## Polyurethane Tube - Ester Base

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

Feet rolls are available in certain colors as standard.
Specifications

| Model | UBT 1/8 | UBT5/32 | UBT3/16 | UBT 1/4 | UBT5/16 | UBT3/8 | UBT1/2 | UBT0425 | UBT0640 | UBT0850 | UBT1065 | UBT1280 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| O O.D. $\times$ I.D. (mm) | $3.18 \times 2$ | $4 \times 2.5$ | $4.76 \times 3$ | $6.35 \times 4.15$ | $8 \times 5$ | $9.53 \times 6$ | 12.7×8.5 | $4 \times 2.5$ | 6×4 | $8 \times 5$ | $10 \times 6.5$ | 12×8 |
| ¢ Tube length (m) | $20 \cdot 100$ |  |  |  |  |  |  | $\left.20 \cdot 50{ }^{* 4}\right) \cdot 100$ |  |  |  |  |
| Black (B) | $\bigcirc$ |  | $\bigcirc$ | $\bigcirc$ |  |  |  | $\bigcirc$ |  |  |  |  |
| © $\quad \operatorname{Red}(\mathrm{R})$ | $\bigcirc$ |  | - | $\bigcirc$ |  |  |  | $\bigcirc$ |  |  |  |  |
| $\stackrel{\text { O}}{\stackrel{\text { ® }}{\sim}}$ Orange (O) | $\bigcirc$ |  | - | $\bigcirc$ |  |  |  | $\bigcirc$ |  |  |  |  |
| ત্\| | $\bigcirc$ |  |  | $\bigcirc$ |  |  |  | $\bigcirc$ |  |  |  |  |
| $\bigcirc$ Green (G) | $\bigcirc$ |  |  | $\bigcirc$ |  |  |  | $\bigcirc$ |  |  |  |  |
| 흥 Blue (Bu) | $\bigcirc$ |  | - | $\bigcirc$ |  |  |  | $\bigcirc$ |  |  |  |  |
| ¢ | $\bigcirc$ |  | $\bigcirc$ | $\bigcirc$ |  |  |  | $\bigcirc$ |  |  |  |  |
| $\stackrel{\text { Transparent (C) }}{ }$ | $\bigcirc$ |  | $\bigcirc$ | $\bigcirc$ |  |  |  | $\bigcirc$ |  |  |  |  |
| Milk-white (W) | $\bigcirc$ |  | - | $\bigcirc$ |  |  |  | $\bigcirc$ |  |  |  |  |
| Fluid medium | Air |  |  |  |  |  |  |  |  |  |  |  |
| Max. operating pressure | $116 \mathrm{psi}(0.8 \mathrm{MPa})\left(65 \% \mathrm{RH}\right.$ at $\left.20^{\circ} \mathrm{C}{ }^{* 5}\right)$ |  |  |  |  |  |  |  |  |  |  |  |
| Max. vacuum | -29.5in. Hg (-100kPa) |  |  |  |  |  |  |  |  |  |  |  |
| Operating temp. range | $-5 \sim 140^{\circ} \mathrm{F}\left(-15 \sim 60^{\circ} \mathrm{C}\right)$ (no freezing) |  |  |  |  |  |  |  |  |  |  |  |
| Min. bending Radius (JIS) (mm) | 8 | 10 |  | 15 |  | 20 | 30 | 10 | 15 |  | 20 | 30 |
| Min. Mounting Radius (VICE)(mm) | 12 | 15 | 23 |  |  | 30 | 45 | 15 | 23 |  | 30 | 45 |

*1. 50 M length is available only in black color with tube dia. metric sizes (not available with inch sizes)
*2. The value of max. operating pressure at at $20^{\circ} \mathrm{C} 65 \% \mathrm{RH}$. When Tubes are used in different conditions, consider a safety ratio of the pressure with an enough margin, referring to Burst Pressure Curve. When Tubes are frequently swung and bent, there is a possibility of generating heat between molecules, and damaging the products.

