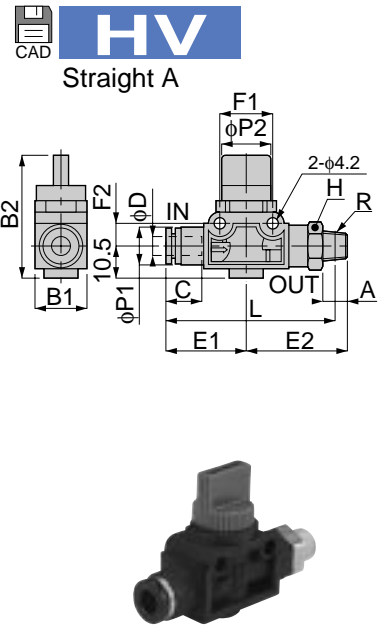


⚠ Detailed Safety Instructions

Before using the PISCO device, be sure to read the "Safety Instructions", "Common Safety Instructions for Products Listed in This Manual" on page 23-24 and "Common Safety Instructions for Change Series Valves" on page 279.

⚠ Caution

1. When operating the cap lever, turn it 90 degrees completely until it stops. Inadequate turning may result in poor conduction or low flow rate due to faulty switching.
2. Distinguish between the two-directional and the three-directional control valve by checking the marking ② or ③ on the top surface of the cap lever.
3. For use with negative pressures, provide a vacuum filter on the suction side. Otherwise dust sucked in may cause malfunction.



unit:mm

Model	Tube dia φD	R	A	B1	B2	L	φP1	φP2	C	E1	E2	H	F1	F2	Mass (g)	Orifice dia. (φmm)	Eff. Area (mm ²)
HV 6-01-□-□	6	R1/8	8		55.5						33.5	14	18	8	33	5	7.5
HV 6-02-□-□		R1/4	11	17	40.5	56.5	12.5	16.5	17	26	36.5				39.5	5	7.7
HV 6-03-□-□		R3/8	12			58						38.5	17		52		7.5
HV 8-01-□-□	8	R1/8	8		57.5						33.5	14	18	8	34.5	5	8.7
HV 8-02-□-□		R1/4	11	17	40.5	58.5	15	16.5	18	28	36.5				40.5	5	8.9
HV 8-03-□-□		R3/8	12			60						38.5	17		53.5		8.6
HV 10-02-□-□	10	R1/4	11		69						42.5	17	24	11	61.5	7	16.2
HV 10-03-□-□		R3/8	12	21	41	69.5	17.5	19.5	20	32.5	43.5				70	7	16
HV 10-04-□-□		R1/2	15			71						46.5	21		91.5		15.7
HV 12-02-□-□	12	R1/4	11		71.5						42.5	17	24	11	65	7	16.3
HV 12-03-□-□		R3/8	12	21	41	72	21	19.5	23.5	35	43.5				73	7	16.3
HV 12-04-□-□		R1/2	15			73.5						46.5	21		95		16.1
HV 1/4-01-□-□	1/4	R1/8	8		55.5						33.5	14	18	8	33	5	8.2
HV 1/4-02-□-□		R1/4	11	17	40.5	56.5	12.5	16.5	17	26	36.5				39.5	5	8
HV 1/4-03-□-□		R3/8	12			58						38.5	17		52		8.2
HV 5/16-01-□-□	5/16	R1/8	8		57.5						33.5	14	18	8	34.5	5	8.7
HV 5/16-02-□-□		R1/4	11	17	40.5	58.5	15	16.5	18	28	36.5				40.5	5	8.9
HV 5/16-03-□-□		R3/8	12			60						38.5	17		53.5		8.6
HV 3/8-02-□-□	3/8	R1/8	11		69						42.5	17	24	11	61.5	7	15.4
HV 3/8-03-□-□		R3/8	12	21	41	69.5	17.5	19.5	20	32.5	43.5				70	7	15.7
HV 3/8-04-□-□		R1/2	15			71						46.5	21		91.5		15.4

unit:inch

MODEL	Tube dia. φ	NPT	A	B	C	E1	E2	F1	F2	W	H	Weight (g)	Orifice φmm	Eff. A. mm ²	Cv
HV3/16-N1U	3/16	1/8	0.31	1.59	0.67	1.02	1.16	0.71	0.31	0.67	9/16	33.7	4.0	5.1	0.27
HV3/16-N2U	3/16	1/4	0.43	1.59	0.67	1.02	1.20	0.71	0.31	0.67	9/16	39.6	4.0	5.1	0.27
HV3/16-N3U	3/16	3/8	0.47	1.59	0.67	1.02	1.26	0.71	0.31	0.67	11/16	53.3	4.0	5.2	0.28
HV1/4-N1U	1/4	1/8	0.31	1.59	0.67	1.02	1.16	0.71	0.31	0.67	9/16	33.8	5.0	7.5	0.40
HV1/4-N2U	1/4	1/4	0.43	1.59	0.67	1.02	1.20	0.71	0.31	0.67	9/16	39.8	5.0	7.7	0.41
HV1/4-N3U	1/4	3/8	0.47	1.59	0.67	1.02	1.26	0.71	0.31	0.67	11/16	53.3	5.0	7.5	0.40
HV5/16-N1U	5/16	1/8	0.31	1.59	0.71	1.10	1.16	0.71	0.31	0.83	9/16	34.8	5.0	8.7	0.47
HV5/16-N2U	5/16	1/4	0.43	1.59	0.71	1.10	1.20	0.71	0.31	0.83	9/16	40.7	5.0	8.9	0.48
HV5/16-N3U	5/16	3/8	0.47	1.59	0.71	1.10	1.26	0.71	0.31	0.83	11/16	54.4	5.0	8.6	0.46
HV3/8-N2U	3/8	1/4	0.43	1.61	0.79	1.28	1.44	0.94	0.43	0.83	11/16	63.0	5.0	16.2	0.87
HV3/8-N3U	3/8	3/8	0.47	1.61	0.79	1.28	1.46	0.94	0.43	0.83	11/16	71.3	7.0	16.0	0.86
HV3/8-N4U	3/8	1/2	0.59	1.61	0.79	1.28	1.48	0.94	0.43	0.83	7/8	94.3	7.0	15.7	0.85
HV1/2-N2U	1/2	1/4	0.43	1.61	0.93	1.38	1.44	0.94	0.43	0.83	11/16	65.5	7.0	16.3	0.88
HV1/2-N3U	1/2	3/8	0.47	1.61	0.93	1.38	1.46	0.94	0.43	0.83	11/16	73.9	7.0	16.3	0.88
HV1/2-N4U	1/2	1/2	0.59	1.61	0.93	1.38	1.52	0.94	0.43	0.83	7/8	96.8	7.0	16.1	0.87