

Polyurethane Tube

Characteristics

- The ether base polyurethane tube, featuring excellent flexibility, helps compact piping requiring small bending radius.
- Tubes come in a variety of colors so that pipings can be identified by color or can be completed in the same colors as the devices.
- The useful cut marks at 500mm interval are printed on the tube.
- The long tube, as described in the table bellow, can be requested as build-to-order production.

■ Table of long tube

Model		Reel (m/roll)	Small bundle (m/roll)	Large bundle *2 (m/roll)
mm	inch			
UB0320	UB1/8	300	300	-
UB0425	UB5/32, UB3/16	300	300	-
UB0640	UB1/4	300	300	-
UB0850	UB5/16	200	200	500
UB1065	UB3/8	150	150	300
UB1280	UB1/2	100	100	200
UB1611	UB5/8	50	50	100

*1. The minimum ordering quantity of long tube is 500m or more.

*2. The large bundle tube roll is delivered by film wrapping on the pallet, and its freight cost will be charged separately.

ø1.8mm type

- Featuring small bending radius of 4mm, this ø1.8mm tube realizes compact piping.
- The tube comes in 10 colors.

Specifications

Model	UB01810	UB0320	UB0425	UB0640	UB0850	UB1065	UB1280	UB1611	UB1/8	UB5/32	UB3/16	UB1/4	UB5/16	UB3/8	UB1/2	UB5/8
O.D. x I.D. (mm)	1.8x1	3x2	4x2.5	6x4	8x5	10x6.5	12x8	16x11	3.18x2	4x2.5	4.76x3	6.35x4.15	8x5	9.53x6	12.7x8.5	16x11
Tube length (m)	20	20 · 50 (*1) · 100						20	20 · 100						20	
Tube color (○ : available)	Black (B)			○					○	○	○	○	○	○	○	○
	Red (R)			○					-	○	-	○	-	-	-	○
	Orange (O)			○					○	○	○	○	○	○	○	○
	Ocher (YB)			○					-	○	-	○	-	-	-	○
	Yellow (Y)			○					-	○	-	○	-	-	-	○
	Green (G)			○					-	○	-	○	-	-	-	○
	Blue (Bu)			○					-	○	-	○	-	-	-	○
	Clear blue (CB)			○					-	○	-	○	-	-	-	○
	Transparent (C)			○					-	○	-	○	-	-	-	○
	Milk-white (W)			○					-	○	-	○	-	-	-	○
Fluid medium	Air, water (*1, *2, *3)															
Max. operating pressure	116psi (0.8MPa) (65%RH at 20°C *4)															
Max. vacuum	-29.5in. Hg (-100kPa)															
Operating temp. range	-5 ~ 140°F (-15 ~ 60°C) (no freezing)															
Min. bending Radius (JIS) (mm)	4	8	10	15	20	30	60	8	10	15	20	30	60			
Min. Mounting Radius (VCE) (mm)	6	12	15	23	30	45	90	12	15	23	30	45	90			

- *1. When the fluid medium is water, limit the level of surge pressure to the maximum operating pressure or less.
- *2. Be sure to install the insert ring when the fluid is admitted.
- *3. Tap water can be admitted. Please make inquiries for other types of fluid.
- *4. Tube length 50M comes in black color only.
- *5. Max. operating pressure is the value at 65%RH at 20°C. When using on other temperatures, please take enough safety value judging from the burst pressure curve on the right. When the tube is applied to moving parts with vibration and bend, the temperature may rise due to self-heat generation by molecule heat generation and lead to the breakage of the tube.

Model Designation (Example)



- (1) Name of tube
- (2) Tube dia. (O.D./I.D.)

Code	mm size							
	O.D.	ø1.8mm	ø3mm	ø4mm	ø6mm	ø8mm	ø10mm	ø12mm
I.D.	ø1mm	ø2mm	ø2.5mm	ø4mm	ø5mm	ø6.5mm	ø8mm	ø11mm
Code	inch size							
	O.D.	ø1/8in.	ø5/32in.	ø3/16in.	ø1/4in.	ø5/16in.	ø3/8in.	ø1/2in.
I.D.	ø0.08in.	ø0.10in.	ø0.12in.	ø0.16in.	ø0.20in.	ø0.24in.	ø0.33in.	ø0.43in.

(3) Tube length

Code	20	50	100
Length	20m 65.6ft.	50m 164ft.	100m 328ft.

- * UB01810, UB1611 and UB5/8 coming in 20m only.
- * The standard UB 50m comes in black only.

