

Fluoropolymer (PFA) Tube

Straight Tube with Chemical and Heat Resistance

⚠ 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) Fluoropolymer (PFA) Tube

(2) Tube dia. (O.D. x I.D.)

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

	mm size (mm)									inch size (inch)		
Code	0420(5/32)	0425(5/32)	0640	0860(5/16)	1075	1080	1290	1210	1613(5/8)	1/4	3/8	1/2
O.D.	ø4	ø4	ø6	ø8	ø10	ø10	ø12	ø12	ø16	ø1/4	ø3/8	ø1/2
I.D.	ø2	ø2.5	ø4	ø6	ø7.5	ø8	ø9	ø10	ø13	ø0.18	ø0.28	ø0.38

(3) Tube length

Code	5	20	50	100
Length (m)	5	20	50	100

*100 m length is not available for SFT1613.

(4) Tube color

Code	B	C	CR	CY	CB
Tube color	Black	Transparent	Clear red	Clear yellow	Clear blue

*Only Transparent and Black colors are available for inch size.

(5) Packaging spec. (Optional)

Code	No code	-C
Packaging	Standard packaging	Clean-room package

*Clean room packaging is not available for SFT1613 or tube lengths longer than 50 m.

Characteristics

A choice of five colors for pipe identification

Excellent in chemical and weather resistance, suitable for chemical, medical and semiconductor industries.

Japan Food Sanitation Act compliant. (Transparent only.)

*Refer to P. 6 for details.

Extensive operating temperature range.

Superior interior surface smoothness, transparency and purity.

Inch size models, perfect to be used with the inch-sized SUS316 Compression Fitting, are available.

● Clean-room package (Optional)

Suitable for clean environment.

Cleaned and packaged in cleanroom ISO class 6 equivalent. Packaged in antistatic packaging material that prevents dust from sticking.

Specifications

		mm size (mm)								inch size (inch)			
Model code		SFT0420 (5/32")	SFT0425 (5/32")	SFT0640	SFT0860 (5/16")	SFT1075	SFT1080	SFT1290	SFT1210	SFT1613 (5/8")	SFT1/4	SFT3/8	SFT1/2
Size	O.D. x I.D.	4×2	4×2.5	6×4	8×6	10×7.5	10×8	12×9	12×10	16×13	1/4x0.18	3/8x0.28	1/2x0.38
	Tube length (m)	5 · 20 · 50 · 100								5 · 20 · 50	5 · 20 · 50 · 100		
Tube color: 5 colors		Black (B), Transparent (C), Clear red (CR), Clear yellow (CY), Clear blue (CB)									Black (B), Transparent (C)		
Specifications	Fluid medium	Air, Water (Conditional *1), Other chemicals (Conditional *1)											
	Max. operating pressure (MPa) (*2)	2.4	1.4	1		0.8	1	0.8		1			
	Max. vacuum (kPa)	-100											
	Operating temp. range (°C)	-65 to 260 (No freezing)											
	Min. bending radius (JIS) (mm)	7	14	27	40	50	47	67	94	14	40	47	
	Min. installation radius (Vice) (mm)	10	20	40	60	75	70	100	140	20	60	70	

⚠ Warning

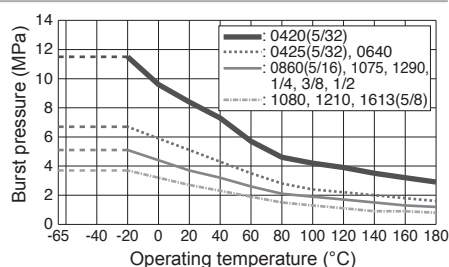
*1. The following conditions must be observed when the fluid medium is water or liquid.

- (1). When using water or liquid, the surge pressure must be kept below the maximum operating pressure.
- (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.
- (4). As for chemicals, mixed gas, etc., they may vary depending on the conditions of use, so please check the compatibility of our specifications before use.

*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.

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

Burst Pressure Curve (Reference Value)



Notes

*For (3) in model code, please select a code of tube length, for (4), please select a tube color code.

Packaging specifications

5 M lengths / bag: Applicable to all types
20 M lengths / bag: Applicable to all types
50 M lengths / bag: Applicable to all types
100 M lengths / box: All types except SFT1613

Option

(5) : -C ⇒ Clean-room package

Tube type	Model Code
Fluoropolymer (PFA) Tube SFT	SFT0420-(3)-(4)(5)
	SFT0425-(3)-(4)(5)
	SFT0640-(3)-(4)(5)
	SFT0860-(3)-(4)(5)
	SFT1075-(3)-(4)(5)
	SFT1080-(3)-(4)(5)
	SFT1290-(3)-(4)(5)
	SFT1210-(3)-(4)(5)
	SFT1613-(3)-(4)
	SFT1/4-(3)-(4)(5)
	SFT3/8-(3)-(4)(5)
	SFT1/2-(3)-(4)(5)

■ SFT Tube Chemical-proof Properties (The chemicals below may be used. (Max. operating temperature: 100°C))

*This document shows the general experimental results of the materials, not guaranteed properties for the products. Therefore, be sure to evaluate the products in an actual system when using chemicals.

■ Acid

Acetic acid 50%	Glacial acetic acid	Benzoic acid	Benzenesulfonic acid	Chlorosulfonic acid	Chromic acid 50%
Citric acid	Formic acid	Hydrobromic acid 50%	Hydrochloric acid 10%	Hydrochloric acid 35%	Hydrofluoric acid 30%
Hydrofluoric acid 70%	Nitric acid 10%	Nitric acid 50%	Fuming nitric acid	Oxalic acid	Phenol 10%
Phenol 100%	Phthalic acid	Phosphoric acid 30%	Phosphoric acid 85%	Succinic acid	Sulfuric acid 50%
Sulfuric acid 85%	Sulfuric acid 98%	Fuming sulfuric acid			

■ Ether/Ketone

Acetone 10%	Acetone 100%	Acetophenone	Dimethylformamide	Ethyl ether	Ethyl acetate
Ethylene oxide	Ethylene glycol	Glycerine	Methyl cellosolve	Methyl ethyl ketone	Triethyl phosphate

■ Base

Ammonia solution 30%	Aniline	Barium hydroxide	Calcium hydroxide	Hexamethylene diamine	Magnesium hydroxide
Propylamine	Sodium carbonate	Sodium hydroxide 10%	Sodium hydroxide 50%		

■ Oxidizer

Sulfur dioxide	Hydrogen peroxide 30%	Chlorine dioxide 15%	Nitrogen dioxide	Ozone	Potassium chlorate
Potassium permanganate	Calcium hypochlorite 17%	Benzoyl peroxide			

■ Gas

Anhydrous ammonia	Carbon dioxide	Hydrogen	Methane	Hydrogen sulfide
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■ Halogenated hydrocarbon

Allyl chloride	Carbon tetrachloride	Benzene chloride	Chloroform	Ethylene dichloride	Ethylene bromide
Freon R-113 (coolant)					

■ Aromatic hydrocarbon

Benzene	Naphthalene	Toluene
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