

Tube Fitting PP/SUS304

Resin (PP) made Push-in fitting for clean environment (Metal part is SUS304)

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 Fitting PP Series/SUS304

(2) Type

(3) Tube dia. (øD)

Code	mm size					inch size		
	4*	6	8*	10	12	1/4	3/8	1/2
Tube O.D.	mm	ø4	ø6	ø8	ø10	ø12	—	—
	inch	ø5/32	—	ø5/16	—	—	ø1/4	ø3/8

* Apply the code "4" for ø5/32in., and "8" for ø5/16in.

(4) Thread size (R)

Code	Metric thread		Taper pipe thread				National pipe thread tapered			
	M3	M5	01	02	03	04	N1	N2	N3	N4
Thread size	M3×0.5	M5×0.8	R1/8	R1/4	R3/8	R1/2	NPT1/8	NPT1/4	NPT3/8	NPT1/2

*1. In case that (4) indicates tube dia., select tube dia. from table (3).

*2. FDA spec. (-FDA) is not available with metric thread.

*3. SUS304 thread body material option (SUS) is not available with NPT thread.

(5) Thread body material

Code	No code	SUS
Material	PP(Polypropylene)	SUS304

* SUS304 thread body material option (SUS) is not available with NPT thread.

(6) Seal rubber material (Optional)

Code	No code	-F (*1)	-HN(*2)
Material	EPDM	FKM	HNBR

*1. Not available with Clean-wash spec. (-UC) or FDA spec. (-FDA).

*2. Not available with FDA spec. (-FDA).

(7) Thread sealing spec. (Optional) (Taper pipe thread only)

Code	No code	-S(*1)	-TP(*2)
Thread sealing	No Sealock, No Sealing tape	With Sealock coating	Seal tape spec. (Seal tape is applied on thread part)

*1. Not available if the thread material is PP, or FDA spec. is selected.

*2. Not available with Clean-wash spec. (-UC) or FDA spec. (-FDA).

(8) Wash & Packaging spec. (Optional)

Code	No code	-C (*1)	-UC (*1)
Spec.	Standard pkg. without clean-wash	Clean-room pkg. without clean-wash	Clean-room pkg. with clean-wash

* Not available with FDA spec. (-FDA).

(9) FDA spec. (Optional)

Code	No code	-FDA(*1.2)
Spec.	Standard spec.	FDA spec.

*1. FDA spec. (-FDA)

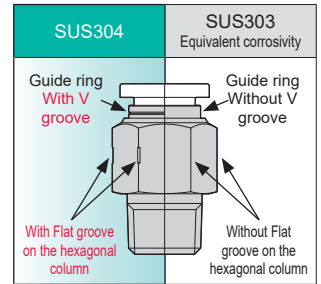
1. Not available with metric thread.

2. FDA spec. is available only with (6) EPDM, (7) No thread sealing, and (8) Standard pkg. without clean-wash.

3. FDA complaint grease is applied on the seal rubber part. (Not oil-free spec.)

*2. Plug (PPP) type corresponds to FDA spec. as standard.

How to identify similar products



* When the screw body is made of resin, only the guide ring part can be identified.

Characteristics

PP (Polypropylene) is selected for the body material to adapt to clean environment.

Metal material is SUS304 and EPDM is used for seal material.

The sealing rubber can be changed to FKM or HNBR depending on the application.

Oil-free specification meets needs in a wide range of fields.

* Excluding FDA specification.

Food Sanitation Act (Japan) compliant. (Excluding Sealock coating type.)

* See page 6 for details.

NEW Options with FDA (U.S. Food and Drug Administration) compliant parts are available.

- Resin body: compliant with 21CFR§177.1520 Olefin polymers (a)(3)(i),(b),(c)3.1a.
- Rubber material: compliant with a dissolution testing in 21CFR § 177.2600 Rubber articles intended for repeated use
- Grease: compliant with NSF-H1

Visible Fluid by Transparent Body Color.

Easy to check sanitary conditions visually.

Thread body material: Resin (PP) and SUS304. Resin screws have no exposed metal in the wetted parts and weight is less than half of the standard tube fitting.

Seal tape or Sealock coating on thread options available.

