

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/cm ² (0~900kPa)
Negative Pressure	-29.50 in Hg	-750mmHg(10Torr)
Temperature Range	32~140° F	-15~60° C

Product Code System

① U - 08 - 50 - B ① UC - 08 - 50 - 05-Y

② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨ ⑩

① Type

②③ Tube Dia(∅D)

Code	Metric Size									
	0320	0420	0425	0640	0850	0855	1065	1280	1290	1611
Outer Dia	∅3	∅4	∅4	∅6	∅8	∅8	∅10	∅12	∅12	∅16
Inner Dia	∅2	∅2	∅2.5	∅4	∅5	∅5.5	∅6.5	∅8	∅9	∅11

Code	Inch Size							
	1/8	5/32	3/16	1/4	5/16	3/8	1/2	5/8
Outer Dia	∅1/8	∅5/32	∅3/16	∅1/4	∅5/16	∅3/8	∅1/2	∅5/8

④ Color

Color	C	BK	R	Bu	Y	G	W	O
Color	Clear	Black	Red	Blue	Yellow	Green	White	Orange

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.

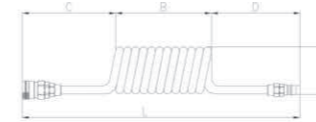
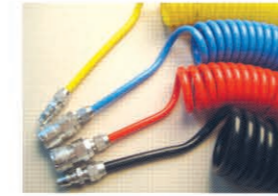
⚠ CAUTION

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

Polyurethane Tube



AC

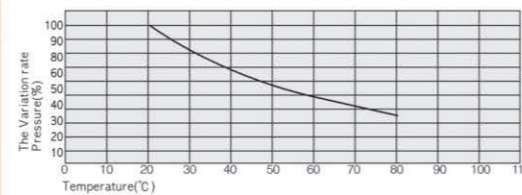


MODEL [OUT-IN] Metric size

MODEL	O.D mm	I.D mm	Length (m)	Working (m)	A	B	C	D	L	Color							
										C	BK	R	BU	Y	G	O	
AC 0805-50	8	5	5	4	52.5	78	131	123	546	°	°	°	°	°	°	°	
AC 0805-75	8	5	7.5	6	52.5	167	131	123	698	°	°	°	°	°	°	°	
AC 0805-100	8	5	10	8	52.5	257	131	123	849	°	°	°	°	°	°	°	
AC 1065-50	10	6.5	5	4	65.2	69	142	134	567	°	°	°	°	°	°	°	
AC 1065-75	10	6.5	7.5	6	65.2	150	142	134	718	°	°	°	°	°	°	°	
AC 1065-100	10	6.5	10	8	65.2	228	142	134	869	°	°	°	°	°	°	°	
AC 1208-50	12	8	5	4	87	200	143	135	532	°	°	°	°	°	°	°	
AC 1208-75	12	8	7.5	6	87	291	143	135	664	°	°	°	°	°	°	°	
AC 1208-100	12	8	10	8	87	443	143	135	796	°	°	°	°	°	°	°	

Working Pressure

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



U



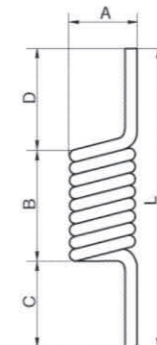
MODEL [OUT-IN] Metric size

MODEL	Outer Dia mm	Inner Dia mm	Packing Unit (m)	The radius of curvature (mm)	Burst pressure (kg/cm ²)	W.G (g/m)	Color							
							C	BK	R	BU	Y	G	W	O
U-03020	3	2	200	8	30	7	°	°	°	°	°	°	°	°
U-04020	4	2	200	10	30	9	°	°	°	°	°	°	°	°
U-04025	4	2.5	200	10	30	9	°	°	°	°	°	°	°	°
U-06040	6	4	100	15	30	19	°	°	°	°	°	°	°	°
U-08050	8	5	100	24	30	36	°	°	°	°	°	°	°	°
U-08055	8	5.5	100	24	30	36	°	°	°	°	°	°	°	°
U-08060	8	6	100	24	30	36	°	°	°	°	°	°	°	°
U-10065	10	6.5	100	30	30	54	°	°	°	°	°	°	°	°
U-12080	12	8	100	36	30	74	°	°	°	°	°	°	°	°
U-12090	12	9	100	36	30	74	°	°	°	°	°	°	°	°
U-16110	16	11	50	36	30	128	°	°	°	°	°	°	°	°

