

Nylon Tube, Soft Nylon Tube

Straight Tube for General Pneumatic Piping and Mold Temperature Control Piping

⚠ Safety instructions for this product
Safety instructions, Common safety instructions for each product category and Detailed safety instructions for each product are in the end of this catalog and our website.

Model Designation (Example)



(1) Tube type

| Code | NA | NB |
|-----------|------------|-----------------|
| Tube type | Nylon Tube | Soft Nylon Tube |

(2) Tube dia. (O.D.×I.D.)

| Code | mm size (mm) | | | | | |
|------|--------------|------|------------|------|------|-----------|
| | 0425(5/32) | 0640 | 0860(5/16) | 1075 | 1290 | 1613(5/8) |
| O.D. | ø4 | ø6 | ø8 | ø10 | ø12 | ø16 |
| I.D. | ø2.5 | ø4 | ø6 | ø7.5 | ø9 | ø13 |

| Code | inch size (inch) | | | | | | | |
|------|------------------|-------------|-------|-------|-------------|-------|-------|------------|
| | 1/8 | 0425 (5/32) | 3/16 | 1/4 | 0850 (5/16) | 3/8 | 1/2 | 1613 (5/8) |
| O.D. | ø1/8 | ø5/32 | ø3/16 | ø1/4 | ø5/16 | ø3/8 | ø1/2 | ø5/8 |
| I.D. | ø0.08 | ø0.10 | ø0.12 | ø0.18 | ø0.24 | ø0.28 | ø0.38 | ø0.51 |

*1. Figures in () in the row Code represent the O.D. of the tube in inches.

*2. Soft Nylon Tube (NB) is not available in inch size as standard.

(3) Tube length

| Code | 20 | 100 |
|------------|----|-----|
| Length (m) | 20 | 100 |

*NA1613, NB1613 and NA5/8 are available only in 20 m length.

(4) Tube color (○: Available)

| Code | B | R | O | YB | Y | G | BU | CB | W | BR | YG | P |
|------------|-----------|-----|--------|-------|--------|-------|------|------------|-------------|-------|--------------|------|
| Tube color | Black | Red | Orange | Ocher | Yellow | Green | Blue | Clear blue | Milky white | Brown | Yellow green | Pink |
| NA | mm size | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | | | |
| | inch size | ○ | | | | | | | ○ | | | |
| NB | ○ | ○ | △*2 | △*2 | ○ | △*2 | ○ | ○ | ○ | △*2 | △*2 | △*2 |

*1. The standard colors for inch size 1/8, 3/16, 1/4, 3/8 and 1/2: Black and Milky white only.

*2. Color selection with marking △ is available as a make-to-order product. (MOQ is 500 m.)

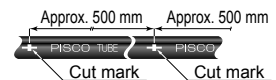
*3. Standard colors for NB1613 are Black, Blue, and Milky white only. Other colors are available as a make-to-order product. (MOQ is 500 m.)

Characteristics

Featuring excellent pressure resistance, can be used under high pressure.

The cut marks at 500 mm interval are printed on the tube as a guide.

*The marks are just as a guide and the accuracy is not guaranteed.



Tubings longer than the packaged length can be requested as make-to-order production.

Tube diameter / Length List

| Model code | Length (m) |
|----------------|------------|
| NA0425, NB0425 | 500 |
| NA0640, NB0640 | 500 |
| NA0860, NB0860 | 500 |
| NA1075, NB1075 | 250 |
| NA1290, NB1290 | 200 |
| NA1613, NB1613 | 50 |

*1. The minimum order quantity of tubings longer than the packaged length is 500 m or more per order.

*2. Contact us for lengths not listed.

*3. Contact us for the reel winding.

*4. Contact us for tubes longer than the packaged length in inch size.

A wide variety of color options are available: 9 colors for NA, 12 colors for NB.

For the details, see the table of (4). Tube color in "Model Designation (Example)".

