

Push-In Fitting Type Pressure Control Valve

⚠ 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) Pressure Controller

(2) Type

Code	C	S
Type	Elbow	Straight

(3) Tube dia. (øD)

Code	mm size (mm)					inch size (inch)				
	4	6	8	10	12	5/32	1/4	5/16	3/8	1/2
Tube O.D.	ø4	ø6	ø8	ø10	ø12	ø5/32	ø1/4	ø5/16	ø3/8	ø1/2

(4) Thread size (R)

	Metric thread	Taper pipe thread				Unified fine thread	National pipe thread tapered			
Code	M5	01	02	03	04	U10	N1	N2	N3	N4
Thread size	M5×0.8	R1/8	R1/4	R3/8	R1/2	10-32UNF	NPT1/8	NPT1/4	NPT3/8	NPT1/2

(5) Wrench size specification

Code	No code	U
Wrench size spec.	mm spec.	inch spec.

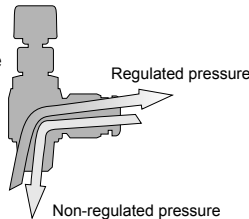
Characteristics

Pressure control valve saves compressed air consumption.

In driving an actuator under high pressure, compressed air can be saved by use of the pressure controller to reduce the pressure only during home return.

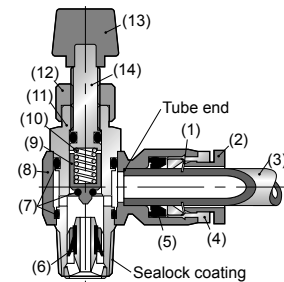
Controls the pressure for advance and return of an actuator.

When a primary pressure is supplied from the thread side, a reduced pressure will come out from the fitting side. When the primary pressure is supplied from the fitting side, the same pressure will come out from the thread side because of the operation of the check valve.



Sectional drawing

Elbow: JPC



No.	Parts	Material
(1)	Lock claws	Stainless steel
(2)	Release-ring	POM
(3)	Tube	Polyurethane, Nylon, etc.
(4)	Guide ring	Nickel-plated brass
(5)	Elastic sleeve	NBR
(6)	Diaphragm	HNBR
(7)	O-ring	NBR
(8)	Resin body	PBT
(9)	Poppet	Nickel-plated brass
(10)	Pressure adjusting spring	Stainless steel
(11)	Metallic body	Nickel-plated brass
(12)	Lock nut	Aluminum
(13)	Cap	PBT
(14)	Needle	Nickel-plated brass

* The gasket material of M5 or UNF thread is SPCC + NBR.

Specifications

Fluid medium	Air
Operating pressure range	0 to 0.9 MPa
Pressure setting range	0.2 to 0.6 MPa
Operating temp. range	0 to 60°C (No freezing)

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

Type	Model code JPCøD-R	Model code JPCøD-RU	Type	Model code JPSøD-R	Model code JPSøD-RU
Elbow JPC 	JPC4-M5	JPC ^{5/32} -U10U	Straight JPS 	JPS4-M5	JPS ^{5/32} -U10U
	JPC4-01	JPC ^{5/32} -N1U		JPS4-01	JPS ^{5/32} -N1U
	JPC6-M5	JPC ^{1/4} -N1U		JPS6-M5	JPS ^{1/4} -N1U
	JPC6-01	JPC ^{1/4} -N2U		JPS6-01	JPS ^{1/4} -N2U
	JPC6-02	JPC ^{5/16} -N1U		JPS6-02	JPS ^{5/16} -N1U
	JPC8-01	JPC ^{5/16} -N2U		JPS8-01	JPS ^{5/16} -N2U
	JPC8-02	JPC ^{5/16} -N3U		JPS8-02	JPS ^{5/16} -N3U
	JPC8-03	JPC ^{3/8} -N2U		JPS8-03	JPS ^{3/8} -N2U
	JPC10-02	JPC ^{3/8} -N3U		JPS10-02	JPS ^{3/8} -N3U
	JPC10-03	JPC ^{1/2} -N3U		JPS10-03	JPS ^{1/2} -N3U
	JPC12-03	JPC ^{1/2} -N4U		JPS12-03	JPS ^{1/2} -N4U
	JPC12-04			JPS12-04	

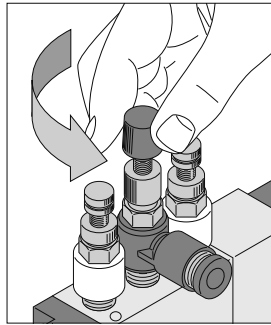
CAD data is available at PISCO website.

Packaging specifications
1 pc. /bag

■ How to adjust pressure

(1) Increasing pressure

When the pressure adjusting screw of Pressure Controller is turned counterclockwise from the fully closed position, the pressure will increase. Make sure to tighten the lock nut at the desired pressure so that the pressure setting cannot be changed.



(2) Reducing pressure

If the pressure adjusting screw of Pressure Controller is turned too far (if the pressure is too high), exhaust the secondary pressure and turn it clockwise to the fully closed position. Then, make the same adjustment as in (1), and make sure to tighten the lock nut at the desired pressure so that the pressure setting cannot be changed.