* Only sealing tape is available for resin thread body

NEW Inch tube size and NPT thread are available.

* NPT thread is not available with SUS304 material (SUS).

● Clean-room pkg. spec. (Optional)

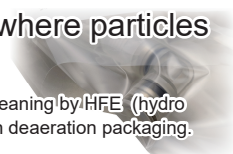
Best suitable for piping in clean environment.

The products are washed by clean air, then packed in ISO class 6 equivalent clean-room.

● Clean-wash spec. (Optional)

For manufacturing process where particles and oil should be avoided.

The product goes through vacuum ultrasonic cleaning by HFE (hydro fluoro ether) in a clean-room and is packed with deaeration packaging.



Specifications

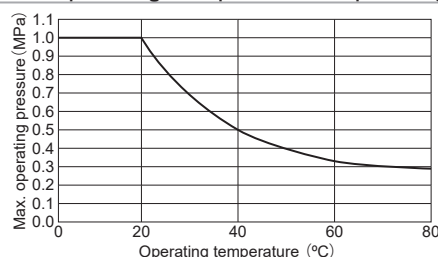
Fluid medium	Air, Water (Conditional* ¹), Other chemicals (Conditional* ¹)
Max. operating pressure	1.0 MPa (at 0 to 20°C) * ²
Max. vacuum	-100 kPa
Operating temp. range	Without Sealock coating: 0 to 80°C (no freezing) With Sealock coating: 0 to 60°C (no freezing)

*1. Make sure to follow the instructions below 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 use Insert Ring (WR) when using water or liquid 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.

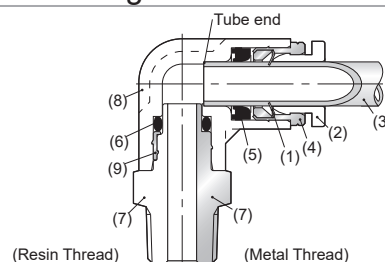
*2. When operating temp. exceeds 20°C, refer to the following chart "Relation of Operating Temp. & Max. Operating Pressure".

Relation of Operating Temp. & Max. Operating Pressure



Sectional drawing

Elbow type: PPL



Thread material		Resin	Metal
No.	Parts	Material	
(1)	Lock claws	Stainless steel	
(2)	Release-ring	PP	
(3)	Tube	Fluororesin, Polyolefin, Clean-room pkg. etc.	
(4)	Guide ring	SUS304	
(5)	Elastic sleeve	EPDM	
(6)	O-ring	EPDM	
(7)	Thread body	PP	SUS304 *
(8)	Resin body	PP	
(9)	Press fitted ring	SUS304	—

* Gaskets are attached to a metal type of M3 and M5 threads. Gasket material is shown below.

When rubber material is EPDM (standard spec.): SUS304 + EPDM

When Rubber Material is FKM : SUS316 + FKM

When Rubber Material is HNBR : SUS304 + HNBR

Tube Fitting PP/SUS304

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

Thread body material: PP			
Type	Model code PPCøD-R 6789	Type	Model code PPLøD-R 6789
Straight PPC  øD R Notes * For standard model codes with NPT thread, please see "Type & Price list" on our website.	Tube size: mm	Elbow PPL  øD R Notes * For standard model codes with NPT thread, please see "Type & Price list" on our website.	Tube size: mm
	PPC4-01 6789		PPL4-01 6789
	PPC4-02 6789		PPL4-02 6789
	PPC6-01 6789		PPL6-01 6789
	PPC6-02 6789		PPL6-02 6789
	PPC6-03 6789		PPL6-03 6789
	PPC8-01 6789		PPL8-01 6789
	PPC8-02 6789		PPL8-02 6789
	PPC8-03 6789		PPL8-03 6789
	PPC10-02 6789		PPL10-02 6789
	PPC10-03 6789		PPL10-03 6789
	PPC12-02 6789		PPL12-02 6789
	PPC12-03 6789		PPL12-03 6789
	PPC12-04 6789		PPL12-04 6789
	Tube size: inch		Tube size: inch
	PPC1/4-01 6789		PPL1/4-01 6789
	PPC1/4-02 6789		PPL1/4-02 6789
	PPC1/4-03 6789		PPL1/4-03 6789
	PPC3/8-02 6789		PPL3/8-02 6789
	PPC3/8-03 6789		PPL3/8-03 6789
	PPC1/2-03 6789		PPL1/2-03 6789
	PPC1/2-04 6789		PPL1/2-04 6789

