

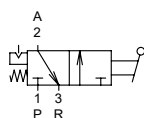


Technical data

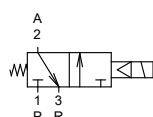


(Lock is not attached)

### Symbol



### Symbol



### Specification – Manual type

| Model                                | MVHR-302 / 400         |     |       |
|--------------------------------------|------------------------|-----|-------|
| Bore No.                             | 8A                     | 10A | 15A   |
| Port size                            | 1/4                    | 3/8 | Rc1/2 |
| No. of port                          | 3                      |     |       |
| No. of position                      | 2                      |     |       |
| Medium                               | Air                    |     |       |
| Operating pressure range             | 0.1~1 MPa              |     |       |
| Proof pressure                       | 1.5 MPa                |     |       |
| Effective orifice (mm <sup>2</sup> ) | IN→OUT                 | 56  | 66    |
|                                      | OUT→EXH                | 45  | 58    |
| Ambient temperature                  | -5~+60°C (No freezing) |     |       |
| Weight                               | 304g / 311g            |     |       |

### Specification – Solenoid type

| Model                                | MVHR-302S / 400S              |                                     |       |    |
|--------------------------------------|-------------------------------|-------------------------------------|-------|----|
| Bore No.                             | 8A                            | 10A                                 | 15A   |    |
| Port size                            | 1/4                           | 3/8                                 | Rc1/2 |    |
| No. of port                          | 3                             |                                     |       |    |
| No. of position                      | 2                             |                                     |       |    |
| Medium                               | Air                           |                                     |       |    |
| Operating pressure range             | 0.15~1 MPa                    |                                     |       |    |
| Proof pressure                       | 1.5 MPa                       |                                     |       |    |
| Effective orifice (mm <sup>2</sup> ) | IN→OUT                        | 39                                  | 56    | 66 |
|                                      | OUT→EXH                       | 39                                  | 45    | 58 |
| Ambient temperature                  | -5~+60°C (No freezing)        |                                     |       |    |
| Voltage                              | AC110V, 220V (50/60)Hz, DC24V |                                     |       |    |
| Power consumption                    | Standard                      | AC=4.8/4.4VA, 6/4.9VA, DC=2W        |       |    |
|                                      | Power saving                  | DC=Start: 2W (★) Power saving: 0.5W |       |    |
| Available voltage range              | ±10%                          |                                     |       |    |
| Insulation class                     | F class                       |                                     |       |    |
| Weight                               | 378g / 385g                   |                                     |       |    |

\* Power saving covert time 100ms.

### Order example

MVHR – 302 □ – 3H – 8A – 1 □ – DC24 – □ – B – G

MODEL

CONTROL MODEL  
Blank: Manual type  
S: Solenoid type

PORT SIZE  
8A: 1/4  
10A: 3/8  
15A: 1/2

FLOW DIRECTION  
Blank: Left to right  
R: Right to left

VOLTAGE  
\*Only for solenoid type  
AC220V(50/60)Hz  
AC110V(50/60)Hz  
DC24V

BRACKET  
Blank: Without  
B: With bracket

PORT THREAD  
Blank: Rc thread  
G: G thread  
NPT: NPT thread

MODEL for F.R.L  
302: for MA\*\*302 series  
400: for MA\*\*401, 403 series

Apply to MVHR-400  
1: Silver (For air unit 401 series)  
3: Cool gray (For air unit 401-W, 403 series)

3H: 3way(3port)  
(Residual pressure release)

ELECTRIC CONNECTION \*Only for solenoid type

|                          |                                            |
|--------------------------|--------------------------------------------|
| Standard                 |                                            |
| Blank                    | DIN terminal                               |
| L                        | DIN terminal with LED indicator            |
| E                        | Explosion protection (Table 1)(Black coil) |
| Power saving (for DC24V) |                                            |
| KL                       | DIN terminal with LED indicator            |

### Order example of bracket

MVHR – 302 – B

BRACKET

\* 302 and 400 use the same bracket.

Table 1

### Property for explosion-proof type

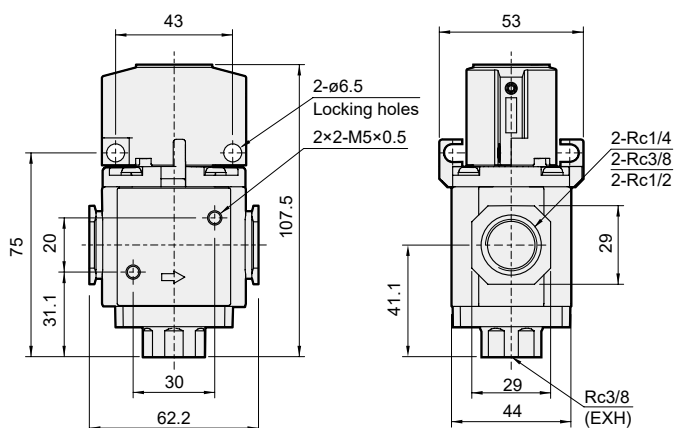
|                         |                                   |
|-------------------------|-----------------------------------|
| Anti-explosion class    | Ex mb IIC T4 Gb                   |
| Voltage                 | AC110V / 220V(50/60)Hz, DC24V     |
| Power consumption       | AC110V=4.5VA, AC220V=4.8VA, DC=5W |
| Available voltage range | ±10%                              |
| Insulation class        | F class                           |
| Wire length             | 3 m                               |

