

PP resin push-in fitting type needle valve for clean environment (SUS304 for metal part)

⚠ 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) Throttle (Needle) Valve PP

(2) Type

Code	C	MU
Type	Elbow	Small Union Straight

(3) Tube dia. (øD)

Code	mm size					inch size		
	4*1	6	8*1	10	12	1/4	3/8	1/2
Tube	mm ø4	ø6	ø8	ø10	ø12	ø6.35	ø9.53	ø12.7
O.D.	inch ø5/32	—	ø5/16	—	—	ø1/4	ø3/8	ø1/2

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

*2. Inch size is not selectable for elbow type.

(4) Thread size (R) (No code entry for Small Union Straight type)

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

(5) Seal rubber material (Optional)

Code	No code	-F	-HN
Material	EPDM	FKM	HNBR

(6) Sealing spec. (Optional) (Taper thread only) (No code entry for Small Union Straight type)

Code	No code	-S	-TP
Specifications	Without sealock or seal tape	Sealock coating	Seal tape applied (Applying seal tape on the thread)

(7) Packaging option (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.

All parts are oil-free specification, which responds to a wide variety of request in various industries.

Metal parts are made of SUS304 and EPDM is used for seal material.

Food Sanitation Act. compliant

*Refer to page 6 for details.

Visible fluid by Clear (semitransparent) body color.

Easy to check the sanitary condition.

Special specification of seal rubber material is available.

Sealing rubber material can be changed from standard EPDM to FKM or HNBR depending on applications.

Seal tape or Sealock coating can be selectable as optional.

● 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.

Specification

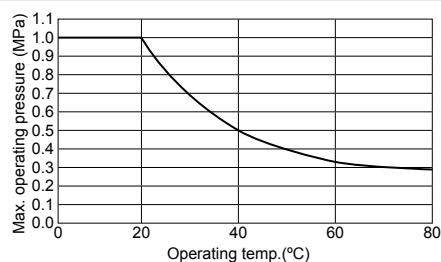
Fluid medium	Air, Water, Other chemicals (Conditional*1)
Max. operating pressure	1.0 MPa (at 0 to 20°C) *2
Max. vacuum	-100 kPa
Operating temp. range	0 to 80°C (No freezing)

△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 (WR) 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".

Relation of Operating Temp. & Max. Operating Pressure



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

Type	Model code PJNCøD-R[5][6][7]	Type	Model code PJNMUøD[5][7]
Elbow PJNC 	PJNC4-M5[5][7]	Small Union Straight PJNMU 	PJNMU4[5][7]
	PJNC4-01[5][6][7]		PJNMU6[5][7]
	PJNC6-M5[5][7]		PJNMU8[5][7]
	PJNC6-01[5][6][7]		PJNMU10[5][7]
	PJNC6-02[5][6][7]		PJNMU12[5][7]
	PJNC6-03[5][6][7]		PJNMU1/4[5][7]
	PJNC8-01[5][6][7]		PJNMU3/8[5][7]
	PJNC8-02[5][6][7]		PJNMU1/2[5][7]
	PJNC8-03[5][6][7]		
	PJNC8-04[5][6][7]		
	PJNC10-02[5][6][7]		
	PJNC10-03[5][6][7]		
	PJNC10-04[5][6][7]		
	PJNC12-03[5][6][7]		
	PJNC12-04[5][6][7]		



Notes

*Apply øD code "4" for 5/32in., and "8" for 5/16in.



CAD data is available
at PISCO website.



Packaging specifications
1 pc. /bag

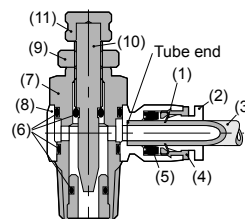


Options

Code	[5] : -F	[5] : -HN	[6] : -S	[6] : -TP	[7] : -C
Specifications	Seal rubber FKM	Seal rubber HNBR	Sealock coating	Sealing tape applied	Clean-room package

