

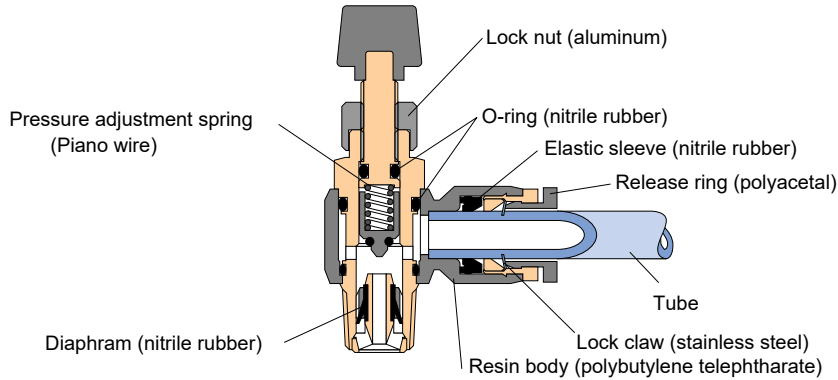
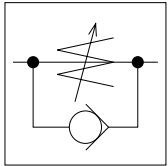
Pressure Controller

Characteristics

- Pressure Controller reduces the pressure of downstream while keeping the free flow in the other way.
(Note, however, that change in the primary pressure can change the secondary pressure accordingly.)

Construction

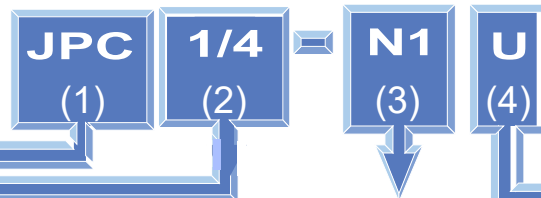
Graphical representation



Specification

Fluid admitted	Air	
Service pressure range	0~130psi	0 ~ 0.9MPa
Setting pressure range	29~87psi	0.2 ~ 0.6MPa
Service temperature range	32~140°F	0 ~ 60°C

Model Designation (Example)



(1) Type
JPC: Elbow
JPS: Straight

(2) Tube dia

Tube dia	mm Size				
Code	4	6	8	10	12
Size (mm)	φ4	φ6	φ8	φ10	φ12

Tube dia	in. Size				
Code	5/32	1/4	5/16	3/8	1/2
Size (in.)	φ5/32	φ1/4	φ5/16	φ3/8	φ1/2

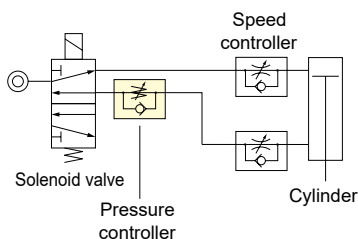
(3) Thread size

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

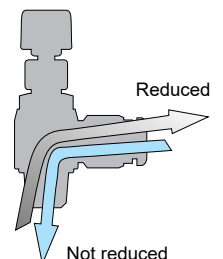
Thread size	Unified fine thread	American standard taper pipe thread			
		Code	Size	Code	Size
	U10	N1	N2	N3	N4
	10~32UNF	NTP1/8	NTP1/4	NTP3/8	NTP1/2

(4) Hexagon flat-to-flat specification U:
Hexagon flat-to-flat inch spec. (NPT) No code:
Hexagon flat-to-flat mm spec.

Application example



- It can be installed in line between solenoid valves and cylinders, which enables reducing unnecessary air pressure on return strokes while a high pressure is needed for working strokes.



⚠ Detailed safety Instruction

Before using the PISCO device, be sure to read the "Safety Instructions", "Common Safety Instructions for Products Listed in This Manual" and "Common Safety Instructions for Controllers"

⚠ Warning

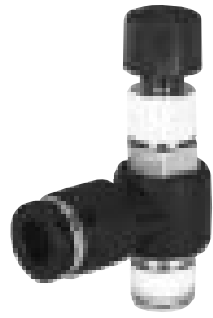
1. Do not subject the product with a rotatable resin body to forcible swinging or rotation. Otherwise the body may suffer damage or develop leakage.
2. Do not use the Pressure Controller as a safety valve that requires accuracy. Pressure Controller is not designed for use as a safety valve.