### ⚠ Precautions

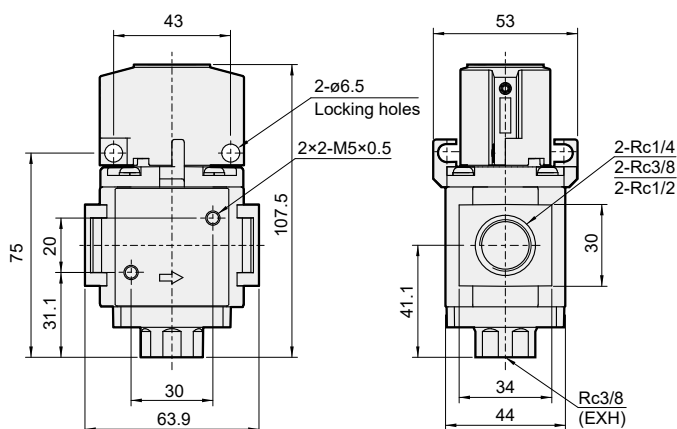
Please note during trial operation and maintenance.

- ❶ When the A port is open to the atmosphere, do not switch the valve to prevent leakage and malfunction of the seal ring due to fluid flow.
- ❷ Dust entering the valve body will cause malfunction or damage to the seal.
- ❸ Please install a filter and oil mist separator on the inlet side (With a filtration of 5 micron or lower).
- ❹ Be sure of cleaning the cutting fluid and foreign material in the pipe before connection to avoid malfunction.
- ❺ The internal grease may flow out on the outlet side, so it is not recommended to use it in a completely oil-free environment in pipe.
- ❻ When operating the knob, switch quickly and accurately to avoid malfunction.
- ❼ When activating the shut-off valve (residual pressure release), make sure that the pressure difference between port A and port P is not less than 0.3 MPa to avoid malfunction.

### MVHR-302

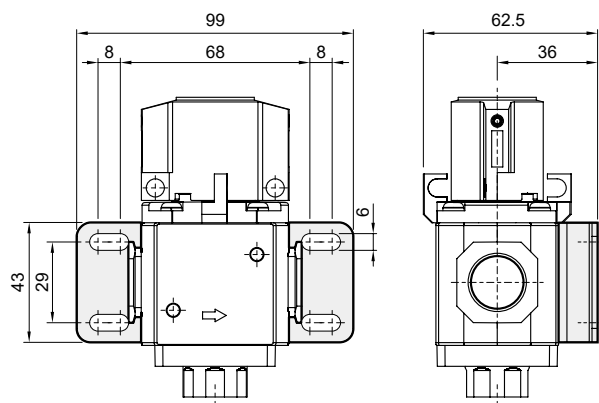


### MVHR-400



### MVHR-\*-B

Bracket

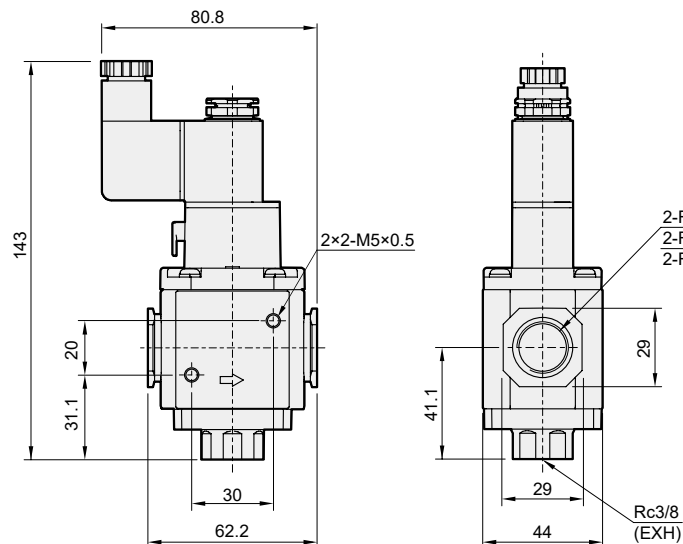


# MVHR Dimensions – Solenoid type

ON-OFF VALVE

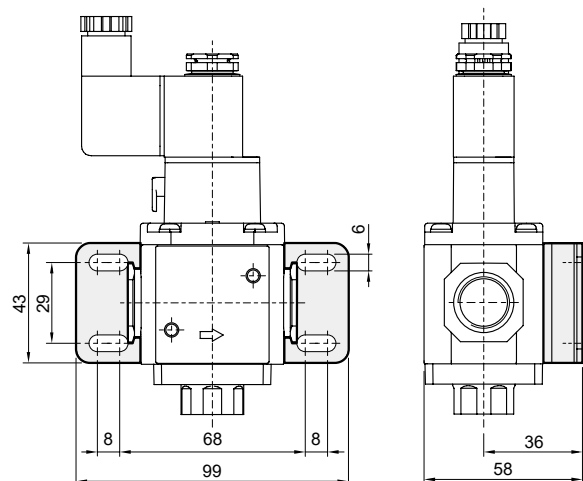


**MVHR-302S**



**MVHR-\*S-\*-B**

Bracket



**MVHR-400S**

