VSBP.M-VMBP.M

MODEL DN **Kvs STROKE** [inches] [m³/h] [mm] 2WAY 3 WAY VSBP3M VMBP3M 3/4" 6,3 1" VSBP4M VMBP4M 10 VSBP5M VMBP5M 1 1/4" 16 16,5 VSBP6M VMBP6M 1 1/2" 25 VSBP8M VMBP8M 2" 36

APPLICATION AND USE

VSBPM/VMBPM are control valves with modulating characteristic, which are composed of two-way (VSBPM) and three-way (VMBPM) valve body with tight close-off plug. They can be used in civil, industrial, zootechnic and purification plants, desiccators and in all applications where tight close-off is required.

TECHNICAL CHARACTERISTICS

Nominal pressure: 1600 kPa max (16 bar)

Valve body: G25 cast iron (brass for DN 1/2" only)

Plug: Rubber

Stem packing: Double EPDM O-ring with graphite

teflon scraper rings.

Leakage (% Kvs)*

VSBPM-VMBPM Direct way 0 (tight close-off)
VMBPM Angle way 0 (tight close-off)

Connections: Female threaded

Temperature limits: -5T95 °C

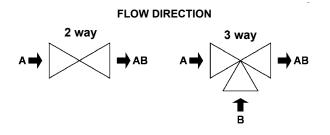
* Leakage is measured according to the EN1349 standard.

INSTALLATION

Observe the correct flow direction as indicated on the valve. Before mounting, make sure that pipes are clean, free from slags. It is essential that pipes are lined up with the valve at each connection

Valves can be mounted in any position.

Valves must not be installed in explosive atmosphere and at an ambient temperature below -5 C° and above 50° C; they must not be subjected to either steam, water jets or dripping.





NOTE: for all information about the actuator, refer to MVB data sheets (DBL005e/DIM001e).

OPERATION

When stem is up, the direct way is closed, with stem down direct way is open.

ACCESSORIES

| GVB3 | Thermal insulation for DN 3/4" valves (V.BPM3) |
|------|--|
| GVB4 | Thermal insulation for DN 1" valves (V.BPM4) |
| GVB5 | Thermal insulation for DN 1 1/4" valves (V.BPM5) |
| GVB6 | Thermal insulation for DN 1 ½" valves (V.BPM6) |
| GVB8 | Thermal insulation for DN 2" valves (V.BPM8) |

| CAST IRON FITTINGS 3 PIECES | | | | | | | |
|-----------------------------|---------|----------|-----------|--|--|--|--|
| THR | EAD | FITTING | SEAL CODE | | | | |
| Α | В | CODE | SEAL CODE | | | | |
| G3/4" F | G3/4" M | 89948-02 | 89949-02 | | | | |
| G1" F | G1" M | 89948-03 | 89949-03 | | | | |
| G1 ¼" F | G1 ¼" M | 89948-04 | 89949-04 | | | | |
| G1 ½" F | G1 ½" M | 89948-05 | 89949-05 | | | | |
| G2" F | G2" M | 89948-06 | 89949-06 | | | | |



Page 1

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ACTUATOR CHARACTERISTICS

 $\ensuremath{\mathsf{VSBPM/VMBPM}}$ valves are motorized by CONTROLLI electric actuators $\ensuremath{\mathsf{MVB}}.$

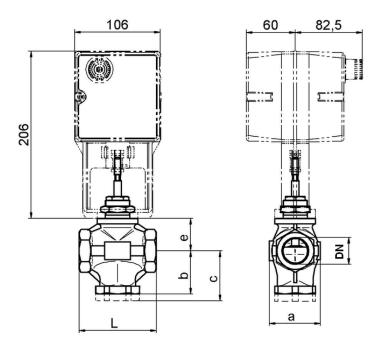
| DN | Δp max [kPa] | Close-off [kPa] |
|--------|--------------|-----------------|
| 3/4" | | 880 |
| 1" | | 550 |
| 1 1/4" | 200 | 350 |
| 1 ½" | | 250 |
| 2" | | 180 |

 Δp max = max differential pressure value ensured by the actuator for regular operation.

ATTENTION: we recommend not to exceed the differential pressure of 2 bar, in order to avoid wear.

NOTE: three-way valves must always be mounted as mixing (in case they are required as diverting valves, the flow speed must not be above 2 m/s).

DIMENSIONS [mm]



| DN | е | b (2 way) | c (3 way) | L | а |
|--------|------|--------------|--------------|-----|----|
| 3/4" | 34,5 | 52 | 69 | 85 | 54 |
| 1" | 40 | 53 | 73 | 95 | 63 |
| 1 1/4" | 43,5 | 53 | 73 | 108 | 70 |
| 1 ½" | 51 | 56,5 | 75 | 120 | 81 |
| 2" | 54,5 | 62,5 | 83 | 142 | 97 |

The performances stated in this sheet can be modified without any prior notice

