



Check valve

CHV2 Series

● Port size: Rc¹/₈ to Rc¹/₂

JIS symbol



Structure and material restriction

| | Structure/treatment | Material restriction | | | Model No. |
|-----------|----------------------------|-----------------------------------|------------------------------------|--|-----------|
| P7 Series | Dust generation preventing | | | | - P70 |
| | Dust generation preventing | Copper-based materials prohibited | Silicon-based materials prohibited | Halogen-based materials prohibited (fluorine, chlorine, bromine) | - P74 |
| P8 Series | Oil-prohibited | | | | - P80 |

Specifications

| Descriptions | 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 | 1.0 | | | | | | | | | |
| Min. working pressure MPa | 0.03 | | | | | | | | | |
| Proof 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 |
| Weight g | 47 | | 81 | | 140 | | 265 | | 875 | |
| Effective cross-sectional area mm ² | 28 | | 55 | | 60 | | 94 | | 110 | |

How to order



Model No.

A Port size

Compact, small flow rate
*1

B Option

C Clean room specifications

| Code | Content |
|--------------------|---------|
| A Port size | |
| 6 | Rc1/8 |
| 8 | Rc1/4 |
| 10 | Rc3/8 |
| 15 | Rc1/2 |
| 20 | Rc3/4 |
| 25 | Rc1 |
| 32 | Rc1 1/4 |
| 42 | Rc1 1/2 |

| B Option | |
|-----------------|------------------------------|
| Blank | No option |
| A | Fluoro rubber specifications |

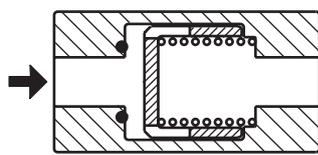
| C Clean room specifications | | |
|------------------------------------|----------------------------|---|
| | Structure/treatment | Material restriction |
| P70 | Dust generation preventing | - |
| P74 | Dust generation preventing | Copper-based/silicon-based/halogen-based materials (fluorine, chlorine, bromine) are prohibited |
| P80 | Oil-prohibited | - |

*1: Compact, small flow rate (J) is applicable only for port size Rc1/4 (8) and Rc3/8 (10).

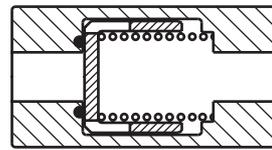
* 1: P80 Series

- Metal material Brass is not used.
- Sealant material Nitrile rubber (NBR)
- Without grease Grease is not used as this is oil-prohibited specifications. For this reason, it is same product as P84 Series. Specify in P80 Series when placing an order.

Operational principle

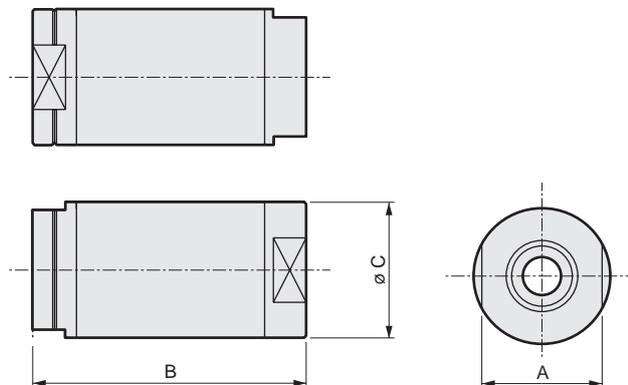
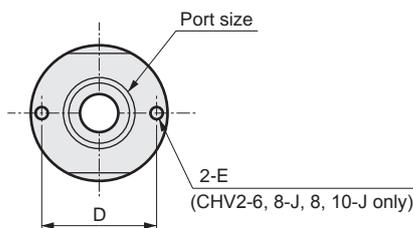


If pressurized from arrow direction on the side body, the valve fully opens, allowing free flow.



If pressurized from reverse direction of arrow on the side body, the valve closes and flow is interrupted.

Dimensions



| Model No. | Port size | A | B | ø C | D | E |
|---------------|-----------|----|-----|-----|----|------|
| CHV2-6-P** | Rc1/8 | 22 | 50 | 25 | 21 | M2.5 |
| CHV2-8-J-P** | Rc1/4 | | | | | |
| CHV2-8-P** | Rc3/8 | 27 | 60 | 31 | 26 | M3 |
| CHV2-10-J-P** | | 32 | 75 | 38 | - | - |
| CHV2-10-P** | Rc1/2 | 42 | 95 | 47 | - | - |
| CHV2-15-P** | Rc3/4 | 63 | 140 | 72 | - | - |
| CHV2-20-P** | Rc1 | | | | | |
| CHV2-25-P** | Rc1 1/4 | | | | | |
| CHV2-32-P** | Rc1 1/2 | | | | | |
| CHV2-40-P** | | | | | | |

⚠ Refer to safety precautions and "Pneumatic, Vacuum and Auxiliary Components (No. CB-24SA)" safety precautions as well.

■ Mounting / Installation / adjustment

- Apply recommended tightening torque when connecting pipes.
 - To prevent air leak and to protect threads from damage.
 - First tighten the screw by hand to prevent threads from being damaged, then use a tool.
 - Do not tighten while pressure is applied.
- Connect piping so that connections are not dislocated by system movement, vibration, or tension, etc.
 - Control of actuator speed will be disabled if piping on the exhaust face of the pneumatic circuit is disengaged.
 - When using the chuck holding mechanism, the chuck will be released creating a hazardous state.
- Install an air filter just before the pneumatic component in the circuit.

■ During use & maintenance

- Stop air flow and confirm that there is no residual pressure before replacing the tube.
- When removing piping from this product, use the tang on the piping to be removed.

(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 |

| |
|----------------------------------|
| SCPD3 |
| SCM |
| SSD2 |
| MDC2 |
| SMG |
| LCM |
| LCR |
| LCG |
| LCX |
| STM |
| STG |
| STR2 |
| MRL2 |
| GRC |
| Cylinder Switch |
| MN3E MN4E |
| 4GA/B |
| M4GA/B |
| MN4GA/B |
| F.R.(module unit) |
| Clean F.R |
| Precision R |
| Press gauge Diff. press gauge |
| Electro-pneumatic R |
| Speed controller |
| Auxiliary valve |
| Fitting/tube |
| Clean air unit |
| Pressure sensor |
| Flow rate sensor |
| Valve for air blow |
| Ending |