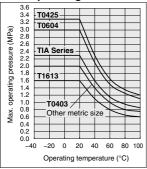
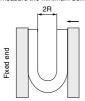
Nylon Tubing T/TIA Series RoHS

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.)

													,
		Tubing size											
		Metric size (T series) Inch size (TIA se										serie	s)
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>	+	•	•	+
White (W)	- -	•	<u></u>	•	<u></u>	<u></u>	<u></u>	<u></u>	•	•	•	•	•
Red (R)	+		+		•	•	•			-	+		
Blue (BU)	+		+	_	•	•	+			+	+		+
Yellow (Y)	•		•		•	•	•				+		
Green (G)	•		•		•	•	•						
]				1				Nomin	al size	(inch)
	5/32"]			5/16"]			1/8 "	3/16"	1/4 "	3/8"	1/2"
									Nominal size (mm)				
Specifications	:								3.2				
Fluid and Applicable	Fluid: Air/Mater Fitting: One-touch fittings, Insert fit								ert fitti	ngs,			

Fluid and Applicable fitting size Note 1) Note 2)		Fluid	: Air/W	/ater					Fitting: One-touch fittings, Insert fittings, Self-align fittings, Miniature fittings								
		Fluid: Turbine oil class 1 (ISO VG32) Note 3) Fitting: Insert fittings															
	20°C or less	3.3	2.0	3.0	2.0	2.0	2.0	2.0) 1	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	1 1	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	1.15	1.15	1.15	1.15	1.15		
(MPa)	80°C	1.35	0.8	1.25	0.8	0.8	0.8	3.0	3 (0.65	0.95	0.95	0.95	0.95	0.95		
	100°C	1.2	0.75	1.1	0.75	0.75	0.75	0.7	⁷ 5 (0.6	0.85	0.85	0.85	0.85	0.85		
Min. bending	Min. bending radius	13	20	24	30	40	50	6	0	100	15	25	30	50	65		
(mm) Note 4)	Bending value (Reference)	10	15	18	23	30	40	4	5	75	12	20	23	40	48		
Operating temp			Air/O	l: –40	to +10	0°C, ۱	Nate	er: 0) to +	70°C	(No fr	eezin	3)				
Material						١	lylo	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.

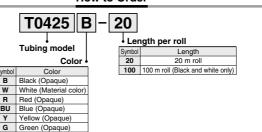
- After removing a tube from the fitting, be sure to replace it with a brand new tube. Please refrain from reusing tubes.
- When using an oil other than turbine oil class 1 (ISO VG32), the deterioration of nylon materials may be accelerated due to the added agents.

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



GENTLE AUTOMATIC SOLUTION SDN BHD

Made to Order

longer length reel

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

100 m reel	Metric size and Inch size except ø16: Suffix "-X3" to the end of part number. Ex.) T0425R-100-X3
Longer length reel	Metric size: Suffix "-X3" to the end of part number. Ex.) T0425G-500-X3
20 m roll	Inch size: Suffix "-X4" to the end of part number. Ex.) TIA01BU-20-X4

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

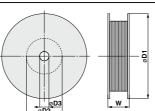
Made to Order Availability

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

Reinforced corrugated cardboard specification: Longer length reel/-X64

Dimensions





Dimensions											
	Model	ø D1	ø D2	ø D3	w	Weight (kg)	Color				
	T0604 -250-X64	475	200	52	120	5.1	Black,				
	T0604 -500-X64	475	200	52	200	9.4	White				

KQ2

KQB2

KM

KF M

> H/DL L/LL

KC

KK

KK130

DM KDM

KB

KR

KA

KQG2

KG KFG2

MS

KKA KP

LQ

MQR

IDK