

Hand Valve

Push-In Fitting Type Handle type shutoff valve (3-way valve for exhausting residual pressure and 2-way 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) Hand Valve

(2) Inlet type / size (IN)

■ Tube dia.

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

■ Thread size

Code	Taper pipe thread				National pipe thread tapered			
	01	02	03	04	N1	N2	N3	N4
Thread size	R1/8	R1/4	R3/8	R1/2	NPT1/8	NPT1/4	NPT3/8	NPT1/2

(3) Outlet port / size (OUT)

■ See (2) for the size list of tube dia. and thread size.

(4) Number of valve port

Code	No code	-2
Specifications	Three-directional control valve (with residual pressure exhaust function)	Two-directional control valve

(5) Body color (Optional)

Code	No code	W
Specifications	Standard color	Light gray

(6) Wrench size specification

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

Model Designation of union straight type mounting bracket (Example)



(1) Hand Valve

(2) Union straight type mounting bracket

(3) Body size

Code	5		7	
	mm size	inch size	mm size	inch size
Used for	HV4-4	HV5/32-5/32	HV10-10	HV3/8-3/8
	HV6-4	HV3/16-3/16	HV12-10	HV1/2-3/8
	HV6-6	HV1/4-5/32	HV12-12	HV1/2-1/2
	HV8-6	HV1/4-3/16		
	HV8-8	HV1/4-1/4		
		HV5/16-1/4		
		HV5/16-5/16		

Characteristics

Release Residual Pressure by Three-Directional Control Valve and Two-Directional Control Valve without releasing pressure are available.

NEW Added size variations.

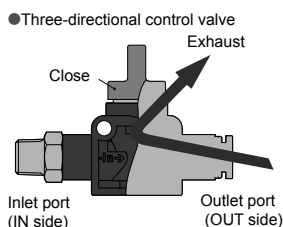
NEW Large engraving on the cap lever makes it easy to distinguish between two directional control valve and three-directional control valve.

NEW Up to 28% lighter than existing models.

NEW Improved operability by rounding the corners of the cap lever.

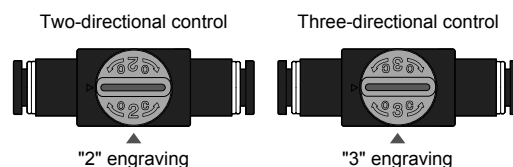
NEW A union straight type can be fixed by using a dedicated bracket.

Three-directional control valve and Two-directional control valve



Three-directional control valve has a function to release the residual pressure in outlet side when it is turned off. Adjustment or maintenance can be carried out safely. Two-directional control valve does not have a function to release the residual pressure in outlet side. This valve is suitable for applications such as tanks which are required to keep the residual pressure. Two-directional valve is also suitable for vacuum piping.

Two-directional control valve and three-directional control valve can be identified by the number engraved on the cap lever.



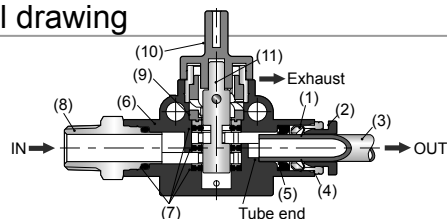
Hand Valve

Specifications

Fluid medium	Air
Max. operating pressure	1.0 MPa
Max. vacuum	-100 kPa
Operating temp. range	0 to 60°C (No freezing)

Sectional drawing

Straight B
(Cap lever : Closed)



No.	Parts	Material
(1)	Lock claws	Stainless steel
(2)	Release ring	POM
(3)	Tube	Polyurethane or nylon, etc.
(4)	Guide ring	Nickel-plated brass
(5)	Elastic sleeve	NBR
(6)	Resin body	PBT
(7)	O-ring	NBR
(8)	Metallic body	Nickel-plated brass
(9)	Spacer	PPS
(10)	Cap lever	POM
(11)	Spool	Nickel-plated brass

