

Check valve CHV2 Series



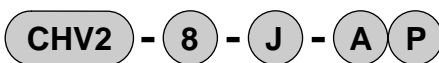
Features

- Wide variation
Port size; Rc1/8 to Rc1 1/2 are available.
- Compact and lightweight
34% reduced in volume and 25% reduced in weight (CKD comparison).
- Various options
Fluoro rubber and oil-prohibition are joined in option. Mounting bracket is available for small bore size type.
- Stylish shape
- Ecological
Easy sorting materials for recycling. **RoHS**

Specifications

Model no.	CHV2-6	CHV2-8-J	CHV2-8	CHV2-10-J	CHV2-10	CHV2-15	CHV2-20	CHV2-25	CHV2-32	CHV2-40
Working fluid	Compressed air									
Max. working pressure MPa	1									
Min. working pressure MPa	0.03									
Withstanding pressure MPa	1.5									
Cracking pressure MPa	0.02									
Fluid temperature °C	5 to 60									
Ambient temperature °C	0 to 60 (no freezing)									
Port size Rc	1/8	1/4		3/8		1/2	3/4	1	1 1/4	1 1/2
Product weight g	47	81		140		265		875		
Effective sectional area mm ²	28	55	60	94	110	220	250	700	730	

How to order



Model no.

A Port size

Small flow compact type
Note 1

B Option
Note 2

C Accessory
Note 3

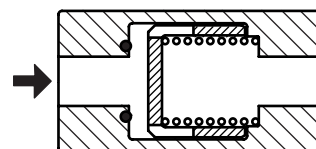
Symbol	Descriptions
A Port size	
6	Rc1/8
8	Rc1/4
10	Rc3/8
15	Rc1/2
20	Rc3/4
25	Rc1
32	Rc1 1/4
40	Rc1 1/2
B Option	
Blank	No option
A	Fluoro rubber specifications
P8	Oil-prohibited specifications
C Accessory	
Blank	None
P	Mounting plate attached

Note 1: The small flow compact type (J) is available only for port size Rc1/4 (8) or Rc3/8 (10).

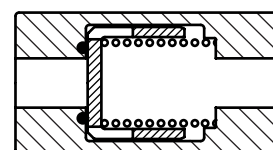
Note 2: Options are indicated in alphabetic order. (AP8)

Note 3: Mounting plate comes with CHV2-6, CHV2-8-J, CHV2-8 and CHV2-10-J.

Operational principle



The valve will be fully opened if the pressure is applied in the arrow (→) direction indicated on the side of body, then the air flows as free flow.



The valve will be closed if the pressure is applied in counter direction to arrow (←) indicated on the side of body, then the air will be shut off.

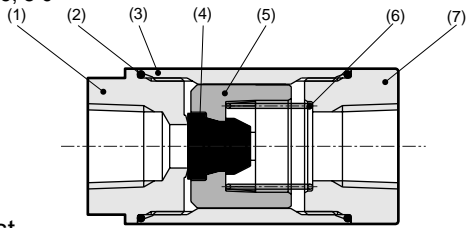
Refer to "Safety precautions" on the back of this catalog before starting use.

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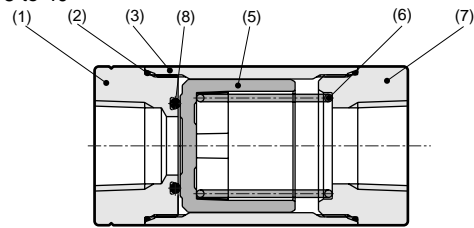
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Internal structure and parts list