## RóHS



Cautions
*Tube can be sold at desirable length as build-to-order production. Please make inquiry about the availability of feet length roll.

Package speciflcations
20M lengths /bag: Applicable to all types
50 M lengths/bag: Only black color in MM size is available
Burst Pressure Curve (Reference $\underline{\text { Value) }}$


## Model Designation (Example)


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

|  | inch size |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Code | $\mathbf{1 / 8}$ | $5 / 32$ | $\mathbf{3 / 1 6}$ | $\mathbf{1 / 4}$ | $5 / 16$ | $\mathbf{3 / 8}$ | $\mathbf{1 / 2}$ |
| O.D. | $\varnothing 1 / 8 \mathrm{in}$. | $\varnothing 5 / 32 \mathrm{in}$. | $\varnothing 3 / 16 \mathrm{in}$. | $\varnothing 1 / 4 \mathrm{in}$. | $\varnothing 5 / 16 \mathrm{in}$. | $\varnothing 3 / 8 \mathrm{in}$. | $\varnothing 1 / 2 \mathrm{in}$. |
| I.D. | $\varnothing 0.08 \mathrm{in}$. | $\varnothing 0.10 \mathrm{in}$. | $\varnothing 0.12 \mathrm{in}$. | $\varnothing 0.16 \mathrm{in}$. | $\varnothing 0.20 \mathrm{in}$. | $\varnothing 0.24 \mathrm{in}$. | $\varnothing 0.33 \mathrm{in}$. |


| Code | 0425 | 0640 | 0850 | 1065 | 1280 |
| :---: | :---: | :---: | :---: | :---: | :---: |
| O.D. | $\varnothing 4 \mathrm{~mm}$ | $\varnothing 6 \mathrm{~mm}$ | $\varnothing 8 \mathrm{~mm}$ | $\varnothing 10 \mathrm{~mm}$ | $\varnothing 12 \mathrm{~mm}$ |
| I.D. | $\varnothing 2.5 \mathrm{~mm}$ | $\varnothing 4 \mathrm{~mm}$ | $\varnothing 5 \mathrm{~mm}$ | $\varnothing 6.5 \mathrm{~mm}$ | $\varnothing 8 \mathrm{~mm}$ |

(3) Tube length

| Code | 20 | 50 | 100 |
| :---: | :---: | :---: | :---: |
| Length | 20 m | 50 m | 100 m |
|  | 65.6 ft | 164 ft | 328 ft. |

* Inch dia. tubings come in either 20 m or 100 m , or in feet rolls of either 100 or 500 ', are available in certain colors as standard.
* 100 m or 500 ' length comes on a reel while 20 m and $100^{\prime}$ is in a plastic bag.
* The standard UBT 50 m comes in black only for metric sizes only.
(4) Tube color

| Code | B | R | $\mathbf{O}$ | Y | G | Bu | CB | C | W |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Color | Black | Red | Orange | Yellow | Green | Blue | Clear blue | Transparent | Milk-white |
| mm size | $\bigcirc$ | $\bigcirc$ | $\bigcirc$ | $\bigcirc$ | $\bigcirc$ | $\bigcirc$ | $\bigcirc$ | $\bigcirc$ | $\bigcirc$ |
| inch | $11 / 8,5 / 32,1 / 4,5 / 46,3 / 8,1 / 2$ | $\bigcirc$ | $\bigcirc$ | $\bigcirc$ | $\bigcirc$ | $\bigcirc$ | $\bigcirc$ | $\bigcirc$ | $\bigcirc$ |
| size | $3 / 16$ | $\bigcirc$ | - | - | - | - | - | $\bigcirc$ | $\bigcirc$ |

[^0]http://www.pisco.com

## Print your company name on tubing



- Ester Base Polyurethane Tubing only

PISCO is capable of producing polyurethane tubing with your specified company name or logo printed on the tubing. Following are the requirements for special-printed polyurethane tubing (Ester base tubing only).

