



Description

The motorized valve serie VB are used in heating and air-conditioning systems for the flow control of heated or chilled water and are motorized by the electrothermal actuator serie SVB. The small sizes allow easy installation in fan coils and terminal unit coils. The actuator-valve assembly is easily made thanks to its threaded ring nut, which allows a comfortable cable positioning.

Technical specifications valve VB

| | |
|-------------------------------|--|
| Medium | Hot and chilled water, water with up to 50% glycol |
| Fluid temperature | +2...+120°C |
| Nominal pressure | 16 bar |
| Stroke | 3 mm |
| Leakage | Perfect sealing |
| Connection type | Male thread |
| Installation position | See drawing |
| Maintenance | Free |
| Valve body | Forged brass |
| Valve stem | Stainless steel Aisi 301 |
| Sealing | HNBR |
| Dimensions and weights | See schedule |



| Models | Thread | Ways | KVs | Max differential pressure (bar) |
|--------|--------|-------------|-----|---------------------------------|
| VB215 | G 1/2 | 2 | 1.6 | 2.5 |
| VB220 | G 3/4 | 2 | 2.5 | 2.5 |
| VB225 | G 1" | 2 | 4,5 | 1.0 |
| VB315 | G 1/2 | 3 | 1.6 | 2.5 |
| VB320 | G 3/4 | 3 | 2.5 | 2.5 |
| VB325 | G 1" | 3 | 4,5 | 1.0 |
| VB415 | G 1/2 | 3 (4 ports) | 1.6 | 2.5 |
| VB420 | G 3/4 | 3 (4 ports) | 2.5 | 2.5 |
| VB425 | G 1" | 3 (4 ports) | 4.5 | 1.0 |

Technical specifications actuator SVB

| | |
|----------------------------|------------------------------------|
| Power consumption | 2,5 W (by starting) |
| Stroke | 4 mm (4,5 mm proportional version) |
| Running time | approx. 5 min. |
| Connection | Metal ring M30 x 1.5 |
| Materials | Self-extinguishing V0 |
| Cable | PVC 2 x 0,50 mm ² |
| Protection degree | IP54 |
| Protection class | II |
| Working range RH | 0...95% RH, non-condensing |
| Working range °C | -5...+50°C |
| Storage temperature | -25...+60°C |
| Standards | CE-conformity, RoHS |

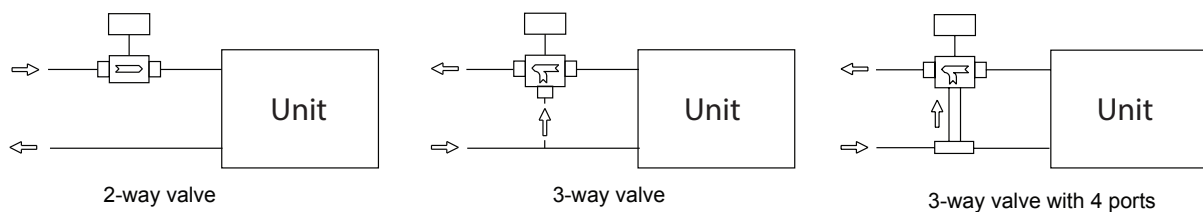
VB, SVB



| Models | Power supply | Action | Force | Contact rating |
|----------------|--------------|------------------|-------|-----------------------|
| SVB230 | 230 V AC | 2 punti / on/off | 110 N | - |
| SVB230C | 230 V AC | 2 punti / on/off | 110 N | Max 700 mA – 250 V AC |
| SVB24 | 24 V AC | 2 punti / on/off | 110 N | - |
| SVB24C | 24 V AC | 2 punti / on/off | 110 N | Max 700 mA – 250 V AC |
| SVB24M | 24 V AC | Modulante | 170 N | - |

Installation

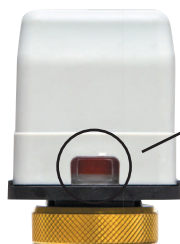
Before mounting the valve body be sure that the pipes are clean, free of soldering scraps and that the plug can glide freely. Note direction of flow reported on the valve body. 3-way-valves should be preferably used as mixing valves. The mounting diagrams are as following:



Wiring



Indication



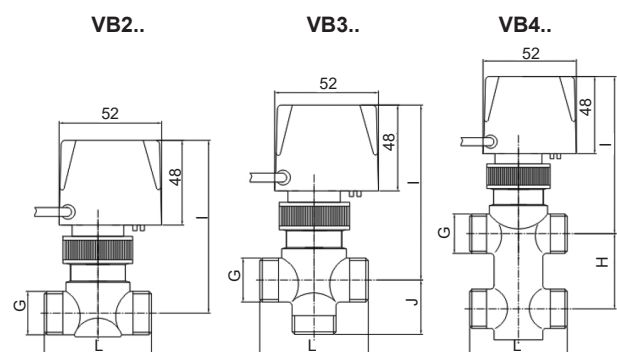
Stroke indicator

On the actuator there is a transparent window where the position of the valve stroke is indicated:

Red: Actuator off, direct way of valve close
 Black: Actuator on, direct way of valve open

Dimensions (mm)

| Models | Way | L | G | H | I | J |
|--------------|------------|----|-------|----|----|----|
| VB215 | 2 | 53 | G 1/2 | | 88 | |
| VB220 | 2 | 56 | G 3/4 | | 88 | |
| VB225 | 2 | 65 | G 1 | | 88 | |
| VB315 | 3 | 53 | G 1/2 | | 88 | 30 |
| VB320 | 3 | 56 | G 3/4 | | 88 | 30 |
| VB325 | 3 | 65 | G 1 | | 90 | 35 |
| VB415 | 3 (4 port) | 53 | G 1/2 | 40 | 88 | |
| VB420 | 3 (4 port) | 56 | G 3/4 | 40 | 88 | |
| VB425 | 3 (4 port) | 65 | G 1 | 50 | 90 | |



The contents are subject to revision or change without notice.