●CHV2-6, 8-J



●CHV2-8 to 40

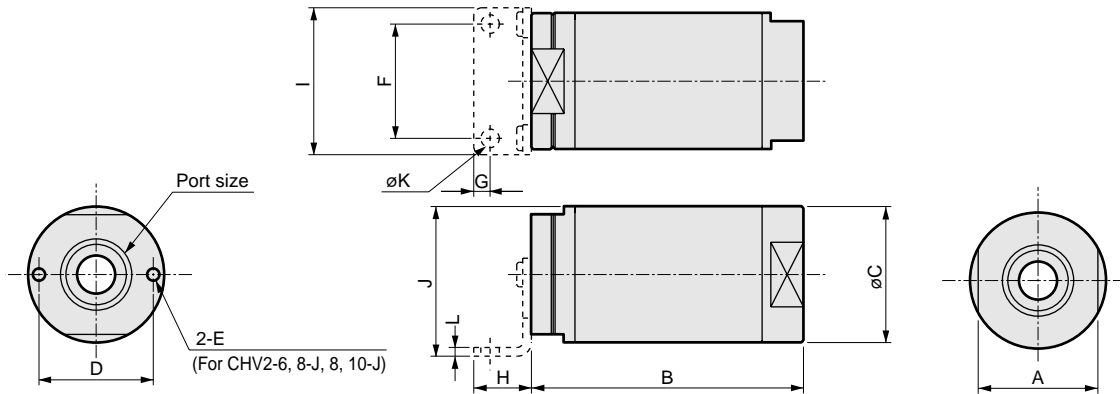


Parts list

No.	Parts name	Material	No.	Parts name	Material
1	Guard A	Aluminum alloy	5	Valve guide	Polyacetal
2	O ring	Nitrile rubber (fluoro rubber)	6	Coil spring	Stainless steel
3	Tube	Aluminum alloy	7	Guard B	Aluminum alloy
4	Valve element	Nitrile rubber (fluoro rubber)	8	O ring	Nitrile rubber (fluoro rubber)

* The value in () is for option "A" (fluoro rubber specifications).

Dimensions



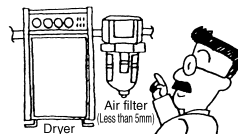
Dimensions table

Model no.	Port size	A	B	øC	D	E	F	G	H	I	J	øK	L
CHV2-6	Rc1/8	22	50	25	21	M2.5	21	3	10.5	27	27.5	3.4	1.6
CHV2-8-J	Rc1/4												
CHV2-8		27	60	31	26	M3	25	5	14	32	34	4.4	
CHV2-10-J	Rc3/8												
CHV2-15	Rc1/2	32	75	38	-	-	-	-	-	-	-	-	-
CHV2-20	Rc3/4	42	95	47	-	-	-	-	-	-	-	-	-
CHV2-25	Rc1	63	140	72	-	-	-	-	-	-	-	-	-
CHV2-32	Rc1 1/4												
CHV2-40	Rc1 1/2												

⚠ safety precautions Refer to 'Safety precautions' in [Pneumatic, vacuum and auxiliary components (No. CB-24SA)] as well.

■ Installation & Adjustment

- Apply with recommended tightening torque when connecting pipes to prevent air leakage and damage of screw.
 - Tighten by hand first, then use a tool to prevent damage on screw thread.
 - Do not tighten the setscrew as applying pressure.
- Pipe so as not to be dislocated due to device movement, vibration, or tension.
 - Pipe dislocation on exhaust side in air pressure circuit will cause actuator to be uncontrollable.
 - With chuck holding mechanism, chuck will open, so this could cause dangerous situations.
- Install an air filter just before the pneumatic component in the circuit.



(Recommended tightening torque)

Port thread	Tightening torque N·m
M5	1.0 to 1.5
Rc1/8	3 to 5
Rc1/4	6 to 8
Rc3/8	13 to 15
Rc1/2	16 to 18
Rc3/4	19 to 40
Rc1	41 to 70
Rc1 1/4	43 to 75
Rc1 1/2	45 to 80

■ During use & Maintenance

- Stop supplying air and make sure of no residual pressure when replacing tube.
- Use width across flats on same piping side when removing this product from pipe.

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<Website>
http://www.ckd.co.jp/

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