

Speed Controller PP

Polypropylene push-in fitting type flow control valve for clean environment

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)

PJS	C	6	-	01	A				
(1)	(2)	(3)		(4)	(5)	(6)	(7)	(8)	(9)

(1) Speed Controller 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	ø4	ø6	ø8	ø10	ø12	ø6.35	ø9.53	ø12.7
O.D.	inch	—	—	—	—	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 thread			
	M3	M5	01	02	03	04
Thread size	M3×0.5	M5×0.8	R1/8	R1/4	R3/8	R1/2

(5) Control direction (No code entry for Small Union Straight type)

Code	A	B
	Meter-out control	Meter-in control
Control direction	Air from thread side is controlled. Air from tube side is not controlled and flows out from thread side.	Air from tube side is controlled. Air from thread side is not controlled and flows out from tube side.
Color of lock nut	Silver	Silver
Identification	Marking on needle : A (Low opening pressure type : AK)	Marking on needle : B (Low opening pressure type : BK)

(6) Low cracking pressure type

Code	No code	K
Specifications	Standard specification	Low cracking pressure type (Check valve opening pressure: 0.02MPa, Operating pressure range: 0.05 to 0.5MPa)

*1. K is not selectable for rubber seal of FKM and HNBR.

*2. Standard Small Union Straight tpe works with low cracking pressure.

(7) Seal rubber material (Optional)

Code	No code	-F	-HN
Material	EPDM	FKM	HNBR

*Check valve packings of Small Union Straight type are all made of FKM.

(8) 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 thread)

(9) Packaging option

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

Characteristics

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

Visible fluid by Clear (semitransparent) body color.

It is compatible with special specifications of sealing rubber material.

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.

*Available only for Elbow type.

Food Sanitation Act. compliant (Not compatible with Sealock specifications)

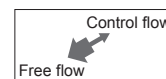
*Refer to page 6 for details.

● Small Union straight

The check valve operates at a low pressure of 0.005MPa.

Easier to identify the control direction.

A marking on the top of resin body (needle side) indicates the control direction.



● 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.

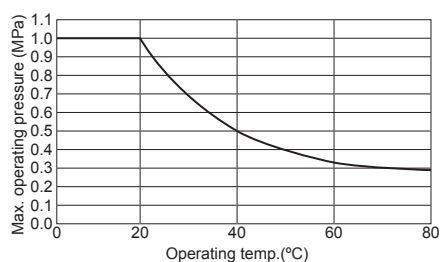
Specifications

Type	Elbow	Small Union Straight
Fluid medium	Air, other *1	
Operating pressure range	0.1 to 1.0 MPa (at 0 to 20°C)*2 (Low cracking press. type: 0.05 to 0.5 MPa)	0.05 to 1.0 MPa (at 0 to 20°C)*2
Check valve opening pressure	0.05 MPa (Low cracking press. type: 0.02 MPa)	0.005 MPa
Operating temp. range	0 to 80°C (No freezing)	

△Warning *1. The specification above may not be applied, depending on the kind of mixed gasses and others used as fluid medium. Contact us and 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 PJSCøD-R[5][7][8][9]	Applicable cylinder tube I.D. (mm)	Type	Model code PJSMUøD[7][9]	Applicable cylinder tube I.D. (mm)
Elbow PJSC 	PJSC4-M3[5][7][9]	ø16	Small Union Straight PJSMU 	PJSMU4[7][9]	ø20
	PJSC4-M3[5]K[7][9]			PJSMU6[7][9]	ø32
	PJSC4-M5[5][7][9]	ø20		PJSMU8[7][9]	ø50
	PJSC4-M5[5]K[7][9]			PJSMU10[7][9]	ø63
	PJSC4-01[5][7][8][9]	ø32		PJSMU12[7][9]	ø80
	PJSC4-01[5]K[7][8][9]			PJSMU1/4[7][9]	ø32
	PJSC6-M5[5][7][9]	ø20		PJSMU3/8[7][9]	ø63
	PJSC6-M5[5]K[7][8]			PJSMU1/2[7][9]	ø80
	PJSC6-01[5][7][8][9]	ø32			
	PJSC6-01[5]K[7][8][9]				
	PJSC6-02[5][7][8][9]	ø40			
	PJSC6-02[5]K[7][8][9]				
	PJSC6-03[5][7][8][9]	ø63			
	PJSC8-01[5][7][8][9]	ø32			
	PJSC8-01[5]K[7][8][9]				
	PJSC8-02[5][7][8][9]	ø40			
	PJSC8-02[5]K[7][8][9]				
	PJSC8-03[5][7][8][9]	ø63			
	PJSC8-04[5][7][8][9]	ø100			
	PJSC10-02[5][7][8][9]	ø40			
	PJSC10-02[5]K[7][8][9]				
	PJSC10-03[5][7][8][9]	ø63			
	PJSC10-04[5][7][8][9]	ø100			
	PJSC12-03[5][7][8][9]	ø63			
	PJSC12-04[5][7][8][9]	ø100			



