

# FEP Tubing

Affordable fluoro resin tubing,  
which plays an important part in multidiscipline fields.

## Excellent cost-performance fluorine tube

Almost equivalent chemical resistance to Pisco's existing fluorine (PFA) tube.

## Corresponding to clean-room package specification

## Durable performance

Operating temperature range: -85~390°F

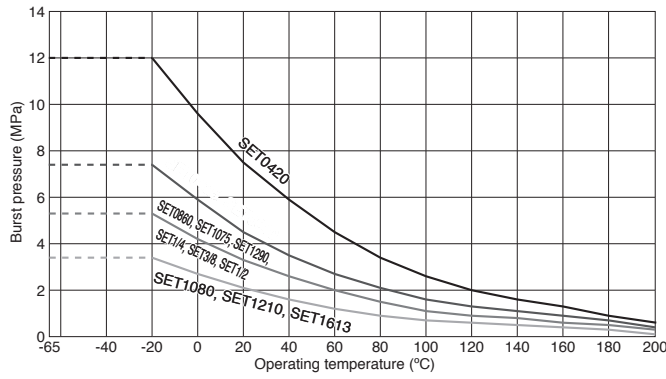


### Specification

|                         |   |  |
|-------------------------|---|--|
| Fluid medium            | Air, water (*1~*3), chemical, etc (*4)  |  |
| Max. operating pressure | SET0420 : 390psi (2.7MPa),<br>SET0425, 0640 : 230psi (1.6MPa),<br>SET0860, 1075, 1290, 1/4, 3/8, 1/2 : 145psi (1.0MPa),<br>SET1080, 1210, 1613 : 100psi (0.7MPa)<br>(65%RH at 58°F (20°C) *5) |  |
| Max. vacuum             | -29.5in. Hg (-100kPa)   |  |
| Operating temp. range   | -85 ~ 390°F (-65 ~ 200°C) (No freezing)   |  |

- \*1. Tap water can be admitted. Please make inquiries for other types of fluid.
- \*2. When the fluid medium is water or liquid, limit the level of surge pressure to the maximum operating pressure or less.
- \*3. Please make sure to use Insert-ring (tube core protection pipe) inside a tube when using water or liquid on quick fitting joint for preventing bust-out of tube.
- \*4. Since these are cases where our specifications may differ from others in some respects for chemicals, mixed gases, or etc., please make inquiries about the use of chemicals to the nearest sales offices.
- \*5. Max. operating pressure is the value at 65% RH at 58°F (20°C). When using on other temperatures, please take enough safety margin judging from the burst pressure curve on the right.

## Burst Pressure Curve (Reference Value)



## Model Designation (Example)



①. Fluoro resin (FEP) Tube

②. Tube dia. (O.D./I.D.)

| Code | inch size |         |         | mm size |        |      |      |        |       |       |       |       |
|------|-----------|---------|---------|---------|--------|------|------|--------|-------|-------|-------|-------|
|      | 1/4       | 3/8     | 1/2     | 0420    | 0425   | 0640 | 0860 | 1075   | 1080  | 1290  | 1210  | 1613  |
| O.D. | ø6.35mm   | ø9.53mm | ø12.7mm | ø4mm    | ø4mm   | ø6mm | ø8mm | ø10mm  | ø10mm | ø12mm | ø12mm | ø16mm |
| I.D. | ø4.57mm   | ø6.99mm | ø9.56mm | ø2mm    | ø2.5mm | ø4mm | ø6mm | ø7.5mm | ø8mm  | ø9mm  | ø10mm | ø13mm |

\* 0420, 0425, 0860, 1613 may be used as 5/32" O.D., 5/16" O.D., 5/8" O.D. inch size respectively.

③. Tube length

| Code   | 5  | 20  | 50  | 100  |
|--------|----|-----|-----|------|
| Length | 5m | 20m | 50m | 100m |

\* No 100m length for SET1613.

⑤. Package option

| Code          | No code          | C                 |
|---------------|------------------|-------------------|
| Specification | Standard package | Cleanroom package |

④. Tube color

| Code  | C           | B     |
|-------|-------------|-------|
| Color | Translucent | Black |

## SET Fluoro resin (FEP) Tube



| Model               | Tube O.D. | Tube I.D. (ømm) | Tube length (m) | *3<br>psi (MPa)<br>58°F (20°C) 65%RH | Min. bending radius (JIS) (mm) | Min. mounting radius (VICE) (mm) | Weight (g) |     |
|---------------------|-----------|-----------------|-----------------|--------------------------------------|--------------------------------|----------------------------------|------------|-----|
| SET1/4-③-④⑤         | 1/4"      | 4.57            | 5·20·50·100     | 145 (1.0)                            | 14                             | 30                               | 34         |     |
| SET3/8-③-④⑤         | 3/8"      | 6.99            | 5·20·50·100     |                                      | 40                             | 60                               | 72         |     |
| SET1/2-③-④⑤         | 1/2"      | 9.56            | 5·20·50·100     |                                      | 47                             | 85                               | 120        |     |
| SET0420 (5/32)-③-④⑤ | 4mm       | 2               | 5·20·50·100     | 390 (2.7)                            | 7                              | 10                               | 22         |     |
| SET0425 (5/32)-③-④⑤ |           | 2.5             | 5·20·50·100     |                                      | 14                             | 20                               | 18         |     |
| SET0640-③-④⑤        | 6mm       | 4               | 5·20·50·100     | 230 (1.6)                            | 14                             | 30                               | 36         |     |
| SET0860 (5/16)-③-④⑤ | 8mm       | 6               | 5·20·50·100     |                                      | 27                             | 55                               | 50         |     |
| SET1075-③-④⑤        | 10mm      | 7.5             | 5·20·50·100     |                                      | 145 (1.0)                      | 40                               | 60         | 78  |
| SET1080-③-④⑤        |           | 8               | 5·20·50·100     | 100 (0.7)                            | 50                             | 100                              | 62         |     |
| SET1290-③-④⑤        | 12mm      | 9               | 5·20·50·100     | 145 (1.0)                            | 47                             | 80                               | 112        |     |
| SET1210-③-④⑤        |           | 10              | 5·20·50·100     |                                      | 100 (0.7)                      | 67                               | 150        | 76  |
| SET1613 (5/8)-③-④⑤  |           | 13              | 5·20·50         |                                      | 100 (0.7)                      | 94                               | 180        | 147 |

\*1. Please select a tube length for ③, and a tube color for ④.

\*2. When selecting a clean-room package option, please input "C" at ⑤.

\*3. Max. operating pressure

### Best suitable Pisco products used with fluorine (FEP) tube.

- Equipments made of Stainless steel (quick-fitting, compression fitting, barb fitting) and controllers (speed controller and flow controller)
- All resin fitting
- Tube Fitting PP type (fittings, controllers (speed controller and flow controller))



Please consult the detailed safety instructions and chemical resistance on our web site: <http://www.pisco.co.jp> or Pisco office.