POLYURETHANE TUBE

Application

- Used for industrial robots and pneumatic piping.
- Used for various applications by functions.

Feature

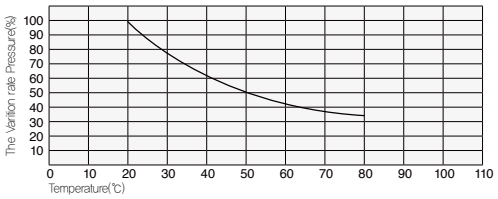
- Higher flexibility than nylon(PA) helps working achievement.
- Higher flexibility in low temperature.

Specification

Fluid	Air(No other gases or liquids)	
Working Pressure Range	0~150PSI	0~9Kgf/㎠(0~900kPa)
Negative Pressure	-29.5 in Hg	-750mmHg(10Torr)
Temperature Range	32~140℉	-15~60℃

Working Pressure

- Temperature limits of tube : -40℃~80℃
- Normal Pressure : Control normal pressure within 1/3 of tube burst pressure.



Product Code System

U-08-50-B UC-08-50-05-Y

① ② ③ ④ ① ② ③ ⑤ ④

① Type

②③ Tube Dia(ØD)

	Metric Size									
Code	0320	0420	0425	0640	0850	0855	1065	1280	1290	1611
Outer Dia	Ø3	Ø4	Ø4	Ø6	Ø8	Ø8	Ø10	Ø12	Ø12	Ø16
Inner Dia	Ø2	Ø2	Ø2.5	Ø4	Ø5	Ø5.5	Ø6.5	Ø8	Ø9	Ø11

	Inch Size						
Code	1/8	5/32	3/16	1/4	5/16	3/8	1/2
Outer Dia	Ø1/8	Ø5/32	Ø3/16	Ø1/4	Ø5/16	Ø3/8	Ø1/2

④ Color

	C	BK	R	BU	Y	G
Code	Clear	Black	Red	Blue	Yellow	Green

	W	O	AQ	Silver	Metal
Code	White	Orange	Aqua blue	Silver	Metal

⑤ Length(m)



Common Precautions of Tube Series

Never fail to check the following.

⚠ WARNING

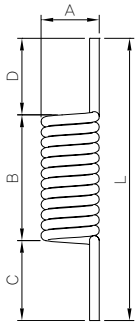
1. Never use for applications other than air.
   Using for applications other than air, it causes water leakage by breakage or crack of tube from chemical reaction.
2. Installing the tube near heater, it causes exposition of tube from heat.
3. Scarring the tube with a gimlet or a pin, it causes breakage of tube.
4. Twisting, screwing or bending the tube, it causes breakage or leakage of air.
5. Never use tube in a place of rising spatter.

⚠ CAUTION

1. Be sure to keep the radius of curvature of tube per size.
2. Be sure to leave a margin for unexpected additional length of tube when piping.
3. Be sure to check that the section of tube is at a right angle(90°) or tube is oval, not round.

UC





MODEL [OUT–IN] Metric size (mm)

CODE	MODEL	O.D mm	I.D mm	Length (m)	Working (m)	A	B	C	D	L	Color									
											C	BK	R	BU	Y	G	O	SILVER	METAL	AQ
41404000420B	UC–0402–15	4	2	1.5	1.2	25.3	78	70	70	218	o	o	o	o	o	o	o	o	o	o
41404000420E	UC–0402–30	4	2	3	2.4	25.3	167	70	70	307	o	o	o	o	o	o	o	o	o	o
41404000420H	UC–0402–45	4	2	4.5	3.6	25.3	257	70	70	397	o	o	o	o	o	o	o	o	o	o
41404000640B	UC–0604–15	6	4	1.5	1.2	42	69	80	80	229	o	o	o	o	o	o	o	o	o	o
41404000640E	UC–0604–30	6	4	3	2.4	42	150	80	80	310	o	o	o	o	o	o	o	o	o	o
41404000640H	UC–0604–45	6	4	4.5	3.6	42	228	80	80	388	o	o	o	o	o	o	o	o	o	o
41404000850F	UC–0805–35	8	5	3.5	2.8	50	200	90	90	380	o	o	o	o	o	o	o	o	o	o
41404000850I	UC–0805–50	8	5	5	4	50	291	90	90	471	o	o	o	o	o	o	o	o	o	o
41404000850N	UC–0805–75	8	5	7.5	6	50	443	90	90	623	o	o	o	o	o	o	o	o	o	o
41404000850S	UC–0805–100	8	5	10	8	50	594	90	90	774	o	o	o	o	o	o	o	o	o	o
41404001065F	UC–1065–35	10	6.5	3.5	2.8	62.7	199	100	100	399	o	o	o	o	o	o	o	o	o	o
41404001065I	UC–1065–50	10	6.5	5	4	62.7	290	100	100	490	o	o	o	o	o	o	o	o	o	o
41404001065N	UC–1065–75	10	6.5	7.5	6	62.7	441	100	100	641	o	o	o	o	o	o	o	o	o	o
41404001065S	UC–1065–100	10	6.5	10	8	62.7	592	100	100	792	o	o	o	o	o	o	o	o	o	o
41404001280F	UC–1208–35	12	8	3.5	2.8	84.5	174	100	100	374	o	o	o	o	o	o	o	o	o	o
41404001280I	UC–1208–50	12	8	5	4	84.5	253	100	100	453	o	o	o	o	o	o	o	o	o	o
41404001280N	UC–1208–75	12	8	7.5	6	84.5	385	100	100	585	o	o	o	o	o	o	o	o	o	o
41404001280S	UC–1208–100	12	8	10	8	84.5	517	100	100	717	o	o	o	o	o	o	o	o	o	o