MODEL [OUT-IN] Inch Size

MODEL	Outer Dia mm	Inner Dia mm	Packing Unit (m)	The radius of curvature (mm)	Burst pressure (kg/cm ²)	W.G (g/m)	Color							
							C	BK	R	BU	Y	G	W	O
U 1/8-1.6	3.17	1.6	200	8	30	7	°	°	°	°	°	°	°	°
U 1/8-2.0	3.17	2	200	8	30	7	°	°	°	°	°	°	°	°
U 5/32-2.0	3.97	2	200	10	30	9	°	°	°	°	°	°	°	°
U 5/32-2.5	3.97	2.5	200	10	30	9	°	°	°	°	°	°	°	°
U 3/16-3.2	4.76	3.2	100	12	30	13	°	°	°	°	°	°	°	°
U 1/4-4.2	6.35	4.2	100	15	30	22	°	°	°	°	°	°	°	°
U 5/16-5.0	7.94	5	100	24	30	36	°	°	°	°	°	°	°	°
U 3/8-6.4	9.52	6.4	100	30	30	53	°	°	°	°	°	°	°	°
U 1/2-8.5	12.7	8.5	100	36	30	85	°	°	°	°	°	°	°	°

UC



MODEL [OUT-IN] Metric size

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

MODEL [OUT-IN] Inch Size

MODEL	O.D mm	I.D mm	Length (m)	Working (m)	A	B	C	D	L	Color							
										C	BK	R	BU	Y	G	O	
UC1/8-2.0-1	3.17	2	1	0.8	23.7	49	70	70	189	°	°	°	°	°	°	°	
UC1/8-2.0-2	3.17	2	2	1.6	23.7	97	70	70	237	°	°	°	°	°	°	°	
UC1/8-2.0-5	3.17	2	5	4	23.7	243	70	70	383	°	°	°	°	°	°	°	
UC5/32-2.5-2	3.97	2	2	5.6	25.3	407	70	70	547	°	°	°	°	°	°	°	
UC5/32-2.5-5	3.97	2	5	6	25.3	437	70	70	577	°	°	°	°	°	°	°	
UC5/32-2.5-10	3.97	2	10	8	25.3	586	70	70	726	°	°	°	°	°	°	°	
UC5/32-2.5-15	3.97	2	15	12	25.3	877	70	70	1017	°	°	°	°	°	°	°	
UC5/32-2.5-20	3.97	2	20	16	25.3	1169	70	70	1309	°	°	°	°	°	°	°	
UC3/16-3.2-2	4.76	3.2	2	1.6	26.9	135	80	80	295	°	°	°	°	°	°	°	
UC3/16-3.2-5	4.76	3.2	5	4	26.9	338	80	80	498	°	°	°	°	°	°	°	
UC3/16-3.2-10	4.76	3.2	10	8	26.9	677	80	80	837	°	°	°	°	°	°	°	
UC3/16-3.2-15	4.76	3.2	15	12	26.9	1015	80	80	1175	°	°	°	°	°	°	°	
UC3/16-3.2-20	4.76	4.2	20	16	26.9	1354	80	80	1514	°	°	°	°	°	°	°	
UC1/4-4.2-2	6.35	4.2	2	1.2	42	69	80	80	229	°	°	°	°	°	°	°	
UC1/4-4.2-5	6.35	4.2	5	2.4	42	149	80	80	309	°	°	°	°	°	°	°	
UC1/4-4.2-10	6.35	4.2	10	2.8	42	175	80	80	335	°	°	°	°	°	°	°	
UC1/4-4.2-15	6.35	4.2	15	3.6	42	228	80	80	388	°	°	°	°	°	°	°	
UC1/4-4.2-20	6.35	4.2	20	4	42	255	80	80	415	°	°	°	°	°	°	°	
UC5/16-5.0-5	7.94	5	5	1.2	50	79	90	90	259	°	°	°	°	°	°	°	
UC5/16-5.0-10	7.94	5	10	2	50	140	90	90	320	°	°	°	°	°	°	°	
UC5/16-5.0-15	7.94	5	15	2.4	50	170	90	90	350	°	°	°	°	°	°	°	
UC5/16-5.0-20	7.94	5	20	2.8	50	200	90	90	380	°	°	°	°	°	°	°	
UC3/8-6.4-5	9.52	6.4	5	2.8	62.7	199	100	100	399	°	°	°	°	°	°	°	
UC3/8-6.4-10	9.52	6.4	10	4	62.7	290	100	100	490	°	°	°	°	°	°	°	
UC3/8-6.4-15	9.52	6.4	15	6	62.7	441	100	100	641	°	°	°	°	°	°	°	
UC3/8-6.4-20	9.52	6.4	20	8	62.7	592	100	100	792	°	°	°	°	°	°	°	
UC1/2-8.5-5	12.7	8.5	5	2.8	84.5	174	100	100	374	°	°	°	°	°	°	°	
UC1/2-8.5-10	12.7	8.5	10	4	84.5	253	100	100	453	°	°	°	°	°	°	°	
UC1/2-8.5-15	12.7	8.5	15	6	84.5	385	100	100	585	°	°	°	°	°	°	°	
UC1/2-8.5-20	12.7	8.5	20	8	84.5	517	100	100	717	°	°	°	°	°	°	°	

NYLON TUBE

Application

- Used for hydraulic and pneumatic connections.
- Used for chemical plant, pneumatic connection, medical instrument and food industry.