| Tube O.D. Size | Minimum Quantity |
| :--- | :--- |
| 5/32", 4mm, <br> 1/4", 6 mm | 5000 meters or 16500 feet total <br> (1000 meters or 3300 feet per color) |
| $5 / 16^{\prime \prime}, 8 \mathrm{~mm}$ | 3000 meters or 9900 feet total <br> (1000 meters or 3300 feet per color) |
| $3 / 8^{\prime \prime}, 10 \mathrm{~mm}$ | 2400 meters or 7900 feet total <br> (800 meters or 2700 feet per color) |
| $1 / 2^{\prime \prime}, 12 \mathrm{~mm}$ | 1200 meters or 4000 feet total <br> $(600$ meters or 2000 feet per color) |
| $5 / 8^{\prime \prime}, 16 \mathrm{~mm}$ | 800 meters or 2700 feet total <br> (400 meters or 1350 feet per color) |

Contact us for quotation.

## Polyurethane Tube - Ether Base

## 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 500 mm 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 |  | $\begin{gathered} \text { Reel } \\ (\mathrm{m} / \mathrm{roll}) \\ \hline \end{gathered}$ | Small bundle ( $\mathrm{m} / \mathrm{roll}$ ) | Large bundle *2 ( $\mathrm{m} / \mathrm{roll}$ ) | *1. The minimum ordering quantity of long tube is 500 m or more. |
| :---: | :---: | :---: | :---: | :---: | :---: |
| mm | inch |  |  |  |  |
| UB0320 | UB1/8 | 300 | 300 | - |  |
| UB0425 | UB5/32, UB3/16 | 300 | 300 | - |  |
| UB0640 | UB1/4 | 300 | 300 | - | The large bundle tube roll is delivered by film wrapping on the pallet, and its freight cost will be |
| UB0850 | UB5/16 | 200 | 200 | 500 | charged separately. |
| UB1065 | UB3/8 | 150 | 150 | 300 |  |
| UB1280 | UB1/2 | 100 | 100 | 200 |  |
| UB1611 | UB5/8 | 50 | 50 | 100 |  |

$\varnothing 1.8 \mathrm{~mm}$ type

- Featuring small bending radius of 4 mm , this $\varnothing 1.8 \mathrm{~mm}$ tube realizes compact piping.
- The tube comes in 10 colors.

