

Quick Fitting Type Check Valve

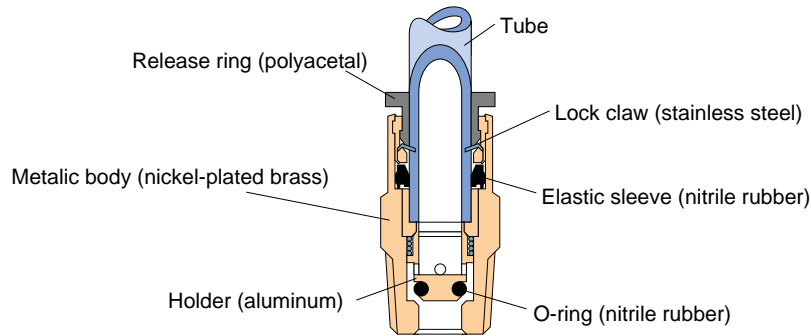
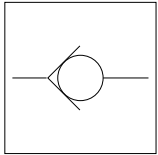
Check Valve

Features

- The Check Valve permits the air flow in one direction but checks the flow in the opposite direction, thus keeping the output pressure at a constant level.
- The Check Valve can keep the service pressure at -750mmHg (vacuum) and permits piping under low pressure.

Construction

Graphical representation



Specification

Fluid admitted	Air	
Service pressure range	0~150psi	0~0.9MPa
Operating pressure	1.45psi	0.01MPa
Working vacuum	-2.95 in. Hg	-100KPa
Service temperature range	32~140°F	0~60°C

Model Designation(Example)

CVC 6 - 01 A

(1) Type
(2) Tube dia.

mm size					
Code	4	6	8	10	12
Size	φ4	φ6	φ8	φ10	φ12

inch size					
Code	5/32	1/4	5/16	3/8	1/2
Size	φ5/32	φ1/4	φ5/16	φ3/8	φ1/2

(3) Thread size

	Metric thread(mm)		Taper pipe thread			
Code	M5	M6	01	02	03	04
Size	M5×0.8	M6×1	R1/8	R1/4	R3/8	R1/2

	Unified fine thread	Taper pipe thread			
Code	U10	01	02	03	04
Size	10~32UNF	R1/8	R1/4	R3/8	R1/2

(4) Control direction
A: Input on male thread side
B: Output on male thread side

A: Input on male thread size
Free flow

B: Output on male thread size
Free flow

*Do not make this entry for CVU.
*Indication of control direction is marked on Metallic body.

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

⚠ Detailed Safety Instruction

Before using the PISCO device, be sure to read the "Safety Instructions", "Common Safety Instructions for Products Listed in This Manual" on pages 23~24 and "Common Safety Instructions for Controllers" on pages 167~168.

⚠ Warning

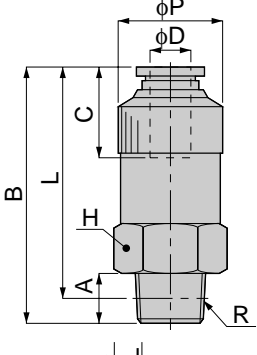
1. Frequent switching may raise the temperature of the body, thus raising the possibility of fire. Consult PISCO about such frequent switching applications.

⚠ Caution

1. When tightening the screw, observe the relevant requirements in the Common Safety Instructions for Controllers. Excessive tightening may cause faulty valve operation.

CVC

Straight



Metric thread type

unit:mm

Model	Tube dia. φD	R	A	B	L	φP	C	H	Mass (g)	Eff. a. (mm ²)
CVC 4-M5	4	M5×0.8	3	28	25	8	11	8	6.5	2.5
CVC 4-M6		M6×1	4	29						2.7
CVC 4-01		R1/8	8	24	20	9	10	9.5	2.7	
CVC 6-01	6	R1/8	8	29	25	10	12	10	9.5	6.8
CVC 6-02		R1/4	11		23			12		
CVC 8-01	8	R1/8	8	35.5	31.5	13.5	18.5	14	20	6.8
CVC 8-02		R1/4	11	39.5	33.5				22	
CVC 10-03	10	R3/8	12	62	55.5	25	21	24	46	35
CVC 10-04		R1/2	15	68.5	60.5	28		27		
CVC 12-03	12	R3/8	12	64.5	58	25	23.5	24	49	50
CVC 12-04		R1/2	15	71	63	28		27		