⚠ Caution

1. Set the pressure by turning counterclockwise from the fully closed position of the needle. Without a relief mechanism, it is not possible to set it from the fully open position. To set the pressure again, release the pressure, from the secondary side beforehand.
2. Variation of primary pressure can affect secondary pressure, so take great care when the pressure variation in the primary side is large.

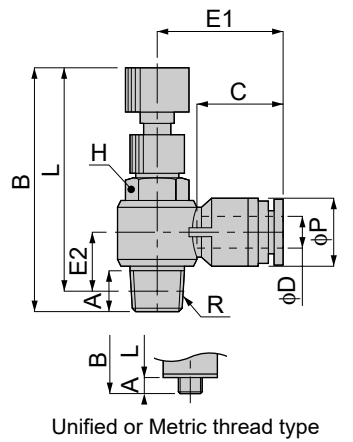
JPC

Elbow



unit:mm

Model	Tube dia. ϕ D	R	A	B		L		ϕ P	C	E1	E2	H	Mass (g)
				max	min	max	min						
JPC 4-M5	4	M5x0.8	3.5	39	35.5	36	32.5	10	15	20	6.5	8	9
JPC 4-01		R1/8	8	48.5	44.5	44.5	40.5			21.5	9.5	10	19
JPC 6-M5	6	M5x0.8	3.5	39	35.5	36	32.5	12.5	17	24	7.5	8	10
JPC 6-01		R1/8	8	48.5	44.5	44.5	40.5			23.5	10.5	10	20
JPC 6-02		R1/4	11	52	48.5	46	42.5			25.5	12	14	36.5
JPC 8-01	8	R1/8	8	48.5	44.5	44.5	40.5	14.5	18	27	11.5	10	21.5
JPC 8-02		R1/4	11	52	48.5	46	42.5			28.5	13	14	37.5
JPC 8-03		R3/8	12	59	56	52.5	49.5			29	15	19	66.5
JPC 10-02	10	R1/4	11	52	48.5	46	42.5	17.5	20	31	15	14	41.5
JPC 10-03		R3/8	12	59	56	52.5	49.5					16.5	19
JPC 12-03	12	R3/8	12	59	56	52.5	49.5	21	23.5	37	18		73
JPC 12-04		R1/2	15	64.5	62	56.5	54					36.5	19.5



unit: inch

Model	Tube dia. ϕ D inch(mm)	R	A	B		L		ϕ P	C	E1	E2	H	Weight (oz)
				MAX	MIN	MAX	MIN						
JPC 5/32-U10U	5/32(3.97)	10-32UNF	0.14	1.52	1.40	1.40	1.26	0.39	0.59	0.79	0.26	5/16	0.31
JPC 5/32-N1U	5/32(3.97)	NPT 1/8	0.31	1.91	1.75	1.75	1.59	0.39	0.59	0.85	0.41	7/16	0.70
JPC 1/4-N1U	1/4(6.35)	NPT 1/8	0.31	1.91	1.75	1.75	1.59	0.49	0.67	0.93	0.41	7/16	0.73
JPC 1/4-N2U	1/4(6.35)	NPT 1/4	0.43	2.05	1.91	1.89	1.67	0.49	0.67	1.00	0.47	9/16	1.27
JPC 5/16-N1U	5/16(7.94)	NPT 1/8	0.31	1.91	1.75	1.75	1.59	0.57	0.71	1.06	0.45	7/16	0.78
JPC 5/16-N2U	5/16(7.94)	NPT 1/4	0.43	2.05	1.91	1.89	1.67	0.57	0.71	1.12	0.51	9/16	1.31
JPC 5/16-N3U	5/16(7.94)	NPT 3/8	0.47	2.32	2.20	2.07	1.95	0.57	0.71	1.14	0.59	3/4	2.38
JPC 3/8-N2U	3/8(9.53)	NPT 1/4	0.43	2.05	1.91	1.89	1.67	0.69	0.79	1.22	0.57	9/16	1.44
JPC 3/8-N3U	3/8(9.53)	NPT 3/8	0.47	2.32	2.20	2.07	1.95	0.69	0.79	1.22	0.65	3/4	2.49
JPC 1/2-N3U	1/2(12.7)	NPT 3/8	0.47	2.32	2.20	2.07	1.95	0.83	0.93	1.46	0.71	3/4	2.60
JPC 1/2-N4U	1/2(12.7)	NPT 1/2	0.59	2.54	2.44	2.22	2.13	0.83	0.93	1.44	0.77	1	3.74