Specifications

| Model | UBO1810 | UB0320 | UB0425 | UB0640 | UBO850 | UB1065 | UB1280 | UB1611 | UB1/8 | UB5/32 | UB3/16 | UB1/4 | UB5/16 | UB3/8 | UB1/2 | UB5/8 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| \% O.D.×I.D. (mm) | $1.8 \times 1$ | $3 \times 2$ | $4 \times 2.5$ | 6×4 | $8 \times 5$ | 10×6.5 | 12×8 | 16x11 | 3.18x2 | $4 \times 2.5$ | 4.76x3 | 6.35x.15 | $8 \times 5$ | $9.53 \times 6$ | 12.7x8.5 | $16 \times 11$ |
| is Tube length (m) | 20 | 20.50 ( $\left.{ }^{* 4}\right) \cdot 100$ |  |  |  |  |  | 20 | $20 \cdot 100$ |  |  |  |  |  |  | 20 |
| Black (B) | $\bigcirc$ |  |  |  |  |  |  |  | $\bigcirc$ | $\bigcirc$ | O |  | $\bigcirc$ | O | O | $\bigcirc$ |
| © $\quad \operatorname{Red}(\mathbf{R})$ | $\bigcirc$ |  |  |  |  |  |  |  | - | $\bigcirc$ | - |  | $\bigcirc$ | - | - | $\bigcirc$ |
| O Orange (0) | $\bigcirc$ |  |  |  |  |  |  |  | $\bigcirc$ | $\bigcirc$ | O |  | $\bigcirc$ |  | O | $\bigcirc$ |
| 閭 Ocher (YB) | $\bigcirc$ |  |  |  |  |  |  |  | - | $\bigcirc$ | - |  | $\bigcirc$ | - | - | $\bigcirc$ |
| $\ddot{O}$ Yellow (Y) | $\bigcirc$ |  |  |  |  |  |  |  | - | $\bigcirc$ |  |  | $\bigcirc$ |  | - | $\bigcirc$ |
| F-Green (G) | $\bigcirc$ |  |  |  |  |  |  |  | - | $\bigcirc$ |  |  | $\bigcirc$ | - | - | $\bigcirc$ |
| 응 Blue (Bu) | $\bigcirc$ |  |  |  |  |  |  |  | - | $\bigcirc$ |  |  | $\bigcirc$ |  | - | $\bigcirc$ |
| $\stackrel{\otimes}{\circ}$ Clear blue (CB) | $\bigcirc$ |  |  |  |  |  |  |  | - | $\bigcirc$ |  |  | $\bigcirc$ |  | - | $\bigcirc$ |
| $\vdash$ Transparent (C) | $\bigcirc$ |  |  |  |  |  |  |  | - | $\bigcirc$ |  | - | $\bigcirc$ |  | - | $\bigcirc$ |
| Milk-white (W) | $\bigcirc$ |  |  |  |  |  |  |  | - | $\bigcirc$ |  | - | $\bigcirc$ |  | - | $\bigcirc$ |
| Fluid medium | Air, water (*1, *2, *3) |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Max. operating pressure | 145psi (1.0MPa) ( $65 \% \mathrm{RH}$ at $20^{\circ} \mathrm{C}{ }^{\text {*5 }}$ ) |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Max. vacuum | -29.5in. Hg (-100kPa) |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Operating temp. range | $4 \sim 158^{\circ} \mathrm{F}\left(-20 \sim 70^{\circ} \mathrm{C}\right)$ (no freezing) |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Min. bending Radius (JS) (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. Surge pressure must be controlled lower than max. operating pressure when using water as a fluid medium.
*2. Be sure to place Insert Ring into the tube edge when Polyurethane Tube is installed into the Push-In Fittings with water as a fluid medium.
*3. Tap water can be used. Consult with PISCO for using other kind of water
*4. 50M length is available only in black color with tube dia. of metric sizes.
*5. The value of max. operating pressure at at $20^{\circ} \mathrm{C} 65 \%$ RH. When Tubes are used in different conditions, consider a safety ratio of the pressure with an enough margin, referring to Burst Pressure Curve. When Tubes are frequently swung and bent, there is a possibility of generating heat between molecules, and damaging the products.