Thread body material : SUS304			
Type	Model code PPCøD-RSUS 6789	Type	Model code PPLøD-RSUS 6789
Straight PPC  øD R Notes * NPT thread is not available with SUS304 material.	Tube size: mm	Elbow PPL  øD R Notes * NPT thread is not available with SUS304 material.	Tube size: mm
	PPC4-M3SUS 68		PPL4-M3SUS 68
	PPC4-M5SUS 68		PPL4-M5SUS 68
	PPC4-01SUS 6789		PPL4-01SUS 6789
	PPC4-02SUS 6789		PPL4-02SUS 6789
	PPC6-M5SUS 68		PPL6-M5SUS 68
	PPC6-01SUS 6789		PPL6-01SUS 6789
	PPC6-02SUS 6789		PPL6-02SUS 6789
	PPC6-03SUS 6789		PPL6-03SUS 6789
	PPC8-01SUS 6789		PPL8-01SUS 6789
	PPC8-02SUS 6789		PPL8-02SUS 6789
	PPC8-03SUS 6789		PPL8-03SUS 6789
	PPC10-02SUS 6789		PPL10-02SUS 6789
	PPC10-03SUS 6789		PPL10-03SUS 6789
	PPC12-03SUS 6789		PPL12-03SUS 6789
	PPC12-04SUS 6789		PPL12-04SUS 6789
	Tube size: inch		Tube size: inch
	PPC1/4-M5SUS 68		PPL1/4-M5SUS 68
	PPC1/4-01SUS 6789		PPL1/4-01SUS 6789
	PPC1/4-02SUS 6789		PPL1/4-02SUS 6789
	PPC1/4-03SUS 6789		PPL1/4-03SUS 6789
	PPC3/8-02SUS 6789		PPL3/8-02SUS 6789
	PPC3/8-03SUS 6789		PPL3/8-03SUS 6789
	PPC1/2-03SUS 6789		PPL1/2-03SUS 6789
	PPC1/2-04SUS 6789		PPL1/2-04SUS 6789

- Notes**
 * For tube O.D. 5/32 inch, select tube O.D. 4 mm. For tube O.D. 5/16 inch, select tube O.D. 8mm.
- CAD**
 2D 3D
 CAD data is available at PISCO website.
- Package**
 Packaging specifications
 1 pc. /bag

Options							
Code	6 : -F	6 : -HN	7 : -S	7 : -TP	8 : -C	8 : -UC	9 : -FDA
Spec.	Seal rubber FKM (Fill in 6 with "-F")	Seal rubber HNBR (Fill in 6 with "-HN")	Sealock coating *1 (Fill in 7 with "-S")	Seal tape *1 (Fill in 7 with "-TP")	Clean-room pkg. (Fill in 8 with "-C")	Clean-wash & Clean-room pkg. *2 (Fill in 8 with "-UC")	FDA spec. *3 (Fill in 9 with "-FDA")

*1 Sealock coating and sealing tape spec. are not available for metric thread.

*2 Rubber material: FKM and seal tape spec. ("-TP") are not available for Clean-wash spec.

*3 FDA spec. (-FDA) is not available with metric thread. Also, FDA spec. is available only with **6** EPDM, **7** No thread sealing, and **8** Standard pkg. without clean-wash.