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

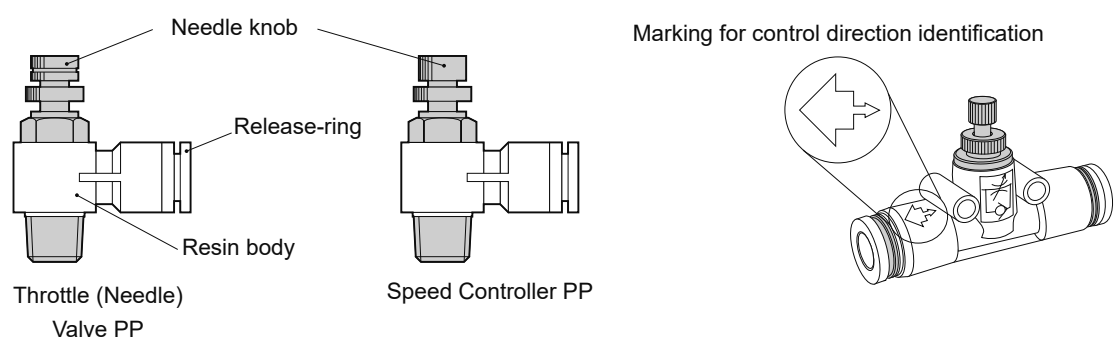
Sectional drawing



No.	Parts	Material
(1)	Lock claws	Stainless steel
(2)	Release-ring	PP
(3)	Tube	Clean-room packaging spec, etc.
(4)	Guide ring	SUS304
(5)	Elastic sleeve	EPDM
(6)	O-ring	EPDM
(7)	Metallic body	SUS304
(8)	Resin body	PP
(9)	Lock nut	SUS304
(10)	Needle	SUS304
(11)	Knob	SUS304

*The gasket material of M5 thread is SUS316 + FKM.

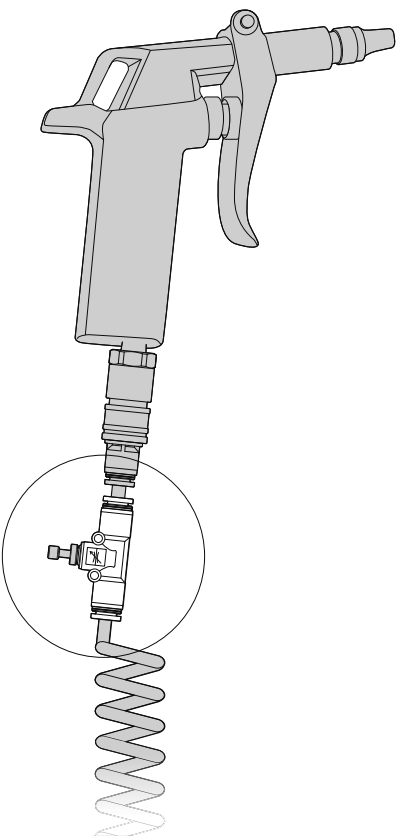
How to identify similar products



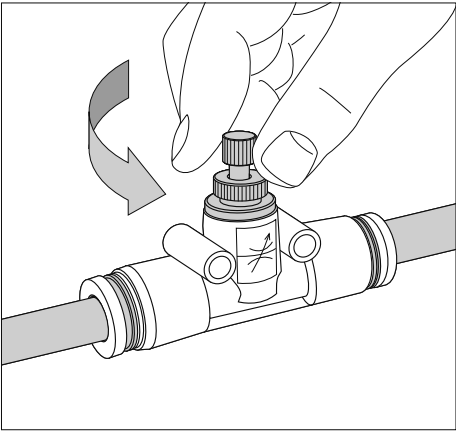
Type	Release-ring	Resin body	Needle knob	Marking for control direction identification
Throttle (Needle) Valve PP	Semitransparent	Semitransparent	With flat groove (*)	Without marking
Throttle (Needle) Valve PP Clean-room pkg.				
Speed Controller PP	Semitransparent	Semitransparent	Without flat groove	With marking

*Small Union Straight type does not have a flat groove.

How to adjust flow rate



(1) Increasing flow rate
When the needle knob of Throttle (Needle) Valve is turned counterclockwise from the fully closed position, the fluid flow rate will increase. Make sure to tighten the lock nut at the desired flow rate so that the flow rate setting cannot be changed.



(2) Reducing flow rate
If the needle knob of Throttle (Needle) Valve is turned too far (if the flow rate is too large), turn it clockwise to reduce the fluid flow rate. Make sure to tighten the lock nut at the desired flow rate so that the flow rate setting cannot be changed.

