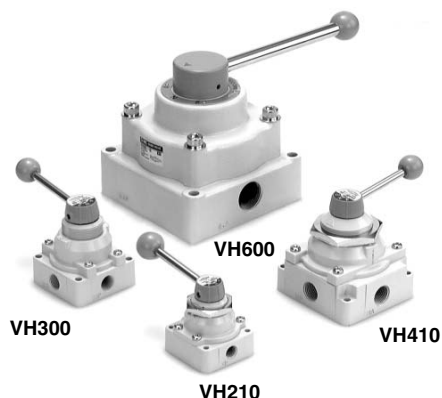


# Hand Valve Series *VH*



## Specifications

|                                                     |                                                                 |         |
|-----------------------------------------------------|-----------------------------------------------------------------|---------|
| Fluid                                               | Air                                                             |         |
| Proof pressure                                      | 1.5 MPa                                                         |         |
| Max. operating pressure                             | VH200/300/400                                                   | 1.0 MPa |
|                                                     | VH600                                                           | 0.7 MPa |
| Ambient temperature and operating fluid temperature | -5 to 60°C (No freezing)                                        |         |
| Operating angle                                     | 90°                                                             |         |
| Lubrication                                         | Not required (Use turbine oil Class 1 ISO VG32, if lubricated.) |         |

## Option

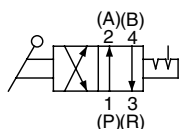
|                                            |                          |
|--------------------------------------------|--------------------------|
| Bottom ported                              | VH300/400                |
| Panel mounted                              | VH200/300/400            |
| Different P port location (On handle side) | All models applicable *□ |



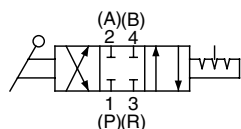
\* Note that 1(P) port of VH600 is located on handle side as standard. □

## Model

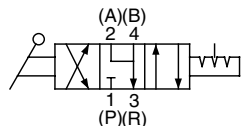
### JIS Symbol 2 position



### Closed center

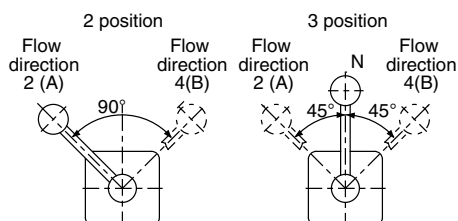


### Exhaust center



### Handle Operation Angle and Air Flow Direction

(Refer to the figures of piping direction to the right.)



| Series | Port size<br>Rc  | Number of<br>positions | Piping direction | Model          |                | Effective<br>area<br>(mm²)     | Weight<br>(kg) |
|--------|------------------|------------------------|------------------|----------------|----------------|--------------------------------|----------------|
|        |                  |                        |                  | Body mounted   | Panel mounted  |                                |                |
| VH2    | 1/4              | 3 (Closed center)      |                  | VH200-02       | VH210-02       | 7.5                            | 0.42           |
|        |                  | 3 (Exhaust center)     |                  | VH201-02       | VH211-02       |                                |                |
|        |                  | 2 (Position)           |                  | VH202-02       | VH212-02       |                                |                |
| VH3    | 1/4, 3/8         | 3 (Closed center)      |                  | VH300-02/03    | VH310-02/03    | Rc 1/4:<br>17                  | 0.71           |
|        |                  | 3 (Exhaust center)     |                  | VH301-02/03    | VH311-02/03    |                                |                |
|        |                  | 2 (Position)           |                  | VH302-02/03    | VH312-02/03    |                                |                |
|        |                  | 3 (Closed center)      |                  | VH320-02/03    | VH330-02/03    | Rc 3/8:<br>20                  |                |
|        |                  | 3 (Exhaust center)     |                  | VH321-02/03    | VH331-02/03    |                                |                |
|        |                  | 2 (Position)           |                  | VH322-02/03    | VH332-02/03    |                                |                |
| VH4    | 1/4<br>to<br>3/4 | 3 (Closed center)      |                  | VH400-02 to 06 | VH410-02 to 06 | Rc 1/4:<br>45                  | 1.28           |
|        |                  | 3 (Exhaust center)     |                  | VH401-02 to 06 | VH411-02 to 06 | Rc 3/8:<br>49                  |                |
|        |                  | 2 (Position)           |                  | VH402-02 to 06 | VH412-02 to 06 | Rc 1/2:<br>55                  |                |
|        |                  | 3 (Closed center)      |                  | VH420-02 to 06 | VH430-02 to 06 | Rc 3/4:<br>58                  |                |
|        |                  | 3 (Exhaust center)     |                  | VH421-02 to 06 | VH431-02 to 06 |                                |                |
|        |                  | 2 (Position)           |                  | VH422-02 to 06 | VH432-02 to 06 |                                |                |
| VH6    | 3/4, 1           | 3 (Exhaust center)     |                  | VH600-06/10    | —              | Rc 3/4:<br>185<br>Rc 1:<br>194 | 9.7            |