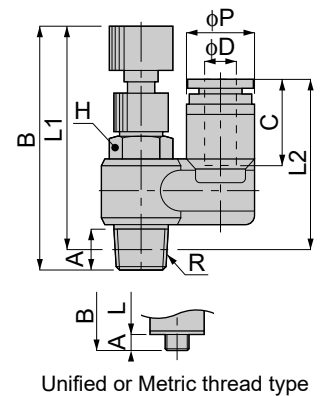
JPS

Straight



unit:mm

Model	Tube dia. ϕ D	R	A	B		L1		L2	ϕ P	C	E1	E2	H	Mass (g)
				max	min	max	min							
JPS 4-M5	4	M5x0.8	3	39	35.5	36	32.5	23.5	10	15	10.5	6	8	9.5
JPS 4-01		R1/8	8	48.5	44.5	44.5	40.5	28.5			13	10.5	10	20
JPS 6-M5	6	M5x0.8	3	39	35.5	36	32.5	26	12.5	17	12	6	8	10.5
JPS 6-01		R1/8	8	48.5	44.5	44.5	40.5	31			14	10.5	10	21.5
JPS 6-02		R1/4	11	52	48.5	46	42.5	32			17	12	14	37.5
JPS 8-01	8	R1/8	8	48.5	44.5	44.5	40.5	32	14.5	18	15	10.5	10	22.5
JPS 8-02		R1/4	11	52	48.5	46	42.5	33.5			18	12	14	39
JPS 8-03		R3/8	12	59	56	52.5	49.5	37.5			19	15	19	68.5
JPS 10-02	10	R1/4	11	52	48.5	46	42.5	36	18	20	20	12	14	42.5
JPS 10-03		R3/8	12	59	56	52.5	49.5	39.5			21	15	19	72
JPS 12-03	12	R3/8	12	59	56	52.5	49.5	42.5	21	23.5	22.5	15		76
JPS 12-04		R1/2	15	64.5	62	56.5	54	47					25.5	18



unit: inch

Model	Tube dia. ϕ D inch(mm)	R	A	B		L1		L2	ϕ P	C	E1	E2	H	Weight (oz)
				MAX	MIN	MAX	MIN							
JPS 5/32-U10U	5/32(3.97)	10-32UNF	0.14	1.52	1.40	1.40	1.26	0.93	0.39	0.59	0.41	0.26	5/16	0.33
JPS 5/32-N1U	5/32(3.97)	NPT 1/8	0.31	1.91	1.75	1.75	1.59	1.14	0.39	0.59	0.51	0.41	7/16	0.74
JPS 1/4-N1U	1/4(6.35)	NPT 1/8	0.31	1.91	1.75	1.75	1.59	1.22	0.49	0.67	0.55	0.41	7/16	0.77
JPS 1/4-N2U	1/4(6.35)	NPT 1/4	0.43	2.05	1.91	1.89	1.67	1.26	0.49	0.67	0.67	0.47	9/16	1.32
JPS 5/16-N1U	5/16(7.94)	NPT 1/8	0.31	1.91	1.75	1.75	1.59	1.28	0.57	0.71	0.59	0.45	7/16	0.83
JPS 5/16-N2U	5/16(7.94)	NPT 1/4	0.43	2.05	1.91	1.89	1.67	1.32	0.57	0.71	0.71	0.51	9/16	1.37
JPS 5/16-N3U	5/16(7.94)	NPT 3/8	0.47	2.32	2.20	2.07	1.95	1.48	0.57	0.71	0.75	0.59	3/4	2.45
JPS 3/8-N2U	3/8(9.53)	NPT 1/4	0.43	2.05	1.91	1.89	1.67	1.42	0.69	0.79	0.79	0.57	9/16	1.49
JPS 3/8-N3U	3/8(9.53)	NPT 3/8	0.47	2.32	2.20	2.07	1.95	1.57	0.69	0.79	0.83	0.65	3/4	2.58
JPS 1/2-N3U	1/2(12.7)	NPT 3/8	0.47	2.32	2.20	2.07	1.95	1.67	0.83	0.93	0.89	0.71	3/4	2.71
JPS 1/2-N4U	1/2(12.7)	NPT 1/2	0.59	2.54	2.44	2.22	2.13	1.85	0.83	0.93	1.00	0.77	1	3.93

Flow characteristic

Elbow / Straight