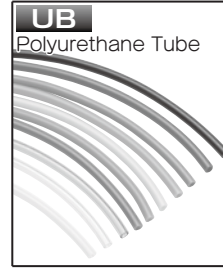
(4) Tube color

Code	B	R	O	YB	Y	G	Bu	CB	C	W
Color	Black	Red	Orange	Ocher	Yellow	Green	Blue	Clear blue	Transparent	Milk-white
mm size	○	○	○	○	○	○	○	○	○	○
inch	5/32, 5/16, 5/8	○	○	○	○	○	○	○	○	○
size	1/8, 3/16, 1/4, 3/8, 1/2	○	-	○	-	-	-	-	-	-

* The colors marked with ○ are available as standard.



The products listed in this page are ECO-friendly products. * Please refer to page 4 for the details of ECO-friendly products.



Model	
mm	inch
UB01810-20-4	UB1/8-3-4
UB0320-3-4	UB5/32-3-4
UB0425-3-4	UB3/16-3-4
UB0640-3-4	UB1/4-3-4
UB0850-3-4	UB5/16-3-4
UB1065-3-4	UB3/8-3-4
UB1280-3-4	UB1/2-3-4
UB1611-20-4	UB5/8-20-4



Cautions

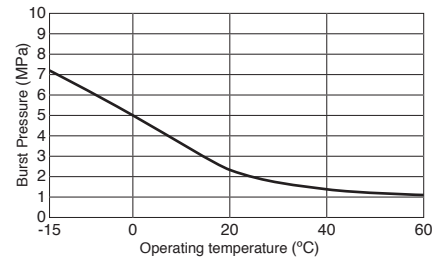
- *1. Tube can be sold at desirable length as build-to-order production. Please make inquiry about pricing to our sales offices.
- *2. For ③, please select a tube length.
- *3. For ④, please select a tube color.



Package specifications

- 20M lengths /bag: Applicable to all types
- 50M lengths/bag: Only black color in MM size is available
- 100M lengths/ box: All types except UB01810, 1611 and 5/8

Burst Pressure Curve (Reference Value)



Detailed Safety Instructions

Before using the PISCO device, be sure to read the "Safety Instructions", "Common Safety Instructions for Products Listed in This Manual" on page 13 to 15 and "Common Safety Instructions for Tubes" on page 264.

Air Exclusive Polyurethane Tube

Characteristics

- This polyurethane tube has achieved 20% cost saving compared to conventional Polyurethane Tube (UB).
- Excelled in mechanical strength and oil resistance, this ester base polyurethane tube is best suitable for air piping in factories.
- The polyurethane tube, featuring excellent flexibility, helps compact piping requiring small bending radius.
- Two standard tube colors, Black and Clear Blue are prepared.
- The useful cut marks at 500mm interval are printed on the tube.

Specifications

Model	UBT0320	UBT0425	UBT0640	UBT0850	UBT1065	UBT1280
Size	O.D.×I.D. (mm)					
	3×2	4×2.5	6×4	8×5	10×6.5	12×8
Tube length (m)	20 · 50 · 100					
Tube color	○: available					
	Black (B)					
	Clear blue (CB)					
Fluid medium	Air					
Max. operating pressure	116psi (0.8MPa) (65%RH at 20°C *)					
Max. vacuum	-29.5in. Hg (-100kPa)					
Operating temp. range	-5 ~ 140°F (-15 ~ 60°C) (no freezing)					
Min. bending Radius (JIS) (mm)	8	10	15	20	30	30
Min. Mounting Radius (VCE) (mm)	12	15	23	30	30	45

*1. Max. operating pressure is the value at 65%RH at 20°C. When using on other temperatures, please take enough safety value judging from the burst pressure curve on the right. When the tube is applied to moving parts with vibration and bend, the temperature may rise due to self-heat generation by molecule heat generation and lead to the breakage of the tube.

Model Designation (Example)

UBT (1) **0640** (2) - **20** (3) - **B** (4)

- (1) Name of tube
 (2) Tube dia. (O.D./I.D.)

Code	mm size					
	0320	0425	0640	0850	1065	1280
O.D.	ø3mm	ø4mm	ø6mm	ø8mm	ø10mm	ø12mm
I.D.	ø2mm	ø2.5mm	ø4mm	ø5mm	ø6.5mm	ø8mm

(3) Tube length

Code	20	50	100
Length	20m 65.6ft.	50m 164ft.	100m 328ft.