## How to Order

**VH 2 0 1 — 02 —**

**Hand valve** •

**Body size (Base size)** •

|   |          |
|---|----------|
| 2 | 1/4 base |
| 3 | 3/8 base |
| 4 | 1/2 base |
| 6 | 1 base   |

**Piping/Mounting** •

| Symbol | Piping <sup>(Note)</sup> | Mounting method |
|--------|--------------------------|-----------------|
| 0      | Side                     | Body            |
| 1      | Side                     | Panel mounting  |
| 2      | Bottom                   | Body            |
| 3      | Bottom                   | Panel mounting  |

 Note) Only side piping is available for VH200 and VH600 and R port is located on the bottom.

**1(P) port location**

|   |                                       |
|---|---------------------------------------|
| R | 1(P) port 180° location change        |
| L | Long handle (Applicable to VH300/400) |

\* When specifying more than one option, indicate symbols alphabetically.

**Port size (Nominal size)**

|    |     |
|----|-----|
| 02 | 1/4 |
| 03 | 3/8 |
| 04 | 1/2 |
| 06 | 3/4 |
| 10 | 1   |

**Thread type**

|     |     |
|-----|-----|
| Nil | Rc  |
| N   | NPT |
| F   | G   |

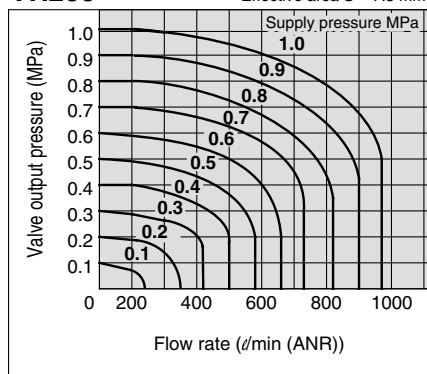
**Function** •

|   |                           |
|---|---------------------------|
| 0 | 3 position closed center  |
| 1 | 3 position exhaust center |
| 2 | 2 position                |

