

Discontinue

Check valve

## CHV Series

Perfectly preventing reverse flow of compressed air, etc. Wide variation in 10 types.

- Port size: Rc1/8 to Rc1<sup>1</sup>/<sub>2</sub>

JIS symbol



CAD DATA AVAILABLE.

Discontinued since 2002/8.

### Specifications

| Descriptions                 | CHV-6          | CHV-8-J | CHV-8 | CHV-10-J | CHV-10 | CHV-15 | CHV-20 | CHV-25 | CHV-32 | CHV-40 |
|------------------------------|----------------|---------|-------|----------|--------|--------|--------|--------|--------|--------|
| Working fluid                | Compressed air |         |       |          |        |        |        |        |        |        |
| Max. working pressure MPa    | 1              |         |       |          |        |        |        |        |        |        |
| Min. working pressure MPa    | 0.015          |         | 0.01  |          |        |        | 0.03   |        |        |        |
| Withstanding pressure MPa    | 1.5            |         |       |          |        |        |        |        |        |        |
| Cracking pressure MPa        | 0.015          |         | 0.01  |          |        |        | 0.03   |        |        |        |
| Ambient temperature °C       | 5 to 60        |         |       |          |        |        |        |        |        |        |
| Port size Rc                 | 1/8            | 1/4     | 1/4   | 3/8      | 3/8    | 1/2    | 3/4    | 1      | 1¼     | 1½     |
| Product mass g               | 40             |         | 120   |          | 170    |        | 880    |        | 2000   |        |
| Effective sectional area mm² | 10             |         | 45    |          | 94     | 110    | 210    | 285    | 550    | 785    |

### How to order

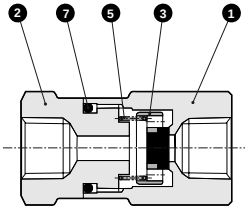
CHV - 8 - (J)

Small flow rate small type

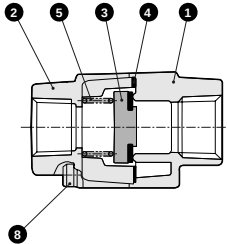
| A  | Port size                       |
|----|---------------------------------|
| 6  | Rc1/8                           |
| 8  | Rc1/4                           |
| 10 | Rc3/8                           |
| 15 | Rc1/2                           |
| 20 | Rc3/4                           |
| 25 | Rc1                             |
| 32 | Rc1 <sup>1</sup> / <sub>4</sub> |
| 40 | Rc1 <sup>1</sup> / <sub>2</sub> |

#### Internal structure and parts list

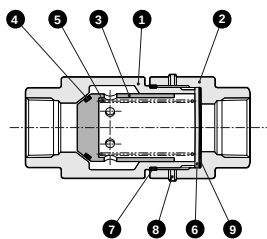
• CHV-6



• CHV-8 to 15

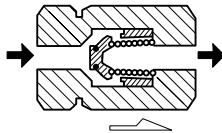


• CHV-20 to 40

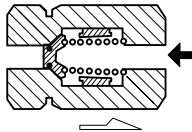


| No. | Parts name | CHV-6<br>CHV-8-J            | CHV-8<br>CHV-10-J                   | CHV-10<br>CHV-15                | CHV-20<br>CHV-25     | CHV-32<br>CHV-40     |
|-----|------------|-----------------------------|-------------------------------------|---------------------------------|----------------------|----------------------|
| 1   | Main body  | Aluminum alloy              | Aluminum die casting                | Aluminum die casting            | Aluminum die casting | Aluminum die casting |
| 2   | Plug       | Aluminum alloy              | Aluminum die casting                | Aluminum die casting            | Aluminum die casting | Aluminum die casting |
| 3   | Valve seat | Polyacetal / nitrile rubber | Polyacetal / nitrile rubber / brass | Nitrile rubber / aluminum alloy | Brass                | Brass                |
| 4   | O ring     | —                           | —                                   | Nitrile rubber                  | Nitrile rubber       | Nitrile rubber       |
| 5   | Spring     | Stainless steel             | Stainless steel                     | Stainless steel                 | Stainless steel      | Stainless steel      |
| 6   | Cushion    | —                           | —                                   | —                               | Polyacetal           | Polyethylene         |
| 7   | O ring     | Nitrile rubber              | Nitrile rubber                      | —                               | Nitrile rubber       | Nitrile rubber       |
| 8   | Set screw  | —                           | Steel                               | Steel                           | Steel                | Steel                |
| 9   | Gasket     | —                           | —                                   | —                               | —                    | Nitrile rubber       |

#### Operational principle



If pressurized from arrow → direction on the side body, the valve fully opens, and the flow turns to free flow.



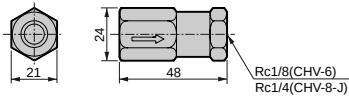
If pressurized from reverse direction of arrow → on the side body, the valve closes, and flow is interrupted.