## Model Designation (Example)


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

|  | mm size |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Code | $\mathbf{0 1 8 1 0}$ | 0320 | 0425 | 0640 | 0850 | $\mathbf{1 0 6 5}$ | $\mathbf{1 2 8 0}$ | $\mathbf{1 6 1 1}$ |
| O.D. | $\varnothing 1.8 \mathrm{~mm}$ | $\varnothing 3 \mathrm{~mm}$ | $\varnothing 4 \mathrm{~mm}$ | $\varnothing 6 \mathrm{~mm}$ | $\varnothing 8 \mathrm{~mm}$ | $\varnothing 10 \mathrm{~mm}$ | $\varnothing 12 \mathrm{~mm}$ | $\varnothing 16 \mathrm{~mm}$ |
| I.D. | $\varnothing 1 \mathrm{~mm}$ | $\varnothing 2 \mathrm{~mm}$ | $\varnothing 2.5 \mathrm{~mm}$ | $\varnothing 4 \mathrm{~mm}$ | $\varnothing 5 \mathrm{~mm}$ | $\varnothing 6.5 \mathrm{~mm}$ | $\varnothing 8 \mathrm{~mm}$ | $\varnothing 11 \mathrm{~mm}$ |
|  | inch size |  |  |  |  |  |  |  |
| Code | $\mathbf{1 / 8}$ | $\mathbf{5 / 3 2}$ | $\mathbf{3 / 1 6}$ | $\mathbf{1 / 4}$ | $\mathbf{5 / 1 6}$ | $\mathbf{3 / 8}$ | $\mathbf{1 / 2}$ | $\mathbf{5 / 8}$ |
| O.D. | $\varnothing 1 / 8 \mathrm{in}$. | $\varnothing 5 / 32 \mathrm{in}$. | $\varnothing 3 / 16 \mathrm{in}$. | $\varnothing 1 / 4 \mathrm{in}$. | $\varnothing 5 / 16 \mathrm{in}$. | $\varnothing 3 / 8 \mathrm{in}$. | $\varnothing 1 / 2 \mathrm{in}$. | $\varnothing 5 / 8 \mathrm{in}$. |
| I.D. | $\varnothing 0.08 \mathrm{in}$. | $\varnothing 0.10 \mathrm{in}$. | $\varnothing 0.12 \mathrm{in}$. | $\varnothing 0.16 \mathrm{in}$. | $\varnothing 0.20 \mathrm{in}$. | $\varnothing 0.24 \mathrm{in}$. | $\varnothing 0.33 \mathrm{in}$. | $\varnothing 0.43 \mathrm{in}$. |

(3) Tube length

| Code | 20 | 50 | 100 |
| :---: | :---: | :---: | :---: |
| Length | 20 m | 50 m | 100 m |
|  | 65.6 ft. | 164 ft. | 328 ft. |

* UB01810, UB1611 and UB5/8 coming in 20 m only.

The standard UB 50 m comes in black only.
(4) Tube color

|  | Code | B | R | 0 | YB | Y | G | Bu | CB | C | W |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Color | Black | Red | Orange | Ocher | Yellow | Green | Blue | Clear blue | Transparent | Milk-white |
|  | mm size | $\bigcirc$ | $\bigcirc$ | $\bigcirc$ | $\bigcirc$ | $\bigcirc$ | $\bigcirc$ | $\bigcirc$ | $\bigcirc$ | $\bigcirc$ | $\bigcirc$ |
| inch | 5/32, 5/16, 5/8 | $\bigcirc$ | $\bigcirc$ | $\bigcirc$ | $\bigcirc$ | $\bigcirc$ | $\bigcirc$ | $\bigcirc$ | $\bigcirc$ | $\bigcirc$ | $\bigcirc$ |
| size | 1/8, 3/16, 1/4, 3/8, 1/2 | $\bigcirc$ | - | $\bigcirc$ | - | - | - | - | - | - | - |

* The colors marked with $\bigcirc$ are available as standard.


## RoHs

| UB <br> Polyurethane Tube | Model |  |
| :---: | :---: | :---: |
|  | mm | inch |
|  | UB01810-20-4 | UB ${ }^{1 / 8}$ - 3 - -4 |
|  | UB0320-3-4] | UB5/32-(3)-4 |
|  | UB0425-3-4] | UB $3 / 16-33-4$ |
|  | UB0640-37-4] | UB $1 / 4-37-4$ |
|  | UB0850-37-4] | UB ${ }^{5} 16-33-4$ |
|  | UB1065-3-4] | UB3/8-37-4 |
|  | UB1280-3-4] | $\mathrm{UB}^{1 / 2}$ - 3 (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 speciflcations
20M lengths /bag: Applicable to all types
50 M 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)



## Soft Polyurethane Tube

## Characteristics

- Soft Polyurethane Tube is best suitable for compact piping in narrow space with its flexible property.
- It is made of ether base polyurethane resin, making possible to use water as a fluid medium.
- 6 colors are available.
- The useful cut marks on every 500 mm are printed.
- Multi-core Planner Tube made by Soft Polyurethane Tube is also available. (See page 74 for details.)