## Flow Characteristics

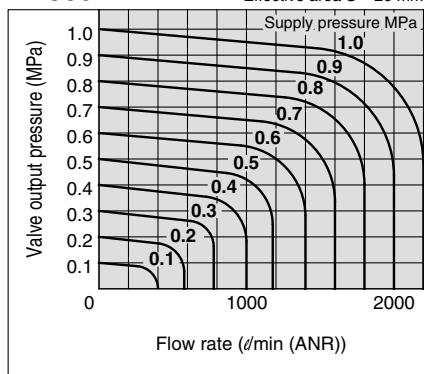
**VH200**

Effective area S = 7.5 mm<sup>2</sup>



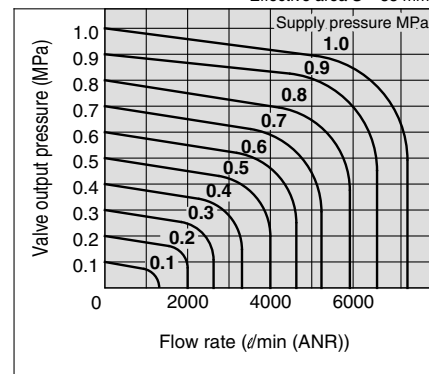
**VH300**

Effective area S = 20 mm<sup>2</sup>



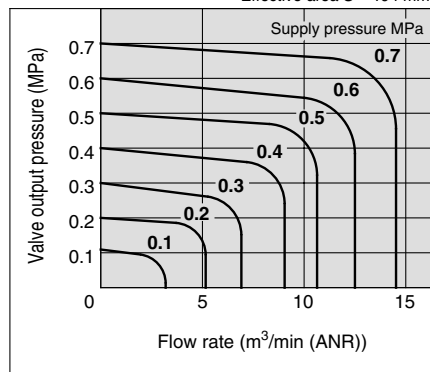
**VH400**

Effective area S = 55 mm<sup>2</sup>



**VH600**

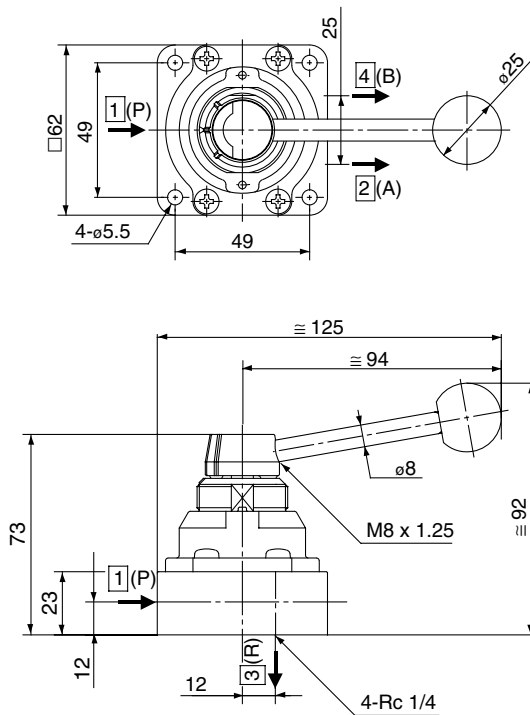
Effective area S = 194 mm<sup>2</sup>



# Series VH

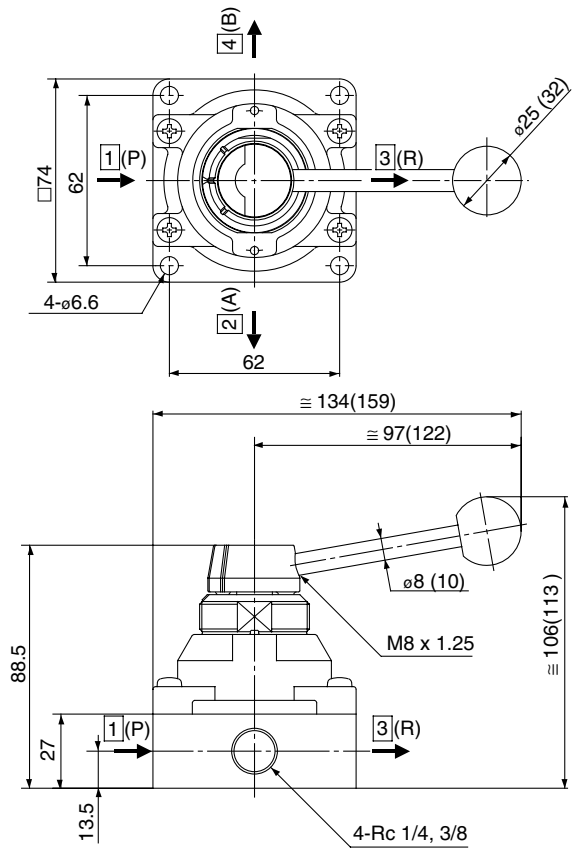
## Dimensions: Body Mounted

### VH20□-02



### VH30□-02/03

( ) : Long handle type



### VH32□-02/03 (Bottom ported)