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

Type	Model code HV IN-OUT[4][5]	Model code HV IN-OUT[4][5]U	Type	Model code HV IN-OUT[4][5]	Model code HV IN-OUT[4][5]U	Type	Model code HV IN-OUT[4][5]
Straight A HV Add	HV4-01[4][5] HV6-01[4][5] HV6-02[4][5] HV6-03[4][5] HV8-01[4][5] HV8-02[4][5] HV8-03[4][5] HV10-02[4][5] HV10-03[4][5] HV10-04[4][5] HV12-02[4][5] HV12-03[4][5] HV12-04[4][5] HV ^{3/32} -01[4][5] HV ^{3/16} -01[4][5] HV ^{3/16} -02[4][5] HV ^{3/16} -03[4][5] HV ^{1/4} -01[4][5] HV ^{1/4} -02[4][5] HV ^{1/4} -03[4][5] HV ^{3/16} -01[4][5] HV ^{3/16} -02[4][5] HV ^{3/16} -03[4][5] HV ^{3/16} -04[4][5] HV ^{1/2} -02[4][5] HV ^{1/2} -03[4][5] HV ^{1/2} -04[4][5]	HV ^{3/16} -N1[4][5]U HV ^{3/16} -N2[4][5]U HV ^{3/16} -N3[4][5]U HV ^{1/4} -N1[4][5]U HV ^{1/4} -N2[4][5]U HV ^{1/4} -N3[4][5]U HV ^{3/16} -N1[4][5]U HV ^{3/16} -N2[4][5]U HV ^{3/16} -N3[4][5]U HV ^{3/8} -N2[4][5]U HV ^{3/8} -N3[4][5]U HV ^{3/8} -N4[4][5]U HV ^{1/2} -N2[4][5]U HV ^{1/2} -N3[4][5]U HV ^{1/2} -N4[4][5]U	Straight B HV Add	HV01-4[4][5] HV01-6[4][5] HV02-6[4][5] HV03-6[4][5] HV01-8[4][5] HV02-8[4][5] HV03-8[4][5] HV02-10[4][5] HV03-10[4][5] HV04-10[4][5] HV02-12[4][5] HV03-12[4][5] HV04-12[4][5] HV01- ^{5/32} [4][5] HV01- ^{3/16} [4][5] HV02- ^{3/16} [4][5] HV03- ^{3/16} [4][5] HV01- ^{1/4} [4][5] HV02- ^{1/4} [4][5] HV03- ^{1/4} [4][5] HV01- ^{5/16} [4][5] HV02- ^{5/16} [4][5] HV03- ^{5/16} [4][5] HV02- ^{3/8} [4][5] HV03- ^{3/8} [4][5] HV04- ^{3/8} [4][5] HV02- ^{1/2} [4][5] HV03- ^{1/2} [4][5] HV04- ^{1/2} [4][5]	HVN1- ^{3/16} [4][5]U HVN2- ^{3/16} [4][5]U HVN3- ^{3/16} [4][5]U HVN1- ^{1/4} [4][5]U HVN2- ^{1/4} [4][5]U HVN3- ^{1/4} [4][5]U HVN1- ^{5/16} [4][5]U HVN2- ^{5/16} [4][5]U HVN3- ^{5/16} [4][5]U HVN2- ^{3/8} [4][5]U HVN3- ^{3/8} [4][5]U HVN4- ^{3/8} [4][5]U HVN2- ^{1/2} [4][5]U HVN3- ^{1/2} [4][5]U HVN4- ^{1/2} [4][5]U	Union Straight HV Add	HV4-4[4][5] HV6-4[4][5] HV6-6[4][5] HV8-6[4][5] HV8-8[4][5] HV10-10[4][5] HV12-10[4][5] HV12-12[4][5] HV ^{5/32} - ^{3/32} [4][5] HV ^{3/16} - ^{3/16} [4][5] HV ^{1/4} - ^{5/32} [4][5] HV ^{1/4} - ^{3/16} [4][5] HV ^{1/4} - ^{1/4} [4][5] HV ^{5/16} - ^{1/4} [4][5] HV ^{5/16} - ^{5/16} [4][5] HV ^{3/8} - ^{3/8} [4][5] HV ^{1/2} - ^{3/8} [4][5] HV ^{1/2} - ^{1/2} [4][5]
Threaded Union HV	HV01-01[4][5] HV02-01[4][5] HV02-02[4][5] HV03-02[4][5] HV03-03[4][5]	HVN1-N1[4][5]U HVN2-N1[4][5]U HVN2-N2[4][5]U HVN3-N2[4][5]U HVN3-N3[4][5]U	Bracket for Union Straight type HVH New	HVH5 HVH7			



Notes

- *1. " " in the list is newly added products.
- *2. For [4] in model code, please select a code for number of valve port, for [5], please select a body color code.
- *3. Release-ring color is white for inch-size products.
- *4. Material of union type mounting bracket is POM.



CAD data is available
at PISCO website.



Packaging specifications
1 pc. /bag



Options

Code	[5] : -W
Specifications	Light gray