Tube Fitting PP Series

Characteristics

- PP (Polypropylene) is selected for the body material to adapt to clean environment.
- The thread material can be chosen from PP or SUS304 depending on applications.
- In order to meet various field of application, SUS304 is used for metal material; EPDM for seal material and complete oil prohibited specification is applied.
- No metal component is exposed to fluid admitted except for SUS304 screw type.
- Clear (semitransparent) color used for the resin body makes it possible to check visually the fluid (liquid) inside and sanitary condition.
- The weight of all PP made type is less than half of the standard Tube Fitting series.
- Washed and packaged in ISO class 6 clean-room.

Construction
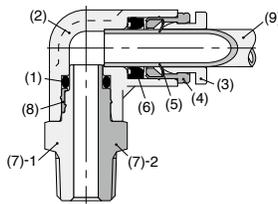
No	Parts	Material
(1)	O-ring	EPDM
(2)	Resin body	PP
(3)	Release ring	PP
(4)	Guide ring	SUS304
(5)	Lock claws	Stainless steel
(6)	Elastic sleeve	EPDM
(7)-1	Screw body	PP (screw material: PP)
(7)-2		SUS304 (screw material: SUS304)
(8)	Press fitted ring	SUS304
(9)	Tube	fluoric or polyamide or clean-room ready

* The gasket material of metric (M) thread is SUS304 + EPDM.

Model Designation (Example)

PP C 6 - 01 SUS (6) (7)
(1) (2) (3) (4) (5)

(1) Resin made (**PP**: Polypropylene) Tube Fitting

(2) Type

(3) Tube dia. (øD)

Code	4	6	8	10	12
Dia. (mm)	ø4	ø6	ø8	ø10	ø12

(4) Thread size (T) or Tube dia. (øD)

	Metric thread	Taper pipe thread			
Code	M5	01	02	03	04
Size	M5×0.8	R1/8	R1/4	R3/8	R1/2

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

(5) Screw material

Code	No code	SUS
Material	PP (Polypropylene)	SUS304

(6) Seal rubber material

Code	No code	F	N
Material	EPDM	FKM	NBR

(7) Package option

Code	No code	C
Specification	Standard package	Cleanroom package

(8) Thread sealing option (thread material: only SUS304 type)

Code	No code	S	TP
Sealock	Without sealock or seal tape	Sealock treated	Seal tape applied

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

Specifications

Fluid medium	**Air**, **water** *1, *2, **other chemicals** *1, *2, *3
Max. operating pressure	**150**psi (**1**MPa) (at 0 ~ 20°C) *4
Max. vacuum	**-29.5**in. Hg (**-100**kPa)
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 is fitted.

*3. Since there are cases where our specifications may differ from others in some respects for chemicals, solvents, mixed gases, etc. use, please make inquiries about these use to the nearest sales office.

*4. Please refer to the following "Chart of Operating Temp. & Max. Operating Pressure" for maximum operating pressure of the operating temperature exceeding 20°C.

Chart of Operating Temp. & Max. Operating Pressure
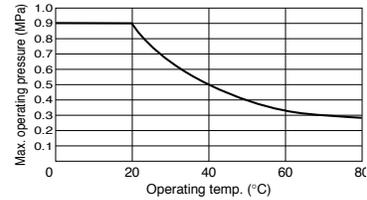
Detailed Safety Instructions

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 working 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 tubes to fall off, resulting in leaks.

⚠Cautions : 1. EPDM (seal material) is not suitable for general air piping as its inferior to mineral oil.
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 tightning 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 tightning, 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.
6. Because the fitting is oil-impervious specification, installation of tube is harder than standard fitting. Please make sure to check if the tube is inserted to the tube end of the fitting. Applying a fluid, which is acceptable for the application, on the tube improve the insertability.

Thread material: PP

PPC Straight øD	Model	**PPL** Elbow øD	Model	**PPB** Branch Tee øD	Model	**PPD** Run Tee	Model	**PPX** Branch Y øD	Model	
	PPCøD-T ⑥⑦⑧		PPLøD-T ⑥⑦⑧		PPBøD-T ⑥⑦⑧		PPDøD-T ⑥⑦⑧		PPXøD-T ⑥⑦⑧	
	PPC4-01 ⑥⑦⑧		PPL4-01 ⑥⑦⑧		PPB4-01 ⑥⑦⑧		PPD4-01 ⑥⑦⑧		PPX4-01 ⑥⑦⑧	
	PPC4-02 ⑥⑦⑧		PPL4-02 ⑥⑦⑧		PPB4-02 ⑥⑦⑧		PPD4-02 ⑥⑦⑧		PPX4-02 ⑥⑦⑧	
	PPC6-01 ⑥⑦⑧		PPL6-01 ⑥⑦⑧		PPB6-01 ⑥⑦⑧		PPD6-01 ⑥⑦⑧		PPX6-01 ⑥⑦⑧	
	PPC6-02 ⑥⑦⑧		PPL6-02 ⑥⑦⑧		PPB6-02 ⑥⑦⑧		PPD6-02 ⑥⑦⑧		PPX6-02 ⑥⑦⑧	
	PPC6-03 ⑥⑦⑧		PPL6-03 ⑥⑦⑧		PPB6-03 ⑥⑦⑧		PPD6-03 ⑥⑦⑧		PPX6-03 ⑥⑦⑧	
	PPC8-01 ⑥⑦⑧		PPL8-01 ⑥⑦⑧		PPB8-01 ⑥⑦⑧		PPD8-01 ⑥⑦⑧		PPX8-01 ⑥⑦⑧	
	PPC8-02 ⑥⑦⑧		PPL8-02 ⑥⑦⑧		PPB8-02 ⑥⑦⑧		PPD8-02 ⑥⑦⑧		PPX8-02 ⑥⑦⑧	
	PPC8-03 ⑥⑦⑧		PPL8-03 ⑥⑦⑧		PPB8-03 ⑥⑦⑧		PPD8-03 ⑥⑦⑧		PPX8-03 ⑥⑦⑧	
	PPC10-02 ⑥⑦⑧		PPL10-02 ⑥⑦⑧		PPB10-02 ⑥⑦⑧		PPD10-02 ⑥⑦⑧		PPX10-02 ⑥⑦⑧	
	PPC10-03 ⑥⑦⑧		PPL10-03 ⑥⑦⑧		PPB10-03 ⑥⑦⑧		PPD10-03 ⑥⑦⑧		PPX10-03 ⑥⑦⑧	
	PPC12-03 ⑥⑦⑧		PPL12-03 ⑥⑦⑧		PPB12-03 ⑥⑦⑧		PPD12-03 ⑥⑦⑧		PPX12-03 ⑥⑦⑧	
	PPC12-04 ⑥⑦⑧		PPL12-04 ⑥⑦⑧		PPB12-04 ⑥⑦⑧		PPD12-04 ⑥⑦⑧		PPX12-04 ⑥⑦⑧	

⚠ 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 ⑥ , please select a seal rubber material.
*2. For ⑦ , please select a pkg option.
*3. For ⑧ , please select a thread sealing option.

Fitting · Control · Valve · Vacuum · Actuator · Tube · Plarailchain · Robot Parts