Notes

*1. For [5] in model code, please select a control direction code, "A" for Meter-out and "B" for Meter-in control.

*2. Low cracking pressure type is not selectable for rubber seal of HNBR and FKM.

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

*4. Applicable cylinder tube I.D. is based on the supply air pressure at 0.5MPa and cylinder speed at 500mm/sec.



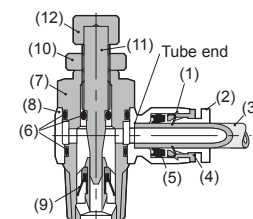
Options

Code	[7] : -F	[7] : -HN	[8] : -S	[8] : -TP	[9] : -C
Specifications	Seal rubber FKM	Seal rubber HNBR	Sealock (*)	Seal tape (*)	Clean-room package

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

Sectional drawing

Elbow type: PJSC



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)	Diaphragm	EPDM
(10)	Lock nut	SUS304
(11)	Needle	SUS304
(12)	Knob	SUS304

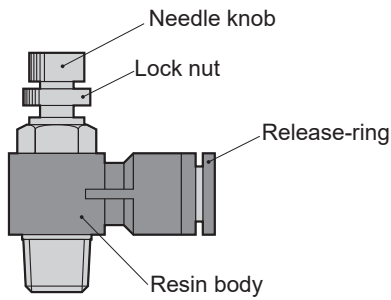
*The gasket material of M3 or M5 thread is SUS316 + FKM. Refer to following for gasket materials.

Seal rubber material EPDM (standard specification): SUS316 + FKM

Seal rubber material FKM: SUS316 + FKM

Seal rubber material HNBR: SUS304 + HNBR

■ How to identify similar products (Speed Controller)



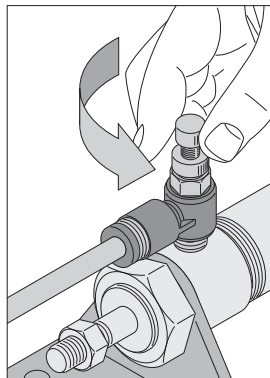
Type	Release-ring	Resin body	Lock nut		Marking on needle knob	
			Meter-out	Meter-in	Meter-out	Meter-in
Standard	Black	Black	Silver	Black	A (AK)	B (BK)
Clean-room pkg.	Light blue	Light gray				
Large-flow	Black	Black	Blue	-	AG	-
Low-flow	Black	Black	Silver	Black	AT	BT
SUS303 Equivalent Corrosivity	Dark blue	Black	Silver	Black	A	B
PP	Semitransparent	Semitransparent	Silver	Silver	A (AK)	B (BK)

* () is for low cracking pressure type.

■ How to adjust speed

(1) Increasing speed

When the needle knob of Speed Controller is turned counterclockwise from the fully closed position, the actuator speed will increase. Make sure to tighten the lock nut at the desired speed so that the speed setting cannot be changed.



(2) Reducing speed

If the needle knob of Speed Controller is turned too far (if the speed is too fast), turn it clockwise to reduce the actuator speed. Make sure to tighten the lock nut at the desired speed so that the speed setting cannot be changed.