Feature

- Long Life-span with durability, anti-weather, anti-flexibility. Anti-pressure, anti-vibration, anti-corrosion, heat-proof.
- Lightweight & flexible.
- Used for medical instrument and food industry.

Specification

Fluid	Air(No other gases or liquids)	
Working Pressure Range(20°C)	0~210PSI	0~15Kgf/cm ² (0~1.5MPa)
Negative Pressure	-29.5 in Hg	-750mm Hg(10Torr)
Temperature Range	5~140°F	-15~60°C

Product Code System

N - 08 - 60 - C

① ② ③ ④

① Type

②③ Tube Dia(∅D)

	Metric Size							
Code	0320	0420	0425	0640	0860	1080	1290	1613
Outer Dia	∅3	∅4	∅4	∅6	∅8	∅10	∅12	∅16
Inner Dia	∅2	∅2	∅2.5	∅4	∅6	∅8	∅9	∅13

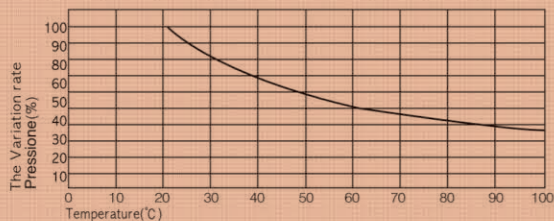
	Inch Size							
Code	1/8	5/32	3/16	1/4	5/16	3/8	1/2	5/8
Outer Dia	∅1/8	∅5/32	∅3/16	∅1/4	∅5/16	∅3/8	∅1/2	∅5/8

④ Color

	C	BK
Color	Clear	Black

Working Pressure

- Control working pressure within 1/3 of tube burst pressure at working temperature(20°C)
- Working pressure = Burst pressure(kg/cm²) x Vibration (%) x 1/3
Ex) N8 X 6 Tube
- In case of working temperature 50°C.
Burst pressure 60kg/cm² x vibration rate 60%
- ∴ Control working pressure below 12kg/cm².



Nylon Tube

N



MODEL [OUT-IN] Metric size

MODEL	Outer Dia mm	Inner Dia mm	Packing Unit (m)	The radius of curvature (mm)	Burst pressure (kg/cm ²)	W/G (g/gm)	Color							
							C	BK	R	BU	Y	G	W	O
N-03020	3	2	200	20	150	7	○	○	○	○	○	○	○	○
N-04020	4	2	200	20	150	9	○	○	○	○	○	○	○	○
N-04025	4	2.5	200	20	60	9	○	○	○	○	○	○	○	○
N-06040	6	4	100	30	90	17	○	○	○	○	○	○	○	○
N-08060	8	6	100	48	60	23	○	○	○	○	○	○	○	○
N-10080	10	8	100	60	50	36	○	○	○	○	○	○	○	○
N-12090	12	9	100	72	60	52	○	○	○	○	○	○	○	○

MODEL [OUT-IN] Inch Size

MODEL	Outer Dia mm	Inner Dia mm	Packing Unit (m)	The radius of curvature (mm)	Burst pressure (kg/cm ²)	W/G (g/gm)	Color							
							C	BK	R	BU	Y	G	W	O
N1/8-1.6	3.17	1.6	200	12	84	5	○	○	○	○	○	○	○	○
N1/8-2.0	3.17	2	200	12	84	5	○	○	○	○	○	○	○	○
N5/32-2.0	3.97	2	200	15	70	9	○	○	○	○	○	○	○	○
N5/32-2.5	3.97	2.5	200	15	70	9	○	○	○	○	○	○	○	○
N3/16-3.5	4.76	3.5	200	25	61	12	○	○	○	○	○	○	○	○
N1/4-4.6	6.35	4.6	100	25	45	27	○	○	○	○	○	○	○	○
N5/16-6.0	7.94	6	100	50	50	27	○	○	○	○	○	○	○	○
N3/8-6.9	9.52	6.9	100	60	45	35	○	○	○	○	○	○	○	○
N1/2-9.5	12.7	9.5	100	70	45	56	○	○	○	○	○	○	○	○

Common Precautions of Tube Series

Never fail to check the following

⚠ WARNING

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5. Never use tube in a place of rising spatter.

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1. Be sure to keep the radius of curvature of tube per size.
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