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

Thread body material: PP			
Type	Model code PPBøD-R 6789	Type	Model code PPDøD-R 6789
Branch Tee PPB  Notes * For standard model codes with NPT thread, please see "Type & Price list" on our website.	Tube size: mm	Run Tee PPD  Notes * For standard model codes with NPT thread, please see "Type & Price list" on our website.	Tube size: mm
	PPB4-01 6789		PPD4-01 6789
	PPB4-02 6789		PPD4-02 6789
	PPB6-01 6789		PPD6-01 6789
	PPB6-02 6789		PPD6-02 6789
	PPB6-03 6789		PPD6-03 6789
	PPB8-01 6789		PPD8-01 6789
	PPB8-02 6789		PPD8-02 6789
	PPB8-03 6789		PPD8-03 6789
	PPB10-02 6789		PPD10-02 6789
	PPB10-03 6789		PPD10-03 6789
	PPB12-02 6789		PPD12-02 6789
	PPB12-03 6789		PPD12-03 6789
	PPB12-04 6789		PPD12-04 6789
	Tube size: inch		Tube size: inch
	PPB ¹ / ₄ -01 6789		PPD ¹ / ₄ -01 6789
	PPB ¹ / ₄ -02 6789		PPD ¹ / ₄ -02 6789
	PPB ¹ / ₄ -03 6789		PPD ¹ / ₄ -03 6789
	PPB ³ / ₈ -02 6789		PPD ³ / ₈ -02 6789
	PPB ³ / ₈ -03 6789		PPD ³ / ₈ -03 6789
	PPB ¹ / ₂ -03 6789		PPD ¹ / ₂ -03 6789
	PPB ¹ / ₂ -04 6789		PPD ¹ / ₂ -04 6789

Thread body material : SUS304			
Type	Model code PPBøD-RSUS 6789	Type	Model code PPDøD-RSUS 6789
Branch Tee PPB  Notes * NPT thread is not available with SUS304 material.	Tube size: mm	Run Tee PPD  Notes * NPT thread is not available with SUS304 material.	Tube size: mm
	PPB4-M3SUS 68		PPD4-M3SUS 68
	PPB4-M5SUS 68		PPD4-M5SUS 68
	PPB4-01SUS 6789		PPD4-01SUS 6789
	PPB4-02SUS 6789		PPD4-02SUS 6789
	PPB6-M5SUS 68		PPD6-M5SUS 68
	PPB6-01SUS 6789		PPD6-01SUS 6789
	PPB6-02SUS 6789		PPD6-02SUS 6789
	PPB6-03SUS 6789		PPD6-03SUS 6789
	PPB8-01SUS 6789		PPD8-01SUS 6789
	PPB8-02SUS 6789		PPD8-02SUS 6789
	PPB8-03SUS 6789		PPD8-03SUS 6789
	PPB10-02SUS 6789		PPD10-02SUS 6789
	PPB10-03SUS 6789		PPD10-03SUS 6789
	PPB12-03SUS 6789		PPD12-03SUS 6789
	PPB12-04SUS 6789		PPD12-04SUS 6789
	Tube size: inch		Tube size: inch
	PPB ¹ / ₄ -M5SUS 68		PPD ¹ / ₄ -M5SUS 68
	PPB ¹ / ₄ -01SUS 6789		PPD ¹ / ₄ -01SUS 6789
	PPB ¹ / ₄ -02SUS 6789		PPD ¹ / ₄ -02SUS 6789
	PPB ¹ / ₄ -03SUS 6789		PPD ¹ / ₄ -03SUS 6789
	PPB ³ / ₈ -02SUS 6789		PPD ³ / ₈ -02SUS 6789
	PPB ³ / ₈ -03SUS 6789		PPD ³ / ₈ -03SUS 6789
	PPB ¹ / ₂ -03SUS 6789		PPD ¹ / ₂ -03SUS 6789
	PPB ¹ / ₂ -04SUS 6789		PPD ¹ / ₂ -04SUS 6789

i Notes
 * For tube O.D. 5/32 inch, select tube O.D. 4 mm. For tube O.D. 5/16 inch, select tube O.D. 8mm.

CAD CAD data is available at PISCO website.

Package Packaging specifications 1 pc. /bag

Option Options

Code	6 : -F	6 : -HN	7 : -S	7 : -TP	8 : -C	8 : -UC	9 : -FDA
Spec.	Seal rubber FKM (Fill in 6 with "-F")	Seal rubber HNBR (Fill in 6 with "-HN")	Seallock coating *1 (Fill in 7 with "-S")	Seal tape *1 (Fill in 7 with "-TP")	Clean-room pkg. (Fill in 8 with "-C")	Clean-wash & Clean-room pkg. *2 (Fill in 8 with "-UC")	FDA spec. *3 (Fill in 9 with "-FDA")

*1 Seallock coating and sealing tape spec. are not available for metric thread.