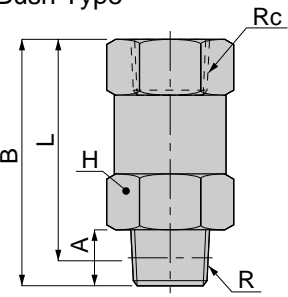


unit:inch

Model	Tube dia. φD inch(mm)	NPT	A	B	L	φP	C	H	Eff. A. mm ²	Cv	Weight (oz)
CVC 5/32-U10	5/32(3.97)	10-32UNF	0.14	1.10	0.96	0.31	0.43	5/16	2.5	0.14	0.25
CVC 5/32-N1	5/32(3.97)	NPT 1/8	0.31	0.94	0.79	0.35	0.43	7/16	2.7	0.15	0.39
CVC 1/4-N1	1/4(6.35)	NPT 1/8	0.31	1.14	0.98	0.39	0.47	9/16	6.8	0.37	0.71
CVC 1/4-N2	1/4(6.35)	NPT 1/4	0.43	1.14	0.91	0.47	0.47	9/16	6.8	0.37	0.93
CVC 5/16-N1	5/16(7.94)	NPT 1/8	0.31	1.40	1.24	0.53	0.73	9/16	6.8	0.37	0.78
CVC 5/16-N2	5/16(7.94)	NPT 1/4	0.43	1.56	1.32	0.53	0.73	9/16	15.5	0.84	0.83
CVC 3/8-N3	3/8(9.53)	NPT 3/8	0.47	2.44	2.19	0.98	0.83	1	35	1.89	1.67
CVC 3/8-N4	3/8(9.53)	NPT 1/2	0.59	2.74	2.38	1.10	0.83	1 1/8	39	2.11	2.33

CVF

Bush Type



unit:mm

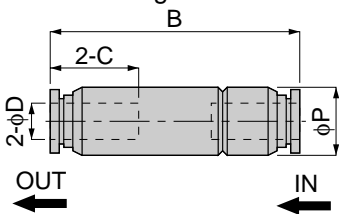
Model	R	Rc	A	B	L	H	Mass (g)	Eff. a. (mm ²)
CVF 01-01	R1/8	Rc1/8	8	26.5	22.5	14	21	6.8
CVF 02-02	R1/4	Rc1/4	11	33	27	17	34	15.5
CVF 03-03	R3/8	Rc3/8	12	52	45.5	24	37	52
CVF 04-04	R1/2	Rc1/2	15	62	55.5	27	56	78

unit:inch

Model	NPT	Female	A	B	L	H	Eff. A. mm ²	Cv	Weight (oz)
CVF N1-N1	NPT 1/8	NPT 1/8	0.31	1.04	0.89	9/16	6.8	0.37	0.77
CVF N2-N2	NPT 1/4	NPT 1/4	0.43	1.30	1.06	11/16	15.5	0.84	1.35
CVF N3-N3	NPT 3/8	NPT 3/8	0.47	2.05	1.79	1	52	2.81	1.41
CVF N4-N4	NPT 1/2	NPT 1/2	0.59	2.44	2.19	1 1/8	78	4.22	2.12

CVU

Union Straight

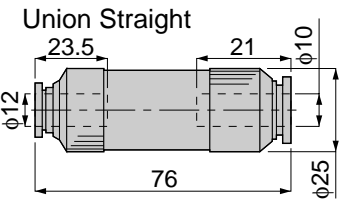


unit:mm

Model	Tube dia. φD	B	φP	C	Mass (g)	Eff. a. (mm ²)
CVU 4-4	4	34	9	11	5	2.7
CVU 6-6	6	38.5	12	12	9.5	6.8
CVU 8-8	8	55.5	15	18.5	20	15.5
CVU 10-10	10	82.5	25	21	61.5	32
CVU 12-12	12	87.5	25	23.5	68	46

CVG

Different Diam. Union Straight



unit:mm

Model	Mass (g)	Eff. a. (mm ²)
CVG 12-10	65	36

※Direction of air flow CVG 12-10A : Tube dia. φ12 → φ10
CVG 12-10B : Tube dia. φ10 → φ12