

New Products

Check valve **CHV2 Series**



Features

- Wide variation
 - Port size; Rc1/8 to Rc11/2 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

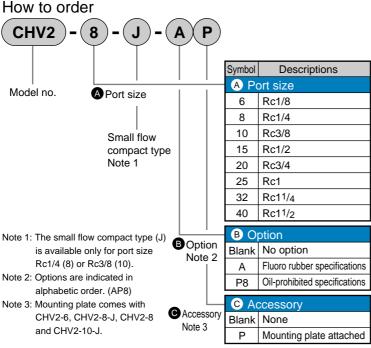
Easy sorting materials for recycling. RoHS



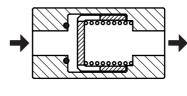
Specifications

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	CHV2-6 CHV2-8-J CHV2-8 CHV2-10-J CHV2-10 CHV2-15 CHV2-20 CHV2-25 CHV2-32 CHV2 Compressed air									
Max. working pressure MPa										
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	11/4	11/2
Product weight g	4	47	8	1 1		140		265		75
Effective sectional area mm²	onal area mm² 28 55 60		94	110	220	250	700	730		

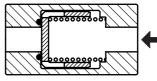




Operational principle



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



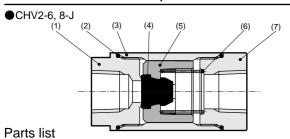
The valve will be closed if the pressure is applied in counter ■ direction to arrow (→) indicated on the side of body, then the air will be shut off.

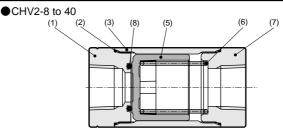


Refer to "Safety precautions" on the back of this catalog before starting use.

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Internal structure and parts list

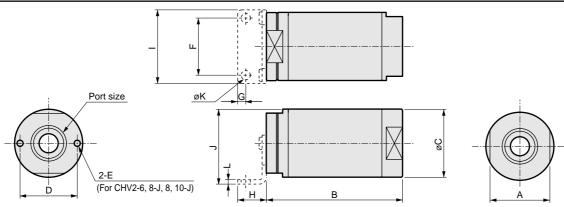




No.	Parts name	Material	No.	Parts name	Material
1	Guard A	Aluminum alloy	5	Valve guide	Polyacetal
2	O ring	Nitrile rubber (fluoro rubber)	6	Coil spring	Stainless steel
3	Tube	Aluminum alloy	7	Guard B	Aluminum alloy
4	Valve element	Nitrile rubber (fluoro rubber)	8	O ring	Nitrile rubber (fluoro rubber)

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

Dimensions



Dimensions table

Difficiolofis table													
Model no.	Port size	Α	В	øС	D	Е	F	G	Н	1	J	øK	L
CHV2-6	Rc1/8	22	50	25	21	M2.5	21	3	10.5	27	27.5	3.4	
CHV2-8-J	Rc1/4	22	30	25	21	1012.5	21	3	10.5	21	21.5	5.4	1.6
CHV2-8	KC1/4	27	60	31	26	М3	25	5	14	32	34	4.4	
CHV2-10-J	D-0/0	21	00										
CHV2-10	Rc3/8	- 32	75	38	-	-	-	-	-	-	-	-	-
CHV2-15	Rc1/2												
CHV2-20	Rc3/4	- 42	95	47	-	-	-	-	-	-	-	-	-
CHV2-25	Rc1		95	4/									
CHV2-32	Rc11/4	63	140	0 72	-	-	-	-	-	-	-	-	-
CHV2-40	Rc11/2		140										



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)

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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				
Rc11/4	43 to 75				
Rc11/2	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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