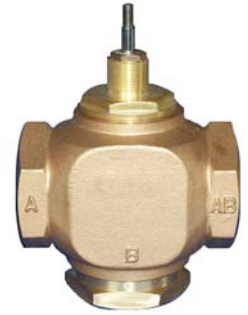


## VB-3000 SERIES BRASS VALVE

### DESCRIPTION

VB-3000 series brass valve is equipped with electrical control device, it can be used to control the flow of vapor or cool / heat water in central air-conditioning, heating, water handling and industrial processing industry system.



### MATERIAL DESCRIPTION AND TECHNICAL DATA

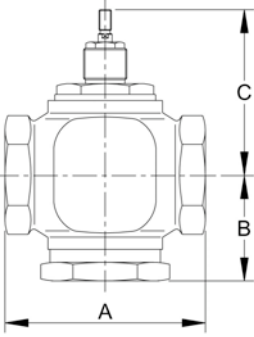
| PRODUCT                 |                  | VB-3000 Standard Valve                                     | VB-3000V High temperature valve (Vapor Valve)               |
|-------------------------|------------------|--|---|
| MATERIAL                | VALVE BODY       | Casting brass  | High intensity casting brass                                |
|                         | VALVE STEM       | 1Cr18Ni9   | 1Cr18Ni9  |
|                         | SEALING MATERIAL | Fluon filler and O-ring Nitrile rubber sealing combination | Fluon filler and O-ring Fluorine rubber sealing combination |
|                         | VALVE PLATE      | Forging brass with Nitrile rubber gasket                   | High intensity forging brass with Fluon gasket              |
| PRESSURE RATING         |                  | 1.6MPa (At 95°C)   | 1.6MPa (At 180°C)   |
| PIPE CONNECTION         |                  | G / BSP  |   |
| WORKING MEDIUM          |                  | Water  | Water / Vapor   |
| FLUID TEMPERATURE       |                  | 2~94°C   | 2~180°C   |
| FLOWING CHARACTERISTICS |                  | Equal percentage   |   |
| LEAKAGE                 |                  | Less than 0.05% of Kv factor                               |   |
| CLOSING DIRECTION       |                  | Valve stem goes up is closing                              |   |

### SPECIFICATIONS AND TECHNICAL DATA

| STANDARD VALVE MODEL | VAPOR VALVE MODEL | TYPE  | SIZE (DN) |     | KV | STANDARD VALVE MAX. DIFF. PRES. (MPa) |                  | VAPOR VALVE MAX. DIFF. PRES. (MPa) |                  | STROKE (mm) |
|----------------------|-------------------|-------|-----------|-----|----|---------------------------------------|------------------|------------------------------------|------------------|-------------|
|                      |                   |       | mm        | in  |    | FIT WITH VA-31XX                      | FIT WITH VA-32XX | FIT WITH VA-31XX                   | FIT WITH VA-32XX |             |
| VB-3200-25           | VB-3200-25V       | 2-Way | 25        | 1"  | 8  | 1.0                                   | 1.4              | 0.8                                | 1.2              | 15          |
| VB-3200-32           | VB-3200-32V       |       | 32        | 1¼" | 16 | 0.75                                  | 1.1              | 0.6                                | 1.0              | 19          |
| VB-3200-40           | VB-3200-40V       |       | 40        | 1½" | 25 | 0.5                                   | 0.8              | 0.4                                | 0.7              | 19          |
| VB-3200-50           | VB-3200-50V       |       | 50        | 2"  | 40 | 0.3                                   | 0.5              | 0.2                                | 0.4              | 22          |
| VB-3200-65           | VB-3200-65V       |       | 65        | 2½" | 63 | 0.2                                   | 0.35             | 0.2                                | 0.35             | 22          |
| VB-3300-25           | VB-3300-25V       | 3-Way | 25        | 1"  | 8  | 1.0                                   | 1.4              | 0.8                                | 1.2              | 15          |
| VB-3300-32           | VB-3300-32V       |       | 32        | 1¼" | 16 | 0.75                                  | 1.1              | 0.6                                | 1.0              | 19          |
| VB-3300-40           | VB-3300-40V       |       | 40        | 1½" | 25 | 0.5                                   | 0.8              | 0.4                                | 0.7              | 19          |

|            |             |  |    |     |    |     |      |     |      |    |
|------------|-------------|--|----|-----|----|-----|------|-----|------|----|
| VB-3300-50 | VB-3300-50V |  | 50 | 2"  | 40 | 0.3 | 0.5  | 0.2 | 0.4  | 22 |
| VB-3300-65 | VB-3300-65V |  | 65 | 2½" | 63 | 0.2 | 0.35 | 0.2 | 0.35 | 22 |