Can be used with hot water and heat medium oil.

Used as hot water resistant tube, best suitable for the piping of mold cooling water.

Specifications (○: Available, △: Available as a make-to-order)

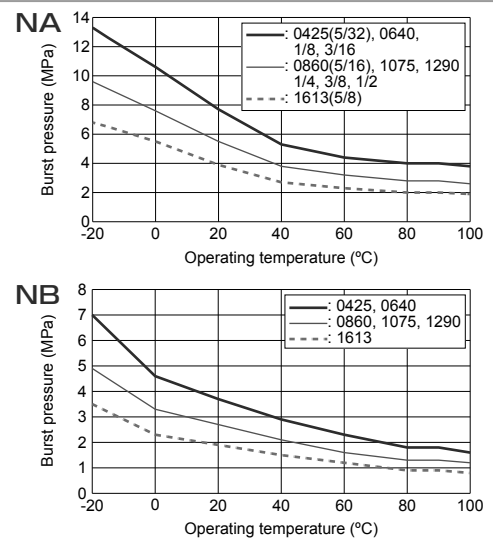
| | | NA | | | | | | | | | | |
|----------------------|--------------------------------------|---|--------|-------------------|--------|--------|------------------|----------|-----------|----------|----------|----------|
| | | mm size (mm) | | | | | inch size (inch) | | | | | |
| Model code | | NA0425 (5/32") | NA0640 | NA0860 (5/16") | NA1075 | NA1290 | NA1613 (5/8") | NA1/8 | NA3/16 | NA1/4 | NA3/8 | NA1/2 |
| Size | O.D.×I.D. | 4×2.5 | 6×4 | 8×6 | 10×7.5 | 12×9 | 16×13 | 1/8×0.08 | 3/16×0.12 | 1/4×0.18 | 3/8×0.28 | 1/2×0.38 |
| | Tube length (m) | 20 · 100 | | | | | 20 | 20 · 100 | | | | |
| Tube color: 9 colors | Black (B) | | | ○ | | | | | | ○ | | |
| | Red (R) | | | ○ | | | | | | - | | |
| | Orange (O) | | | ○ | | | | | | - | | |
| | Ocher (YB) | | | ○ | | | | | | - | | |
| | Yellow (Y) | | | ○ | | | | | | - | | |
| | Green (G) | | | ○ | | | | | | - | | |
| | Blue (BU) | | | ○ | | | | | | - | | |
| | Clear blue (CB) | | | ○ | | | | | | - | | |
| | Milky white (W) | | | ○ | | | | | | ○ | | |
| Specifications | Fluid medium | Air, Water (Conditional ^{**1}), Heat medium oil (Conditional ^{**1}) | | | | | | | | | | |
| | Max. operating pressure (MPa) | 2.0 (265% RH at 20°C ^{**2}) | | | | | | | | | | |
| | Max. vacuum (kPa) | -100 | | | | | | | | | | |
| | Operating temp. range (°C) | Air: -20 to 100 (No freezing) Water, Heat medium oil: -15 to 90 (No freezing) | | | | | | | | | | |
| | Min. bending radius (JIS) (mm) | 10 | 15 | 24 | 30 | 36 | 80 | 8 | 12 | 18 | 32 | 38 |
| | Min. installation radius (Vice) (mm) | 14 | 21 | 40 | 46 | 54 | 94 | 12 | 18 | 27 | 48 | 57 |
| Tube hardness (Ref) | shore D 65 | | | | | | | | | | | |