Specifications

| Model | UC0425 | UC0640 | UC0850 | UC1065 | UC1280 |
| :---: | :---: | :---: | :---: | :---: | :---: |
| \% O.D. $\times$ I.D. (mm) | $4 \times 2.5$ | $6 \times 4$ | $8 \times 5$ | $10 \times 6.5$ | 12×8 |
| ¢ Tube length (m) | $20 \cdot 100$ |  |  |  |  |
| O Clear black (CBL) | $\bigcirc$ |  |  |  |  |
| 長 Claar orange (CBL) | $\bigcirc$ |  |  |  |  |
| $\because$ Clear yellow (CY) | $\bigcirc$ |  |  |  |  |
| ¢ Clear green (CG) | $\bigcirc$ |  |  |  |  |
| \% Clear blue (CB) | $\bigcirc$ |  |  |  |  |
| ) Transparent (C) | $\bigcirc$ |  |  |  |  |
| Fluid medium | Air, water (* $\left.{ }^{*}, *_{2}, *_{3}\right)$ |  |  |  |  |
| Max. operating pressure | $87 \mathrm{psi}(0.6 \mathrm{MPa})\left(65 \% \mathrm{RH}\right.$ at $\left.20^{\circ} \mathrm{C}{ }^{* 4}\right)$ |  |  |  |  |
| Max. vacuum | -29.5in. Hg (-100kPa) |  |  |  |  |
| Operating temp. range | $-5 \sim 140^{\circ} \mathrm{F}\left(-15 \sim 60^{\circ} \mathrm{C}\right)$ (no freezing) |  |  |  |  |
| Min. bending Radius (JIS) (mm) | 9 |  |  | 18 | 27 |
| Remarks | Use of Insert ring is recommended. |  |  |  |  |

*1. Surge pressure must be controlled lower than max. operating pressure when using water as a fluid medium
*2. Tap water can be used. Consult with PISCO for using other kind of water
*3. Be sure to place Insert Ring into the tube edge when Soft Polyurethane Tube is inserted into Push-In Fittings with water as a fluid medium.
4. The value of max. operating pressure is measured at $20^{\circ} \mathrm{C}$ at $65 \% \mathrm{RH}$. When Tubes are used in different conditions, consider a safety ratio of the pressure with an enough margin, referring to Burst Pressure Curve. When Tubes are frequently swung and bent, there is a possibility of generating heat between molecules, and damaging the products.

Model Designation (Example)


1) Soft Polyurethane Tube
(2) Tube dia. (O.D./I.D.)

|  | mm size |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Code | $\mathbf{0 4 2 5}$ | $\mathbf{0 6 4 0}$ | $\mathbf{0 8 5 0}$ | $\mathbf{1 0 6 5}$ | $\mathbf{1 2 8 0}$ |
| O.D. $(\mathrm{mm})$ | $\varnothing 4$ | $\varnothing 6$ | $\varnothing 8$ | $\boxed{0}$ | $\boxed{0}$ |
| I.D. $(\mathrm{mm}$ | $\varnothing 2.5$ | $\varnothing 4$ | $\varnothing 5$ | $\varnothing 6.5$ | $\varnothing 8$ |

## (3) Tube length

| Code | $\mathbf{2 0}$ | $\mathbf{1 0 0}$ |
| :---: | :---: | :---: |
| Length | 20 m | 100 m |
|  | 65.6 ft. | 328 ft. |

(4) Tube color

| Code | CBL | CO | CY | CG | CB | C |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Tube color | Clear black | Clear orange | Clear yellow | Clear green | Clear blue | Transparent |

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


| Model code |
| :---: |
| UC0425-3-4 |
| UC0640-3-4 |
| UC0850-3--4 |
| UC1065-3-4 |
| UC1280-3-4 |

## Caution

* (3): Replaced with Tube length.
* [4) : Replaced with Tube color code.
*Tubes with desired length are available as make-to-order items. Contact Pisco sales office or sales representative for details.

