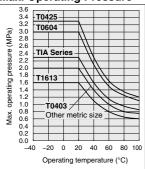
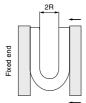
Nylon Tubing T/TIA Series RoHS

For general pneumatic tubing, Nylon tubing

Max. Operating Pressure



How to measure the minimum bending radius.



At a temperature of 20°C, bend the tubing into a U shape. Fix one end and gradually move the other end closer. Measure 2R at the point where the outside diameter's rate of change is 10%

⚠ 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 Precau-I tions.

∕ Caution

- 1. Applicable for general industrial water. Please consult with SMC if using other kinds of fluid. Surge pressure must be under the max. operating pressure. If the surge pressure exceeds the maximum operating pressure, it will result in damage to fittings and tubes
- 2. Please exercise caution when using this item in a clean room. There is a possibility of plasticizer and other materials precipitating on the tube surface and detracting from the cleanliness level of the room.

Model

20 m roll □ — 100 m roll (T1613 is reel.)

							- 20	III I OII		100 111	1011 (1	10131	3 1001.		
	Tubing size														
	Metric size (T series)								Inch size (TIA series)						
Model	T0425	T0403	T0604	T0645	T0806	T1075	T1209	T1613	TIA01	TIA05	TIA07	TIA11	TIA13		
Tubing O.D. (mm)	4	4	6	6	8	10	12	16	3.18	4.76	6.35	9.53	12.7		
Tubing I.D. (mm)	2.5	3	4	4.5	6	7.5	9	13	2.18	3.48	4.57	6.99	9.56		
Black (B)	 	•	<u></u>	•		<u></u>	-		-	+	<u></u>	•	<u></u>		
White (W)	<u> </u>	•	<u></u>	•		<u></u>	<u></u>	<u></u>	•	•	•	•	•		
Red (R)	•		+	+	•	•	+			+			+		
Blue (BU)	+		+	+	•	•	+	+		+		_	+		
Yellow (Y)	<u> </u>		•	+	•	•	•					-	_		
Green (G)	•		•	+	•	•	•						+		
]				1			Nominal size (inch)						
	5/32"								1/8" 3/16" 1/4" 3/8" 1/2"						
									Nominal size (mm						
Specifications	3								3.2						
Fluid and Applicable	Finish AleAN-4							Fitting: One-touch fittings, Insert fittings,							

Fluid and Applicable fitting size Note 1) Note 2)		Fluid: Air/Water								Fitting: One-touch fittings, Insert fittings, Self-align fittings, Miniature fittings						
		Fluid:	Turbin	Fitting: Insert fittings												
	20°C or less	3.3	2.0	3.0	2.0	2.0	2.0	2.0	0	1.6	2.3	2.3	2.	3	2.3	2.3
Max. operating	40°C	2.3	1.4	2.1	1.4	1.4	1.4	1.4	4	1.1	1.6	1.6	1.	6	1.6	1.6
	60°C	1.65	1.0	1.5	1.0	1.0	1.0	1.0	0	8.0	1.15	1.1	5 1.	15	1.15	1.15
(MPa)	80°C	1.35	0.8	1.25	0.8	0.8	0.8	0.8	8	0.65	0.95	0.9	5 0.	95	0.95	0.95
	100°C	1.2	0.75	1.1	0.75	0.75	0.75	0.	75	0.6	0.85	0.8	5 0.	85	0.85	0.85
Min. bending	Min. bending radius	13	20	24	30	40	50	6	0	100	15	25	і з	0	50	65
(mm) Note 4)	Bending value (Reference)	10	15	18	23	30	40	4	5	75	12	20) 2	:3	40	48
Operating temp	Air/Oil: -40 to +100°C, Water: 0 to +70°C (No freezing)															
Material							Nylo	n 12	2							

Note 1) Be sure to operate under the maximum operating pressure conditions using the lower maximum operating specification of either the tubing or fittings.

Note 2) Mount an inner sleeve when using metal One-touch fittings in high-temperature environments of 60°C or more. Use self-align fittings at a temperature of 60°C or less.

Note 3) • After long-term use, nylon materials may harden.
• Be sure to use with static piping.

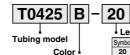
- After removing a tube from the fitting, be sure to replace it with a brand new tube. Please refrain from reusing tubes.
 When using an oil other than turbine oil class 1 (ISO VG32), the deterioration of nylon materials may be accelerated due to the added agents.

Note 4) The minimum bending radius is the representative value measured as shown in the left figure.

• Use a tube above the recommended minimum bending radius.

- The tubing may be bent if used under the recommended minimum bending radius.
- Therefore, refer to the refraction value and make sure that the tubing is not bent or flattened.
- Please note that the refraction value is not warranted because of the value when 2R is measured by the method in the left figure if the tubing is bent or flattened, etc.

How to Order



Symbol	Color
В	Black (Opaque)
W	White (Material color)
R	Red (Opaque)
BU	Blue (Opaque)
Y	Yellow (Opaque)
G	Green (Opaque)





Made to Order

100 m reel

longer length reel

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

Longer length reel	Metric
20 m roll	Inch s
Reinforced corrugated	

Metric size and Inch size except ø16: Suffix "-X3" to the end of part number. Ex.) T0425R-100-X3 Metric size: Suffix "-X3" to the end of part number. Ex.) T0425G-500-X3

nch size: Suffix "-X4" to the end of part number. Ex.) TIA01BU-20-X4

morroize. Gallix X4 to the ord of part humber. Ext, Throtbo 20 X4

cardboard specification ø6, Black and White only: Suffix "-X64" to the end of part number. Ex.) T0604B-500-X64

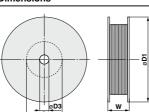
Made to Order Availability

Part no.	Length	T0425*	T0604*	T0806*	T1075*	T1209*	TIA01*	TIA05*	TIA07*	TIA11*	TIA13*	Color
хз	100 m reel	0	0	0	0	0	0	0	0	0	0	Black, White,
	150 m reel				0							Red, Blue,
Λ3	200 m reel			0								Yellow, Green
	500 m reel	0	0									reliow, dreen
X4	20 m roll						0	0	0	0	0	Red, Blue, Yellow, Green
X64	250 m reel		0									Black, White
	300 m reel			0								Black
	500 m reel		0									Black, White
	•					•	•					

Reinforced corrugated cardboard specification: Longer length reel/-X64

Dimensions





ŧ	Dimensions													
	Model	ø D1	ø D2	ø D3	w	Weight (kg)	Color							
5	T0604 -250-X64	475	200	52	120	5.1	Black							
	T0604□-500-X64	475	200	52	200	9.4	White							
ય	T0806B-300-X64	475	200	52	200	8.1	Black							

KQ2

KQB2

KS KX

KF

M H/DL L/LL

KC

KK

KK130

DM

KDM KB

KR

KA

KQG2

KG KFG2

MS

KKA

KP LQ

MQR

IDK