## DIMENSIONS

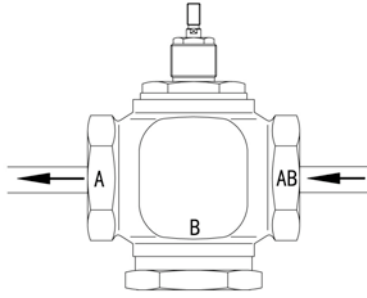
| FIGURE  | MODEL         | DIMENSIONS (mm) |     |     |
|---|---------------|-----------------|-----|-----|
|   |               | A               | B   | C   |
|  | VB-3200-25(V) | 110             | 63  | 108 |
|   | VB-3200-32(V) | 120             | 69  | 108 |
|   | VB-3200-40(V) | 130             | 71  | 111 |
|   | VB-3200-50(V) | 145             | 77  | 114 |
|   | VB-3200-65(V) | 175             | 83  | 121 |
|   | VB-3300-25(V) | 110             | 81  | 108 |
|   | VB-3300-32(V) | 120             | 85  | 108 |
|   | VB-3300-40(V) | 130             | 85  | 111 |
|   | VB-3300-50(V) | 145             | 96  | 114 |
|   | VB-3300-65(V) | 175             | 104 | 121 |

## INSTALLATION

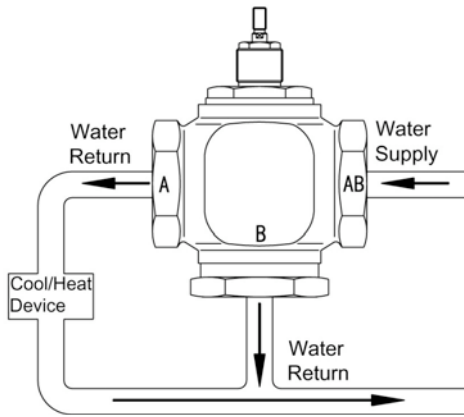
1. Before mounting the valve, make sure that the pipe is clean and free from soldering scraps, metal sheet, sand, stone or other sundries.
2. The pipe and valve body must be connected perfectly without vibration. The water flow direction should be the same as marked on the valve body.
3. If the valve is mounted in the factory, which is working with high temperature fluid (steam, overheated water, diathermic liquid), it is necessary to use expansion joint to avoid expanding the pipe and pressing the valve.
4. The actuator should be mounted vertically on the valve body, and avoid the actuator below the valve body. Remain enough space so that the actuator can be taken down from the valve body during the daily maintenance.
5. Power supply must be shut off or insulated when maintain the valve. There should not have pressure in the water system.
6. For other installation requirements, please refer to the Installation Instruction of the actuator.

## FLOW DIRECTION DIAGRAM

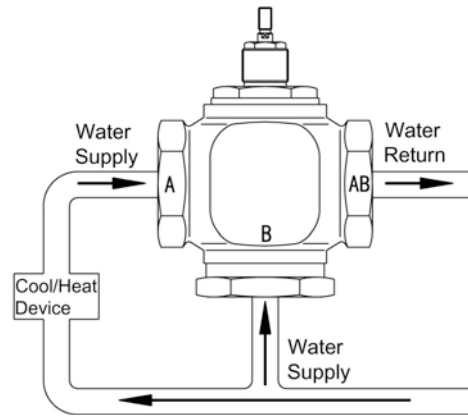
### TWO-WAY VALVE



### THREE-WAY VALVE



Diverting 3-way



Mixing 3-way