*2 Rubber material: FKM and seal tape spec. ("-TP") are not available for Clean-wash spec.

*3 FDA spec. (-FDA) is not available with metric thread. Also, FDA spec. is available only with **6** EPDM, **7** No thread sealing, and **8** Standard pkg. without clean-wash.

Tube Fitting PP/SUS304

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

Thread body material: PP		Type	Model code PPUøD 689
Type	Model code PPXøD-R 6789	Union Straight PPU 	Tube size: mm
Branch Y PPX 	Tube size: mm		PPU4 689
	PPX4-01 6789		PPU6 689
	PPX4-02 6789		PPU8 689
	PPX6-01 6789		PPU10 689
	PPX6-02 6789		PPU12 689
	PPX6-03 6789		Tube size: inch
	PPX8-01 6789		PPU ¹ / ₄ 689
	PPX8-02 6789		PPU ³ / ₈ 689
	PPX8-03 6789		PPU ¹ / ₂ 689
	PPX10-02 6789	Unequal Union Straight PPG 	Model code PPGøD ₁ -øD ₂ 689
Notes * For standard model codes with NPT thread, please see "Type & Price list" on our website.	PPX10-03 6789		Tube size: mm
	PPX12-02 6789		PPG6-4 689
	PPX12-03 6789		PPG8-6 689
	PPX12-04 6789		PPG10-8 689
	PPX12-04 6789		PPG12-10 689
	Tube size: inch		Tube size: mm & inch
	PPX ¹ / ₄ -01 6789		PPG ¹ / ₄ -4 689
	PPX ¹ / ₄ -02 6789		PPG8- ¹ / ₄ 689
	PPX ¹ / ₄ -03 6789		PPG ³ / ₈ -8 689
	PPX ³ / ₈ -02 6789		Tube size: inch
Notes * NPT thread is not available with SUS304 material.	PPX ³ / ₈ -03 6789	Bulkhead Union P PPMP 	PPG ¹ / ₂ - ³ / ₈ 689
	PPX ¹ / ₂ -03 6789		Tube size: mm
	PPX ¹ / ₂ -04 6789		PPMP4 689
			PPMP6 689
			PPMP8 689
			PPMP10 689
			PPMP12 689
			Tube size: inch
			PPMP ¹ / ₄ 689
			PPMP ³ / ₈ 689
			PPMP ¹ / ₂ 689

i Notes
* For tube O.D. 5/32 inch, select tube O.D. 4 mm. For tube O.D. 5/16 inch, select tube O.D. 8mm.

CAD CAD data is available at PISCO website.

Package Packaging specifications 1 pc. /bag

Options							
Code	6 : -F	6 : -HN	7 : -S	7 : -TP	8 : -C	8 : -UC	9 : -FDA
Spec.	Seal rubber FKM (Fill in 6 with "-F")	Seal rubber HNBR (Fill in 6 with "-HN")	Seallock coating *1 (Fill in 7 with "-S")	Seal tape *1 (Fill in 7 with "-TP")	Clean-room pkg. (Fill in 8 with "-C")	Clean-wash & Clean-room pkg. *2 (Fill in 8 with "-UC")	FDA spec. *3 (Fill in 9 with "-FDA")

*1 Seallock coating and sealing tape spec. are not available for metric thread.

*2 Rubber material: FKM and seal tape spec. ("-TP") are not available for Clean-wash spec.

*3 FDA spec. (-FDA) is not available with metric thread. Also, FDA spec. is available only with **6** EPDM, **7** No thread sealing, and **8** Standard pkg. without clean-wash..

