

Tube Fitting Chemical Series

Characteristics

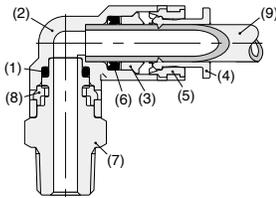
- The fitting is made of PPS (polyphenylene sulfide), which possesses excellent heat resistance, noncombustible (UL94 V-0 equivalent) and chemical resistance and the seal is made of fluorine rubber, to meet a wide variety of applications.
- There is no need to worry about rust because the Fitting is all-resin made. Since it conforms to the Food Sanitation Act and has completely oil-prohibited specifications, it is best suitable for food-related applications.
- One-touch mechanism contributes to easy fitting of tubes.
- The weight is about 1/3 that of standard fitting, and 1/5 that of SUS316 compression fitting.
- It is compatible with special rubber specifications (Material: EPDM and NBR).

Specifications

Fluid medium	Air, water *1, *2, other chemicals *1, *2, *3
Max. operating pressure	130psi (0.9MPa)
Max. vacuum	-29.5in. Hg (-100kPa)
Operating temp. range	32 ~ 176°F (0 ~ 80°C)

- *1. When using water and other liquids with our resin fitting, limit the level of surge pressure to the maximum operating pressure or less.
 *2. When using water and other liquids with our resin fitting, we recommend that insert ring be fitted.
 *3. Since there are cases where our specifications may differ from others in some respects for chemicals, solvents, mixed gases, etc., please make inquiries to the nearest sales office.

Construction



No	Parts	Material
(1)	O-ring	FKM *
(2)	Resin body	PPS GF30%
(3)	Tapered sleeve	PPS GF30%
(4)	Collet	PPS GF30%
(5)	Tapered bush	PPS GF30%
(6)	Elastic sleeve	FKM *
(7)	Screw component	PPS GF30%
(8)	C-ring	PPS GF30%
(9)	Tube	fluoric or polyamide

* Sealing material can be changed to EPDM or NBR. BTO: built to order manufacturing.

Model Designation (Example)



- (1) Type
 (2) Tube dia. (øD)

Code	mm size			
	4	6	10	12
Dia.	ø4	ø6	ø8	ø10

- (3) Thread size (T)

Code	01	02	03	04
Size	R1/8	R1/4	R3/8	R1/2

*In case (3) is tube size, please choose from (2).

- (4) Seal rubber material

Code	No code	E	N
Material	FKM	EPDM	NBR

- (5) Package option

Code	No code	C
Specification	Standard package	Cleanroom package

- (6) Thread sealing option

TP: Seal tape is applied
 No code: No seal tape is applied

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 Quick-Fitting Joint" on page 18 to 19.

- ⚠Warnings:
1. When using liquids and gases (such as chemicals, solvents, mixed gases, etc.) with our resin fitting, please confirm the chemical resistance. Depending on the operating conditions involved, there is danger of the fitting being broken, tube components coming off as well as the risk of leaks.
 2. Do not use fitting under conditions in where they will be exposed to vibrations/shocks. Using them in said conditions can cause breakage of joint, tubes to fall off, and resulting in leaks.
- ⚠Cautions:
1. Although polyphenylene sulfide (PPS) resins tend to change color when exposed to direct sunlight, fluorescent lighting, mercury lamps, high-temperature environments, etc., the discoloration will not affect the resin's physical performance.
 2. Take care when using tapered thread for installation of pipes because these screws have not been given Sealock treatment. When using sealing tape or applying agents on thread, wind the tape or apply sealants around the spiral ridges while leaving 1.5 ~ 2 ridges free from the bottom of thread.
 3. As for tightening of resin made taper pipe thread, tighten it by hand until it stops. Then, re-tighten it about 2 ~ 3 rotations by a spanner or other tools. Do not over-tighten the thread, otherwise it may cause damage to it. In case of short tightening, it may cause slack and leakage.
 4. Since the resin type thread may cause loosen and a small amount of leak due to creeping, inspections and re-tightening them should be conducted. Please conduct replacement when there is not improvement by re-tightening.
 5. Please conduct safety measures like putting protect cover etc. in case there may be a possibility to cause damages or accidents to equipments by the leakage of admitted fluids.



The products listed in this page are ECO-friendly products.

* Please refer to page 4 for the details of ECO-friendly products.

APC	Model	APL	Model	APB	Model
Straight øD	APCøD-T (4)(5)(6)	Elbow øD	APLøD-T (4)(5)(6)	Branch Tee øD	APBøD-T (4)(5)(6)
	APC4-01 (4)(5)(6)		APL4-01 (4)(5)(6)		APB4-01 (4)(5)(6)
	APC6-01 (4)(5)(6)		APL6-01 (4)(5)(6)		APB6-01 (4)(5)(6)
	APC6-02 (4)(5)(6)		APL6-02 (4)(5)(6)		APB6-02 (4)(5)(6)
	APC6-03 (4)(5)(6)		APL6-03 (4)(5)(6)		APB6-03 (4)(5)(6)
	APC8-01 (4)(5)(6)		APL8-01 (4)(5)(6)		APB8-01 (4)(5)(6)
	APC8-02 (4)(5)(6)		APL8-02 (4)(5)(6)		APB8-02 (4)(5)(6)
	APC8-03 (4)(5)(6)		APL8-03 (4)(5)(6)		APB8-03 (4)(5)(6)
	APC10-02 (4)(5)(6)		APL10-02 (4)(5)(6)		APB10-02 (4)(5)(6)
	APC10-03 (4)(5)(6)		APL10-03 (4)(5)(6)		APB10-03 (4)(5)(6)
	APC12-02 (4)(5)(6)		APL12-02 (4)(5)(6)		APB12-02 (4)(5)(6)
	APC12-03 (4)(5)(6)		APL12-03 (4)(5)(6)		APB12-03 (4)(5)(6)
APC12-04 (4)(5)(6)	APL12-04 (4)(5)(6)	APB12-04 (4)(5)(6)			
APU Union Straight øD	APUøD (4)(5)	APV Union Elbow øD	APVøD (4)(5)	APE Union Tee øD	APEøD (4)(5)
	APU4 (4)(5)		APV4 (4)(5)		APE4 (4)(5)
	APU6 (4)(5)		APV6 (4)(5)		APE6 (4)(5)
	APU8 (4)(5)		APV8 (4)(5)		APE8 (4)(5)
APU10 (4)(5)	APV10 (4)(5)	APV10 (4)(5)	APE10 (4)(5)		
APU12 (4)(5)	APV12 (4)(5)	APV12 (4)(5)	APE12 (4)(5)		
APY Union Y øD	APYøD (4)(5)	APIG Unequal Union Stem øD ₁	APIGøD-øD ₂ (4)		
	APY4 (4)(5)		APIG6-4 (4)		
	APY6 (4)(5)		APIG8-6 (4)		
	APY8 (4)(5)		APIG10-8 (4)		
	APY10 (4)(5)		APIG12-10 (4)		
APY12 (4)(5)					



Caution

* The model with low sales average may be build to order production. For details, please contact Pisco sales office or sales representative.



Package specification

1 pc. in a bag



Options

- *1. For (4), please select a seal rubber material.
- *2. For (5), please select a pkg option.
- *3. For (6), please select a thread sealing option.