Package specifications 20M lengths /bag: Applicable to all types 100M lengths/ box: All types

Burst Pressure Curve (Reference Value).


## Detailed Safety Instructions

Before using the PISCO products, be sure to read the "Safety Instructions", "Common Safety Instructions for Products in This Catalog" on page 13 to 16 and "Common Safety Instructions for Tubes" on page 66.

## Low-Friction Polyurethane Tube

## Characteristics

- The polyurethane tube, featuring excellent flexiblity, 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 500 mm interval are printed on the tube.


## Specifications

| Model | UBS0425 | UBS0640 | UBS0850 | UBS1065 | UBS1280 |
| :---: | :---: | :---: | :---: | :---: | :---: |
| \% O.D. $\times$ I.D. (mm) | $4 \times 2.5$ | $6 \times 4$ | $8 \times 5$ | $10 \times 6.5$ | 12×8 |
| ¢ Tube length (m) | $20 \cdot 100$ |  |  |  |  |
| Black (B) | $\bigcirc$ : available |  |  |  |  |
| 흥 Yellow (Y) | $\bigcirc$ |  |  |  |  |
| \% 0 | $\bigcirc$ |  |  |  |  |
| $\stackrel{\cap}{\ddagger}$ Blue (Bu) | $\bigcirc$ |  |  |  |  |
| Milk-white (W) | $\bigcirc$ |  |  |  |  |
| Fluid medium | Air |  |  |  |  |
| Max. operating pressure | $116 \mathrm{psi}(0.8 \mathrm{MPa})\left(65 \% \mathrm{RH}\right.$ at $\left.20^{\circ} \mathrm{C}{ }^{* 1}\right)$ |  |  |  |  |
| Max. vacuum | -29.5in. Hg (-100kPa) |  |  |  |  |
| Operating temp. range | $-5 \sim 140^{\circ} \mathrm{F}\left(-15 \sim 60^{\circ} \mathrm{C}\right)$ (no freezing) |  |  |  |  |
| Min. bending Radius (JIS) (mm) | 10 |  |  | 20 | 30 |
| Min. Mounting Radius (VICE) (mm) | 15 |  |  | 30 | 45 |

*1. Max. operating pressure is the value at $65 \% \mathrm{RH}$ at $20^{\circ} \mathrm{C}$. 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.II.D.)

|  | mm size |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Code | 0425 | 0640 | 0850 | 1065 | 1280 |
| O.D. | ø4mm | ø6mm | ø8mm | ø10mm | ø12mm |
| I.D. | ø2.5mm | ${ }^{\circ} 4 \mathrm{~mm}$ | $\varnothing 5 \mathrm{~mm}$ | $\varnothing 6.5 \mathrm{~mm}$ | ø8mm |

(3) Tube length

| Code | 20 | 100 |
| :---: | :---: | :---: |
| Length | 20 m | 100 m |
|  | 65.6 ft. | 328 ft. |

## (4) Tube color

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

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


Cautions
*1. Tube can be sold at desirable length as build-to-order production. Please make inquiry about pricing to our sales offlces.
*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 conflrm the speciflcation before use.
*3. For (3) , please select a tube length.
*4. For (4), please select a tube color.
Package speciflcations
20M lengths /bag: Applicable to all types
100M lengths/ box: Applicable to all type

Burst Pressure Curve (Reference Value)


## Vacuum Tube

## Characteristics

- This ultra soft tube is suitable around actuators where tubes frequently move and small bending radius is required.
- The useful cut marks on every 500 mm interval are printed.