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

Type	Model code PPE ϕ D $\{689\}$	Type	Model code PPY ϕ D $\{689\}$
Union Tee PPE 	Tube size: mm	Union Y PPY 	Tube size: mm
	PPE4 $\{689\}$		PPY4 $\{689\}$
	PPE6 $\{689\}$		PPY6 $\{689\}$
	PPE8 $\{689\}$		PPY8 $\{689\}$
	PPE10 $\{689\}$		PPY10 $\{689\}$
	PPE12 $\{689\}$		PPY12 $\{689\}$
	Tube size: inch		Tube size: inch
	PPE $1/4$ $\{689\}$		PPY $1/4$ $\{689\}$
	PPE $3/8$ $\{689\}$		PPY $3/8$ $\{689\}$
	PPE $1/2$ $\{689\}$		PPY $1/2$ $\{689\}$
Type	Model code PPEG ϕ D $1-\phi$ D 2 $\{689\}$	Type	Model code PPW ϕ D $1-\phi$ D 2 $\{689\}$
Unequal Union Tee PPEG 	Tube size: mm	Unequal Union Y PPW 	Tube size: mm
	PPEG6-4 $\{689\}$		PPW6-4 $\{689\}$
	PPEG8-6 $\{689\}$		PPW8-6 $\{689\}$
	PPEG10-8 $\{689\}$		PPW10-8 $\{689\}$
	PPEG12-10 $\{689\}$		PPW12-10 $\{689\}$
	Tube size: mm & inch		Tube size: mm & inch
	PPEG $1/4-4$ $\{689\}$		PPW $1/4-4$ $\{689\}$
	PPEG8- $1/4$ $\{689\}$		PPW8- $1/4$ $\{689\}$
	PPEG $3/8-8$ $\{689\}$		PPW $3/8-8$ $\{689\}$
	Tube size: inch		Tube size: inch
	PPEG $1/2-3/8$ $\{689\}$		PPW $1/2-3/8$ $\{689\}$
Type	Model code PPGJ ϕ D $1-\phi$ D 2 $\{689\}$	Type	Model code PPP ϕ D $\{8\}$
Plug-in Reducer PPGJ 	Tube size: mm	Plug PPP 	Tube size: mm
	PPGJ6-4 $\{689\}$		PPP4 $\{8\}$
	PPGJ8-4 $\{689\}$		PPP6 $\{8\}$
	PPGJ8-6 $\{689\}$		PPP8 $\{8\}$
	PPGJ10-6 $\{689\}$		PPP10 $\{8\}$
	PPGJ10-8 $\{689\}$		PPP12 $\{8\}$
	PPGJ12-8 $\{689\}$		Tube size: inch
	PPGJ12-10 $\{689\}$		PPP $1/4$ $\{8\}$
	Tube size: mm & inch		PPP $3/8$ $\{8\}$
	PPGJ $1/4-4$ $\{689\}$		PPP $1/2$ $\{8\}$
	PPGJ8- $1/4$ $\{689\}$		
	PPGJ $3/8-8$ $\{689\}$		
	PPGJ $1/2-8$ $\{689\}$		
	Tube size: inch		
	PPGJ $3/8-1/4$ $\{689\}$		
	PPGJ $1/2-1/4$ $\{689\}$		
	PPGJ $1/2-3/8$ $\{689\}$		



Notes

* For tube O.D. 5/32 inch, select tube O.D. 4 mm. For tube O.D. 5/16 inch, select tube O.D. 8mm.



CAD data is available
at PISCO website.



Packaging specifications
1 pc. /bag



Options

Code	$\{6\}$: -F	$\{6\}$: -HN	$\{8\}$: -C	$\{8\}$: -UC	$\{9\}$: -FDA
Spec.	Seal rubber FKM (Fill in $\{6\}$ with "-F")	Seal rubber HNBR (Fill in $\{6\}$ with "-HN")	Clean-room pkg. (Fill in $\{8\}$ with "-C")	Clean-wash & Clean-room pkg. ^{*2} (Fill in $\{8\}$ with "-UC")	FDA spec. ^{*3} (Fill in $\{9\}$ with "-FDA")

^{*1} Sealock coating and sealing tape spec. are not available for metric thread.

^{*2} Rubber material: FKM and seal tape spec. ("-TP") are not available for Clean-wash spec.

^{*3} FDA spec. is available only with $\{6\}$ EPDM and $\{8\}$ Standard pkg. without clean-wash.

^{*4} Plug (PPP) type corresponds to FDA spec. as standard.