

# BV500

Max. operating temperature: 250°C

Operating pressure: 16 bar g

## Installation

The BV500 steam trap must be fitted with the float arm in a horizontal plane so that the float will rise and fall vertically within the trap body. Nominal sizes DN 15, DN 20 and DN 25 can be installed both in horizontal and vertical pipes by turning the cover 90°.

## Specifications

Sizes: DN 15, DN 20, DN 25, DN 40 and DN 50

End connections: Flanged DIN PN 16 / Thread end BSPP

Maximum Allowable Pressure: 25 bar

Maximum Allowable Temperature: 300°C

Maximum Operating Pressure: 16 bar

Maximum Differential Pressure: 4,5 bar, 10 bar, 14 bar

Maximum Operating Temperature: 250°C

## Materials:

Body & Cover: Ductile iron GGG 40.3

Thermostatic Capsule: Stainless steel

Air Vent Seat / Float Seat: Stainless steel 304

Main Valve (Ball): Stainless steel 304

Float & Float Lever: Stainless steel 304

## Discharge capacities

| Differential Pressure<br>Barg | $\Delta P_{4,5}$ (A) |      |        |       | $\Delta P_{10}$ (B) |     |        |       | $\Delta P_{14}$ (C) |     |        |      |
|-------------------------------|----------------------|------|--------|-------|---------------------|-----|--------|-------|---------------------|-----|--------|------|
|                               | 1/2"-3/4"            | 1"   | 1-1/2" | 2"    | 1/2"-3/4"           | 1"  | 1-1/2" | 2"    | 1/2"-3/4"           | 1"  | 1-1/2" | 2"   |
| 0.1                           | 115                  | 365  | 1100   | 3500  | 55                  | 187 | 660    | 1800  | 38                  | 68  | 450    | 850  |
| 0.2                           | 160                  | 425  | 1450   | 4800  | 75                  | 211 | 925    | 1600  | 52                  | 90  | 625    | 1250 |
| 0.3                           | 180                  | 491  | 1800   | 6000  | 89                  | 249 | 1150   | 3100  | 62                  | 101 | 750    | 1450 |
| 0.4                           | 190                  | 523  | 2150   | 6950  | 100                 | 280 | 1300   | 3500  | 70                  | 133 | 850    | 1700 |
| 0.6                           | 225                  | 601  | 2650   | 8500  | 125                 | 314 | 1625   | 4250  | 82                  | 145 | 1050   | 2150 |
| 0.8                           | 260                  | 689  | 2950   | 9600  | 140                 | 359 | 1825   | 4800  | 93                  | 159 | 1200   | 2500 |
| 1                             | 275                  | 721  | 3250   | 12500 | 160                 | 391 | 2125   | 5400  | 100                 | 172 | 1300   | 2750 |
| 2                             | 360                  | 901  | 4500   | 15000 | 200                 | 483 | 3000   | 7500  | 135                 | 224 | 1800   | 3600 |
| 3                             | 425                  | 1003 | 5500   | 17500 | 240                 | 552 | 3600   | 9200  | 170                 | 272 | 2250   | 4500 |
| 4.5                           | 500                  | 1225 | 6700   | 22500 | 280                 | 608 | 4400   | 11250 | 190                 | 316 | 2750   | 5500 |
| 5                             |                      |      |        |       | 300                 | 653 | 4600   | 11850 | 200                 | 323 | 2900   | 5850 |
| 6                             |                      |      |        |       | 320                 | 699 | 5100   | 13100 | 220                 | 349 | 3200   | 6400 |
| 8                             |                      |      |        |       | 360                 | 749 | 6000   | 15000 | 250                 | 401 | 3600   | 7500 |
| 10                            |                      |      |        |       | 400                 | 801 | 6700   | 16300 | 270                 | 451 | 4000   | 8400 |
| 14                            |                      |      |        |       |                     |     |        |       | 310                 | 503 | 4700   | 9500 |

Notes: 1. Discharge capacities in Kg/h with outlet pressure 0 bar.

