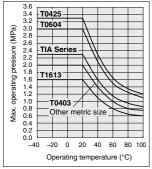
# Nylon Tubing T/TIA Series

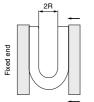
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## For general pneumatic tubing, Nylon tubing

#### 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 Precautions.

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- 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.
- 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							•	<u> </u>	m roll	□ —	100 m	roll (T	1613 i	s reel.
							Tu	bing s	ize					
					ic size							e (TIA		
Mod	lel	T0425	T0403	T0604	T0645	T0806	T1075	T1209	T1613	TIA01	TIA05	TIA07	TIA11	TIA1:
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)		-•	-	-•	-•	-•	-•	-•	-•		-+-	-+-		-+
White (W)		-•-	-	-•	-+-	-•-	-•	-•	-•			-+-	-	-+
Red (R)		-		-+-	_	-		-			-	_		-
Blue (BU)		┝┿─		-	-	-		-+-			-	-		+
Yellow (Y)		┣	_	-+-		-+-		-+-	_	_		+	_	+
Green (G)	+		-+-		-+-	-+-	-+-						+	
								Nominal size (inch)						
		5/32"				<sup>5∕</sup> 16 "				1⁄8"	3∕16″	1⁄4 "	3⁄8"	1⁄2"
										Nominal				
Specific	ations	;								size (mm 3.2				
Fluid and Applicable fitting size Note 1) Note 2)		Fluid: Air/Water Fitting: One-touch fittings, Insert fittings, Self-align fittings, Miniature fittings,												
													iature f	ittings
-	0000						32) Not		tting: I				0.0	0.0
Max. operating	20°C or less	2.3	2.0 1.4	3.0 2.1	2.0 1.4	2.0	2.0 1.4	2.0 1.4	1.6	2.3 1.6	2.3	2.3	2.3	2.3
pressure Note 1) (MPa)	40°C	2.3		2.1	1.4	1.4	1.4	1.4	0.8	1.15		1.15		1.15
	80°C	1.35		1.25	0.8	0.8	0.8	0.8	0.65	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	0.85	0.85		0.85
Min. bending	Min. bending radius	13	20	24	30	40	50	60	100	15	25	30	50	65
radius (mm) Note 4)	Bending value (Reference)	10	15	18	23	30	40	45	75	12	20	23	40	48
Operating temp		· _ ,	Air/Oil	-40 t	0 +10	0°C, V	Vater:	0 to +	70°C	No fre	ezing	)		
Material								lylon 1			,		,	
late 1) Re ours to opera														

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) Mound 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.

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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.

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				Ho	w to	Orde	er
		<b>T0</b> 4	125	В	]-[	20	
		Tubing	l model			Ler Symbol	ngth per roll
_			Col			20	Length 20 m roll
	Symbol	C	Color			100	100 m roll (Black and white or
	в	Black (O	paque)				
	W	White (M	laterial co	olor)			
	R	Red (Opa	aque)				
	BU	Blue (Op	aque)				
	Y	Yellow (C	Opaque)				
. [	G	Green (C	Dpaque)				

### Nylon Tubing **T/TIA** Series

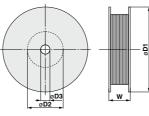
### Made to Order

(Please contact SMC for specifications in detail, dimensions, delivery and specifications other than those mentioned above.														
100 m	reel	Metric size and Inch size 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 i	roll	Inch size: Suffix "-X4" to the end of part number. Ex.) TIA01BU-20-X4												
	inforced corrugated robust and White only: Suffix "-X64" to the end of part number. Ex.) T0604B-500-X64								KQ2					
longer ler Made 1										KQB2				
Part no.	Length	T0425 *	T0604*	T0806 *	T1075*	T1209*	TIA01 *	TIA05*	TIA07*	TIA11*	TIA13*	Color	KS	
	100 m reel	0	0	0	0	0	0	0	0	0	0	Black, White,	KX	
хз	150 m reel				0							Red, Blue,	KM	
~5	200 m reel			0								Yellow, Green	<b>NIN</b>	
	500 m reel	0	0									reliew, creen		
X4	20 m roll						0	0	0	0	0	Red, Blue, Yellow, Green	KF	
	250 m reel		0									Black, White Black		
X64	300 m reel			0									M	
	500 m reel		0									Black, White		
													H/DI	

### Reinforced corrugated cardboard specification: Longer length reel/-X64



#### Dimensions



#### Dimensions Weight Model øD1 øD2 ø**D3** w Color (kg) T0604 -250-X64 475 200 52 120 5.1 Black, T0604 - 200 X64 170 200 T0604 - 500-X64 475 200 T0806B-300-X64 475 200 9.4 White 52 200 52 200 8.1 Black

KF
М
H/DL L/LL
KC
KK
KK130
DM
KDM
KB
KR
KA
KQG2
KG
KFG2
MS
KKA
KP
LQ
MQR
T
IDK