(4) Tube color

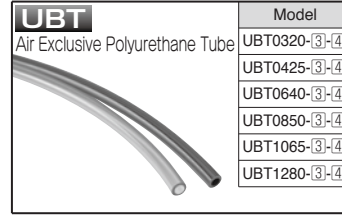
Code	B	CB
Color	Black	Light blue

Detailed Safety Instructions

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Cautions

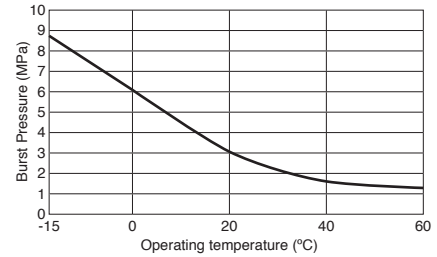
- *1. Tube can be sold at desirable length as build-to-order production. Please make inquiry about pricing to our sales offices.
- *2. For [3], please select a tube length.
- *3. For [4], please select a tube color.



Package specifications

- 20M lengths /bag: Applicable to all types
- 50M lengths/bag: Applicable to all types
- 100M lengths/ box: Applicable to all types

Burst Pressure Curve (Reference Value)

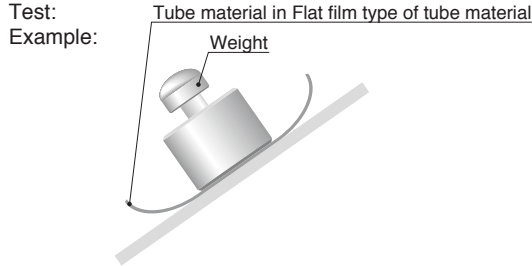


■ Tube for cable/hose protecting and guiding devices

Low-Friction Polyurethane Tube

Characteristics

- The polyurethane tube, featuring excellent flexibility, helps compact piping requiring small bending radius.
- Tubes come in a variety of colors so that pipings can be identified by color or can be completed in the same colors as the devices.
- The friction factor is one third (1/3) of PISCO Polyurethane Tube standard type.



- The useful cut marks at 500mm interval are printed on the tube.

Specifications

Model	UBS0425	UBS0640	UBS0850	UBS1065	UBS1280
Size					
O.D.×I.D. (mm)	4×2.5	6×4	8×5	10×6.5	12×8
Tube length (m)	20 · 100				
Tube color	Black (B)	○: available			
	Yellow (Y)	○			
	Green (G)	○			
	Blue (Bu)	○			
	Milk-white (W)	○			
Fluid medium	Air				
Max. operating pressure	116psi (0.8MPa) (65%RH at 20°C *)				
Max. vacuum	-29.5in. Hg (-100kPa)				
Operating temp. range	-5 ~ 140°F (-15 ~ 60°C) (no freezing)				
Min. bending Radius (JIS) (mm)	10	15	20	30	30
Min. Mounting Radius (VCE) (mm)	15	23	30	30	45

*1. Max. operating pressure is the value at 65%RH at 20°C. When using on other temperatures, please take enough safety value judging from the burst pressure curve on the right. When the tube is applied to moving parts with vibration and bend, the temperature may rise due to self-heat generation by molecule heat generation and lead to the breakage of the tube.

Model Designation (Example)



- (1) Name of tube
- (2) Tube dia. (O.D./I.D.)

Code	mm size				
	0425	0640	0850	1065	1280
O.D.	ø4mm	ø6mm	ø8mm	ø10mm	ø12mm
I.D.	ø2.5mm	ø4mm	ø5mm	ø6.5mm	ø8mm

- (3) Tube length

Code	20	100
Length	20m 65.6ft.	100m 328ft.

- (4) Tube color

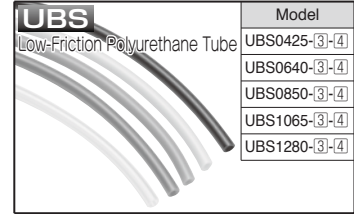
Code	B	Y	G	Bu	W
Color	Black	Yellow	Green	Blue	Milk-white

Detailed Safety Instructions

Before using the PISCO device, be sure to read the "Safety Instructions", "Common Safety Instructions for Products Listed in This Manual" on page 13 to 15 and "Common Safety Instructions for Tubes" on page 264.



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Cautions

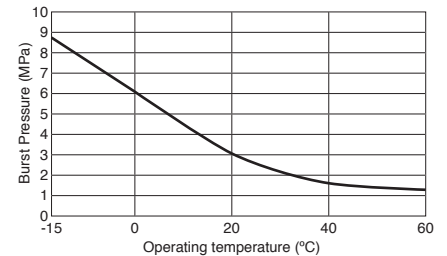
- *1. Tube can be sold at desirable length as build-to-order production. Please make inquiry about pricing to our sales offices.
- *2. As a special property of this Tube, the powder components (slipping agent) will appear on the surface (inside and outside) of the tube as time goes by. Please confirm the specification before use.
- *3. For (3), please select a tube length.
- *4. For (4), please select a tube color.



Package specifications

20M lengths /bag: Applicable to all types
100M lengths/ box: Applicable to all type

Burst Pressure Curve (Reference Value)





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