m roll							0	0	0	0	Red, White, Yellow, Green, Clear, Orange
X217*	20 m roll	0	0	0	0	0						Black, White, Blue, Clear

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

APrecautions

⚠ Caution

- 1. 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.
- 2. 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.
- 3. The value of the minimum bending radius is measured at the temperature of 20 °C as shown in the figure below.



⚠ Safety Instructions

These safety instructions are intended to prevent hazardous situations and/or equipment damage. These instructions indicate the level of potential hazard with the labels of "Caution," "Warning" or "Danger." They are all important notes for safety and must be followed in addition to International Standards (ISO/IEC)*1), and other safety regulations.

Caution indicates a hazard with a low level of risk which, if not avoided, could result in minor or moderate

⚠ Warning:

Warning indicates a hazard with a medium level of risk which, if not avoided, could result in death or serious

injury.

Danger indicates a hazard with a high level of risk Danger: which, if not avoided, will result in death or serious injury. IEC 60204-1: Safety of machinery - Electrical equipment of machines. (Part 1: General requirements) ISO 10218-1: Manipulating industrial robots - Safety.

*1) ISO 4414: Pneumatic fluid power - General rules relating to systems.

ISO 4413: Hydraulic fluid power – General rules relating to systems.

⚠ Warning

1. The compatibility of the product is the responsibility of the person who designs the equipment or decides its specifications.

Since the product specified here is used under various operating conditions, its compatibility with specific equipment must be decided by the person who designs the equipment or decides its specifications based on necessary analysis and test results. The expected performance and safety assurance of the equipment will be the responsibility of the person who has determined its compatibility with the product. This person should also continuously review all specifications of the product referring to its latest catalogue information, with a view to giving due consideration to any possibility of equipment failure when configuring the equipment.

2. Only personnel with appropriate training should operate machinery and equipment.

The product specified here may become unsafe if handled incorrectly. The assembly, operation and maintenance of machines or equipment including our products must be performed by an operator who is appropriately trained and experienced

- 3.Do not service or attempt to remove product machinery/equipment until safety is confirmed.
 - 1. The inspection and maintenance of machinery/equipment should only be performed after measures to prevent falling or runaway of the driven objects have been
 - 2. When the product is to be removed, confirm that the safety measures as mentioned above are implemented and the power from any appropriate source is cut, and read and understand the specific product precautions of all relevant products carefully.
 - 3. Before machinery/equipment is restarted, take measures to prevent unexpected operation and malfunction
- 4. Contact SMC beforehand and take special consideration of safety measures if the product is to be used in any of the following conditions.
 - 1. Conditions and environments outside of the given specifications, or use outdoors or in a place exposed to direct sunlight.
 - 2. Installation on equipment in conjunction with atomic energy, railways, air navigation, space, shipping, vehicles, military, medical treatment, combustion and recreation, or equipment in contact with food and beverages, emergency stop circuits, clutch and brake circuits in press applications, safety equipment or other applications unsuitable for the standard specifications described in the product catalogue
- 3. An application which could have negative effects on people, property, or animals requiring special safety analysis.
- 4. Use in an interlock circuit, which requires the provision of double interlock for possible failure by using a mechanical protective function, and periodical checks to confirm

Limited warranty and Disclaimer/ Compliance Requirements

The product used is subject to the following "Limited warranty and Disclaimer" and "Compliance Requirements".

Read and accept them before using the product.

Limited warranty and Disclaimer

- 1. The warranty period of the product is 1 year in service or 1.5 years after the product is delivered, wichever is first.*2) Also, the product may have specified durability, running distance or replacement parts. Please consult your nearest sales branch
- 2. For any failure or damage reported within the warranty period which is clearly our responsibility, a replacement product or necessary parts will be provided. This limited warranty applies only to our product independently, and not to any other damage incurred due to the failure of the product.
- 3. Prior to using SMC products, please read and understand the warranty terms and disclaimers noted in the specified catalogue for the particular
 - *2) Vacuum pads are excluded from this 1 year warranty. A vacuum pad is a consumable part, so it is warranted for a year after it is delivered. Also, even within the warranty period, the wear of a product due to the use of the vacuum pad or failure due to the deterioration of rubber material are not covered by the limited

Compliance Requirements

- 1. The use of SMC products with production equipment for the manufacture of weapons of mass destruction (WMD) or any other weapon is strictly prohibited.
- 2. The exports of SMC products or technology from one country to another are governed by the relevant security laws and regulations of the countries involved in the transaction. Prior to the shipment of a SMC product to another country, assure that all local rules governing that export are known and followed.

∕∴Caution

1. The product is provided for use in manufacturing industries.

The product herein described is basically provided for peaceful use in manufacturing

If considering using the product in other industries, consult SMC beforehand and exchange specifications or a contract if necessary.

If anything is unclear, contact your nearest sales branch.

∕∴Caution

SMC products are not intended for use as instruments for legal metrology.

Measurement instruments that SMC manufactures or sells have not been qualified by type approval tests relevant to the metrology (measurement) laws of each country. Therefore, SMC products cannot be used for business or certification ordained by the metrology (measurement) laws of each country.

/!\ Safety Instructions

Be sure to read "Handling Precautions for SMC Products" (M-E03-3) before using.

SMC Corporation (Europe)

Austria ** +43 (0)2262622800 www.smc.at office@smc.at Lithuania **2**+370 5 2308118 info@smclt.lt www.smclt.lt Belgium ***** +32 (0)33551464 www.smcpneumatics.be info@smcpneumatics.be Netherlands *****+31 (0)205318888 www.smcpneumatics.nl info@smcpneumatics.nl ***** +359 (0)2807670 Bulgaria www.smc.bg office@smc.bg Norway **2** +47 67129020 www.smc-norge.no post@smc-norge.no ***** +385 (0)13707288 Croatia Poland **2**+48 222119600 office@smc.hr office@smc.pl www.smc.hr www.smc.pl postpt@smc.smces.es Czech Republic ***** +420 541424611 www.smc.cz office@smc.cz **Portugal 2**+351 226166570 www.smc.eu Denmark **2** +45 70252900 smc@smcdk.com Romania **2** +40 213205111 www.smcdk.com www.smcromania.ro smcromania@smcromania.ro Estonia *****+372 6510370 www.smcpneumatics.ee smc@smcpneumatics.ee Russia *****+7 8127185445 info@smc-pneumatik.ru www.smc-pneumatik.ru ₹ +421 (0)413213212 www.smc.sk Finland *****+358 207513513 smcfi@smc fi Slovakia office@smc.sk www.smc.fi France *****+33 (0)164761000 www.smc-france.fr info@smc-france.fr Slovenia *****+386 (0)73885412 www.smc.si office@smc.si Germany *****+49 (0)61034020 www.smc.de info@smc.de Spain *****+34 902184100 www.smc.eu post@smc.smces.es ***** +30 210 2717265 www.smchellas.gr sales@smchellas.gr Sweden **2** +46 (0)86031200 post@smc.nu Greece www.smc.nu Switzerland *****+41 (0)523963131 Hungary ***** +36 23511390 www.smc.hu office@smc.hu www.smc.ch info@smc.ch Turkey Ireland **2** +353 (0)14039000 www.smcpneumatics.ie sales@smcpneumatics.ie **2** +90 212 489 0 440 www.smcpnomatik.com.tr info@smcpnomatik.com.tr mailbox@smcitalia.it Italy *****+39 0292711 www.smcitalia.it UK ** +44 (0)845 121 5122 www.smcpneumatics.co.uk sales@smcpneumatics.co.uk Latvia *****+371 67817700 info@smclv.lv www.smclv.lv