Refrigerating type dryer  
Desiccant type dryer  
High polymer membrane dryer  
Air filter  
Automatic drain other  
F.R.L (Module)  
F.R.L (Separate)  
Small F.R.  
Precise R.  
Electro pneumatic R.  
Auxiliary  
Flow control valve  
Silencer  
Check valve / others  
Joint / tube  
Vacuum F.  
Vacuum R.  
Vacuum generator  
Vacuum auxiliary / pad  
Mechanical pressure SW  
Electronic pressure SW  
Electronic dif. pres. SW  
Seating / close contact conf. SW  
Pressure SW for coolant  
Flow sensor for air  
Total air system  
Water cooling refrigerator  
Flow sensor for water  
Auxiliary valve  
Check valve

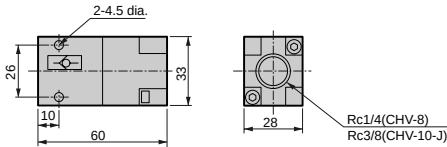
Dimensions

 (File name: Page 671 or Ending 22)

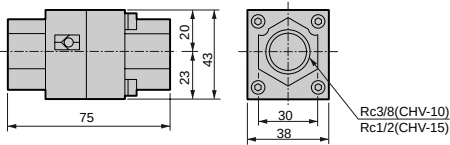
• CHV-6 / CHV-8-J



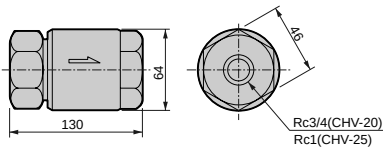
• CHV-8 / CHV-10-J



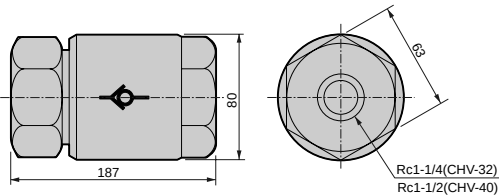
• CHV-10 / CHV-15



• CHV-20 / CHV-25

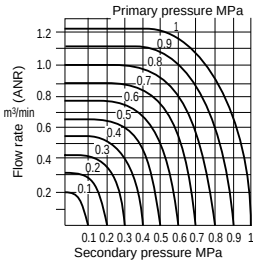


• CHV-32 / CHV-40

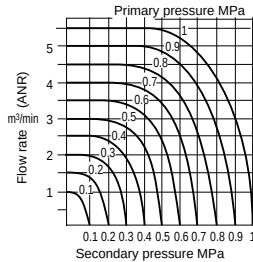


#### Flow characteristics

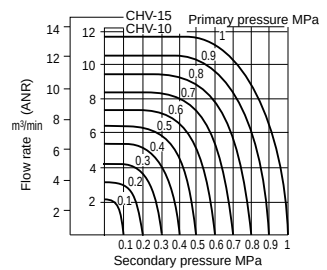
##### • CHV-6 / CHV-8-J



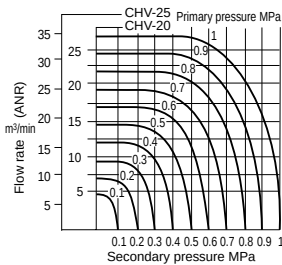
##### • CHV-8 / CHV-10-J



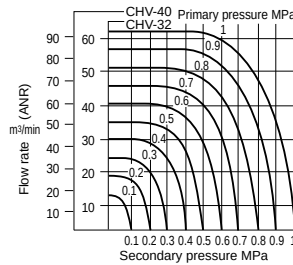
##### • CHV-10 / 15



##### • CHV-20 / 25



##### • CHV-32 / 40



#### ⚠ Precautions

- The installation attitude is free. When vibration is generated in low pressure range (0.05MPa or less), if installation attitude is changed, vibration may stop.  
When pipe before and after the product is restricted excessively, or when differential pressure is small, vibration is easily generated. So, care should be taken.
- Air flows only to the arrow direction on side body. Check the arrow before piping.

|                                  |
|----------------------------------|
| Refrigerating type dryer         |
| Desiccant type dryer             |
| High polymer membrane dryer      |
| Air filter                       |
| Automatic drain other            |
| F.R.L (Module)                   |
| F.R.L (Separate)                 |
| Small F.R.                       |
| Precise R.                       |
| Electro pneumatic R.             |
| Auxiliary                        |
| Flow control valve               |
| Silencer                         |
| Check valve / others             |
| Joint / tube                     |
| Vacuum F.                        |
| Vacuum R.                        |
| Vacuum generator                 |
| Vacuum auxiliary / pad           |
| Mechanical pressure SW           |
| Electronic pressure SW           |
| Electronic dif. pres. SW         |
| Sealing / close contact conf. SW |
| Pressure SW for coolant          |
| Flow sensor for air              |
| Total air system                 |
| Water cooling refrigerator       |
| Flow sensor for water            |

Auxiliary valve  
Check valve