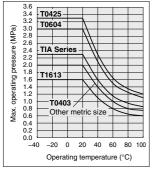
Nylon Tubing T/TIA Series

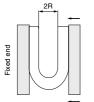
Madal

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.

- 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)		+		-+-		-+-	-+-	-+-						+
											Nomin	al size	e (inch)
	5/32"							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)		Fitting: One-touch fittings, Insert fittings,												
		Fluid: All/Water Self-align fittings, Miniature fittings Fluid: Turbine oil class 1 (ISO VG32) Note 3) Fitting: Insert fittings												
-	0000												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
	40°C	2.3		2.1	1.4	1.4	1.4	1.4	0.8	1.15		1.15		1.15
(MPa)	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	erature Note 1)		·	Air/Oil	-40 t	0 +10	0°C, V	Vater:	0 to +	70°C	No fre	ezing)	
Material		Air/Oil: -40 to +100°C, Water: 0 to +70°C (No freezing) Nylon 12												
Note 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.

@SMC

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.

nlv)

	How to Order									
		T0 4	125	В]-[20				
	Tubing model					Ler Symbol	igth per roll			
_		Color				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)							
	Υ	Yellow (C	Opaque)							
. [G	Green (C	Dpaque)							

Nylon Tubing **T/TIA** Series

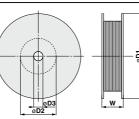
Made to Order

				(PI	ease contact S	SMC for specif	lications in de	ail, dimension	is, delivery and	d specification	s other than th	nose 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											
cardboar		ø6, Black and White only: Suffix "-X64" to the end of part number. Ex.) T0604B-500-X64									KQ2		
longer ler Made 1	•	er Availability KQB2								KQB2			
Part no.	Length	T0425*	T0604 *	T0806 *	T1075*	T1209*	TIA01 *	TIA05 *	TIA07*	TIA11*	TIA13*	Color	KS KX
	100 m reel	0	0	0	0	0	0	0	0	0	0	Black, White,	KX
хз	150 m reel				0							Red. Blue.	КМ
~3	200 m reel			0								Yellow, Green	NIVI
	500 m reel	0	0									reliow, creen	
X4	20 m roll						0	0	0	0	Ó	Red, Blue, Yellow, Green	KF
X64	250 m reel		0									Black, White	
A04	500 m reel		0									Didox, White	M

Reinforced corrugated cardboard specification: Longer length reel/-X64



Dimensions



Dimensions

-t	Dimensions						
	Model	ø D1	ø D2	ø D3	w	Weight (kg)	Color
	T0604 -250-X64	475	200	52	120	5.1	Black,
<u>6</u>	T0604□-500-X64	475	200	52	200	9.4	White
Ø							

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