

# Check Valve PP with Low Cracking Pressure

Push-in fitting type resin Non-return valve for clean environment (Metal part 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) Check Valve PP with Low Cracking Pressure

### (2) Appearance spec.

L : Low crackig pressure type

### (3) Type

U : Union Straight

### (4) Tube dia. (øD)

Code	mm size (mm)					inch size (inch)				
	4-4	6-6	8-8	10-10	12-12	5/32-5/32	1/4-1/4	5/16-5/16	3/8-3/8	1/2-1/2
Tube O.D.	ø4	ø6	ø8	ø10	ø12	ø5/32	ø1/4	ø5/16	ø9/8	ø1/2

### (5) Seal rubber material (optional)

Code	No code	-F	-N
Material	EPDM	FKM	NBR

### (6) Packaging spec. (optional)

Code	No code	-C
Specifications	Standard package	Clean-room package

## Characteristics

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

Light weight resin type.

Water (liquid) can be used.

Clear (semitransparent) color used for the resin body makes it possible to check visually the fluid (liquid) inside.

Easy to check the sanitary condition.

Best suitable for the applications in which "No copper-based material is used", "low level ozone resistance" and "non-grease" specifications are required.

SUS304 is used for the metal parts. FKM is used for valve packing.

EPDM is used for elastic sleeve (FKM and NBR are optional).

Min. opening differential pressure is 5 kPa.

### • Clean-room package (Optional)

Best suitable for piping in clean environment.

Products are packed in a clean room equivalent to ISO class 6 after washed by clean air

Less noise generation compared to the conventional type.

No spring incorporated.

## Specifications

Fluid medium	Air, Water, Other chemicals (Conditiona I*1)
Max. operating pressure	1.0 MPa (at 0 to 20°C) *2
Max. vacuum	-100 kPa
Min. opening differential pressure *3	5 kPa (at 25°C)
Operating temp. range	0 to 80°C (For seal rubber material NBR: 0 to 60°C) (No freezing)
Min. checking differential pressure	0.01 MPa

### ⚠ Warning

\*1. When the fluid medium is water or other chemicals, be sure to read and follow the conditions below.

(1) Surge pressure must be controlled lower than max. operating pressure when using water or liquid as a fluid medium.

(2) Tap water in Japan, which is soft water (low mineral content) 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 (page 108) into the tube edge when using water or liquid as a fluid medium.

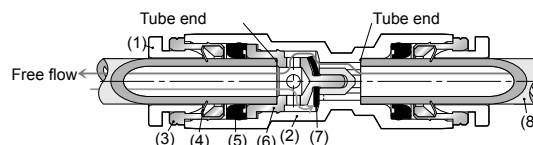
(4) The specification above may not be applied, depending on the kind of chemicals or mixed gases used as a fluid medium. Make sure to use PISCO products after verifying their suitability on the user side.

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

### ⊕ Notes

\*3. Min. opening differential pressure is the pressure when the valve begins to open, but not the pressure when the valve is fully open.

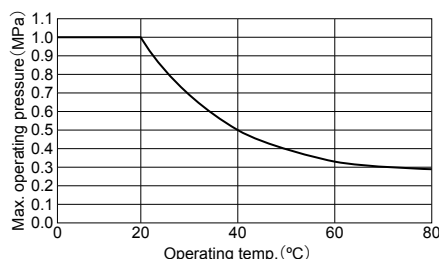
## Sectional drawing



No.	Parts	Material
(1)	Release-ring	PP
(2)	Resin body	PP
(3)	Guide ring	SUS304
(4)	Lock claws	Stainless steel
(5)	Elastic sleeve	EPDM
(6)	Valve retainer	SUS304
(7)	Valve packing	FKM
(8)	Tube	Fluororesin, Polyamide, Clean-room packaging tube, etc.

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

## Relation of Operating Temp. & Max. Operating Pressure



Type	Model code PCVLUøD-øD[5][6]	
Union Straight PCVLU øD	PCVLU4-4[5][6]	PCVLU <sup>5/32-5/32</sup> [5][6]
	PCVLU6-6[5][6]	PCVLU <sup>1/4-1/4</sup> [5][6]
	PCVLU8-8[5][6]	PCVLU <sup>5/16-5/16</sup> [5][6]
	PCVLU10-10[5][6]	PCVLU <sup>3/8-3/8</sup> [5][6]
	PCVLU12-12[5][6]	PCVLU <sup>1/2-1/2</sup> [5][6]
	øD	

Code	[5] : -F	[5] : -N	[6] : -C
Specifications	Seal rubber FKM	Seal rubber NBR	Clean-room package