| | | NB | | | | | |
|-----------------------|--------------------------------------|---|--------|--------|--------|--------|--------|
| Model code | | NB0425 | NB0640 | NB0860 | NB1075 | NB1290 | NB1613 |
| Size | O.D.×I.D. (mm) | 4×2.5 | 6×4 | 8×6 | 10×7.5 | 12×9 | 16×13 |
| | Tube length (m) | 20 · 100 | | | | | 20 |
| Tube color: 12 colors | Black (B) | | | ○ | | | ○ |
| | Red (R) | | | ○ | | | △ |
| | Orange (O) | | | △ | | | △ |
| | Ocher (YB) | | | △ | | | △ |
| | Yellow (Y) | | | ○ | | | △ |
| | Green (G) | | | △ | | | △ |
| | Blue (BU) | | | ○ | | | ○ |
| | Clear blue (CB) | | | ○ | | | △ |
| | Milky white (W) | | | ○ | | | ○ |
| | Brown (BR) | | | △ | | | △ |
| | Yellow green (YG) | | | △ | | | △ |
| | Pink (P) | | | △ | | | △ |
| Specifications | Fluid medium | Air, Water (Conditional ^{**1}), Heat medium oil (Conditional ^{**1}) | | | | | |
| | Max. operating pressure (MPa) | 1.3 (65% RH at 20°C ^{**2}) | | | | | |
| | Max. vacuum (kPa) | -100 | | | | | |
| | Operating temp. range (°C) | Air: -20 to 100 (No freezing) Water, Heat medium oil: -15 to 90 (No freezing) | | | | | |
| | Min. bending radius (JIS) (mm) | 9 | 14 | 25 | 30 | 34 | 80 |
| | Min. installation radius (Vice) (mm) | 14 | 21 | 40 | 46 | 54 | 94 |
| Tube hardness (Ref) | shore D 58 | | | | | | |

△ Warning

- *1. The following conditions must be observed when the fluid medium is water or heat medium oil.
- (1) Surge pressure must be controlled lower than max. operating pressure when using water or heat medium oil as a fluid medium.
 - (2) General tap water in Japan, free from foreign substances or contamination, can be used. Carry out the evaluation under an actual operating condition for using other kind of water.
 - (3) Be sure to place Insert Ring (WR) into the tube edge when tube is inserted into push-in fittings and using water as a fluid medium.
- *2. The value of max. operating pressure is measured at 20°C and 65% RH. For other temperatures, the Burst Pressure Curve should be used with a sufficient safety margin.

Burst Pressure Curve (Reference Value)



RoHS2 (2011/65/EU+EU2015/863) compliant

| Tube type | Model code | Model code | Tube type | Model code |
|------------------|-----------------------------|-----------------------------|-----------------------|-----------------------------|
| Nylon Tube NA | NA0425- <u>3</u> - <u>4</u> | NA1/8- <u>3</u> - <u>4</u> | Soft Nylon Tube NB | NB0425- <u>3</u> - <u>4</u> |
| | NA0640- <u>3</u> - <u>4</u> | NA3/16- <u>3</u> - <u>4</u> | | NB0640- <u>3</u> - <u>4</u> |
| | NA0860- <u>3</u> - <u>4</u> | NA1/4- <u>3</u> - <u>4</u> | | NB0860- <u>3</u> - <u>4</u> |
| | NA1075- <u>3</u> - <u>4</u> | NA3/8- <u>3</u> - <u>4</u> | | NB1075- <u>3</u> - <u>4</u> |
| | NA1290- <u>3</u> - <u>4</u> | NA1/2- <u>3</u> - <u>4</u> | | NB1290- <u>3</u> - <u>4</u> |
| | NA1613-20- <u>4</u> | | | NB1613-20- <u>4</u> |

Notes

- *1. Tubes with desired length are available as make-to-order items. Contact us for the price.
- *2. For 3 in model code, please select a code of tube length, for 4, please select a tube color code.



Packaging specifications

20 M lengths/bag: Applicable to all types
100 M lengths/box: All types except NA1613, NB1613 and NA5/8

Related product



Tube End Marker (not for sale)

- ▶ Enables to mark the tube insertion dimension and prevent insufficient insertion.
- ▶ Can be used for PISCO Push-in fittings.

Contact us for more information about Tube End Markers.