## Specifications

| Model | UD0425 | UD0640 | UD0860 | UD1075 | UD1290 |
| :---: | :---: | :---: | :---: | :---: | :---: |
| ¢ ${ }_{\text {N }}$ O.D. $\times$ I.D. (mm) | 4×2.5 | $6 \times 4$ | $8 \times 6$ | $10 \times 7.5$ | $12 \times 9$ |
| ¢ Tube length (m) | $20 \cdot 100$ |  |  |  |  |
| 흥 Transparent (C) | $\bigcirc$ |  |  |  |  |
| Fluid medium | Air |  |  |  |  |
| Max. operating pressure | 58psi (0.4MPa) (65\%RH at $20^{\circ} \mathrm{C}$ *1) |  | 43.5psi (0.3MPa) (65\%RH at $20^{\circ} \mathrm{C}$ *1) |  |  |
| Max. vacuum | -29.5in. Hg (-100kPa) |  |  |  |  |
| Operating temp. range | -5 ~ 122 ${ }^{\circ} \mathrm{F}\left(-15 \sim 50^{\circ} \mathrm{C}\right)$ (no freezing) |  |  |  |  |
| Min. bending Radius (US) (mm) | 8 | 12 | 27 | 34 | 38 |

${ }^{*} 1$. The value of max. operating pressure is measured at $20^{\circ} \mathrm{C}$ and $65 \% \mathrm{RH}$. When Tubes are used in different conditions, consider a safety ratio of the pressure with an enough margin, referring to Burst Pressure Curve. When Tubes are frequently swung and bent, there is a possibility of generating heat between molecules and damaging the products.
*2. Be sure to place Insert Ring into the tube edge when Vacuum Tube is inserted into Push-In Fittings. There is a possibility of escape of Tube without Insert Ring.

## Model Designation (Example)


(1) Vacuum Tube
(2) Tube dia. (O.D.II.D.)

|  | mm size |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Code | $\mathbf{0 4 2 5}$ | $\mathbf{0 6 4 0}$ | $\mathbf{0 8 6 0}$ | $\mathbf{1 0 7 5}$ | $\mathbf{1 2 9 0}$ |
| O.D. | $\varnothing 4 \mathrm{~mm}$ | $\varnothing 6 \mathrm{~mm}$ | $\varnothing 8 \mathrm{~mm}$ | $\varnothing 10 \mathrm{~mm}$ | $\varnothing 12 \mathrm{~mm}$ |
| I.D. | $\varnothing 2.5 \mathrm{~mm}$ | $\varnothing 4 \mathrm{~mm}$ | $\varnothing 6 \mathrm{~mm}$ | $\varnothing 7.5 \mathrm{~mm}$ | $\varnothing 9 \mathrm{~mm}$ |

(3) Tube length

| Code | $\mathbf{2 0}$ | $\mathbf{1 0 0}$ |
| :---: | :---: | :---: |
| Length | 20 m | 100 m |
|  | 65.6 ft. | 328 ft. |

(4) Tube color

| Code | C |
| :--- | :---: |
| Color | Transparent |

## Detailed Safety Instructions

Before using the PISCO products, be sure to read the "Safety Instructions", "Common Safety Instructions for Products Listed in This Manual" on page 13 to 16 and "Common Safety Instructions for Tubes" on page 66.

[^1]ROHS The products listed in this page are ECO-friendly products


Caution

* (3) : Replaced with Tube length.

Tubes with desired length are available as make-to-order items. Contact Pisco sales office or sales representative for details.

Package specifications
20M lengths /bag: Applicable to all types
100M lengths/ box: Applicable to all types
Burst Pressure Curve (Reference Value)



[^0]:    * The colors marked with $\bigcirc$ are available as standard

[^1]:    $\triangle$ Caution : 1. Load is not considered in the value of Minimum Installation Radius. Since Vacuum Tube is easily crushed during vacuum suction, an enough margin of Minimum Installation Radius needs to be applied. (Reference for Margin: Minimum Installation Radius x 1.3 )

