

Bleeding and venting valves

Bleeding and venting valves EB 6.54

Valve for highest flow rates



Technical Data

| | |
|---------------------|--------------------------|
| Connection DN | 25 - 300 |
| Nominal pressure PN | 6 - 40 |
| Operating pressure | 0,3 - 40 bar |
| Flow rate | 18550 Nm ³ /h |
| Temperature | 130 °C |
| Medium | liquids |

Description

Bleeding and venting valves remove air or gases from systems or pipelines without requiring an external energy input. When a system is drained they act as venting valves; venting may be prevented by fitting a non-return valve.

EB 6.54 is a float-controlled combined start-up and continuous bleeding and venting valve consisting of a main valve for start-up bleed and a continuous bleeding and venting valve built-on laterally. The valve cone is provided with a soft seal, and the minimum pressure for the valve seal is to be 0.3 bar.

Owing to the large seat diameter, large air volumes are discharged at low pressures. The main valve closes as soon as having been filled with liquid. With additional small air quantities accruing during continuous operation, the continuous bleeding and venting valve opens and discharges the accruing air. The main valve only opens with falling level and simultaneous pressure relief. If a vacuum arises the valve will open immediately.

Depending on the version the start-up bleeding valves EB 3.50 (PN 6-40) or EB 3.52 (PN 16) can be employed as main valve and for continuous bleeding and venting the types EB 1.12 or EB 1.32 with a nominal width of G 3/4 x 1/2 can be used. Details concerning materials and dimensions can be found on the corresponding data sheets.

Standard

- » EB 3.52 up to DN 100 completely made of stainless steel

Options

- » Various seal materials suitable for your medium
- » Plastic coating for corrosive fluids
- » Non-return valve to prevent venting
- » Special connections: Aseptic, ANSI or DIN flanges, welding spigots; other connections on request
- » Special versions on request

Customs Tariff Number

84818059

Operating instructions, know how and safety instructions must be observed. The pressure has always been indicated as overpressure. We reserve the right to alter technical specifications without notice.



Air Flow Rate for Start-up Bleeding [Nm³/h] with EB 3.52 basis

| Δp bar | nominal diameter DN | | | | | | |
|--------|---------------------|-----|-----|-----|-----|------|------|
| | 25 | 32 | 40 | 50 | 65 | 80 | 100 |
| 0.05 | 52 | 90 | 125 | 217 | 378 | 543 | 790 |
| 0.1 | 73 | 126 | 177 | 307 | 534 | 767 | 1117 |
| 0.2 | 104 | 178 | 250 | 435 | 755 | 1085 | 1580 |
| 0.3 | 127 | 219 | 306 | 532 | 925 | 1330 | 1935 |

Air Flow Rate for Start-up Bleeding [Nm³/h] with EB 3.50 basis

| Δp bar | nominal diameter DN | | | | | |
|--------|---------------------|------|------|------|-------|-------|
| | 100 | 125 | 150 | 200 | 250 | 300 |
| 0.05 | 971 | 1604 | 2236 | 3948 | 5783 | 7572 |
| 0.1 | 1374 | 2268 | 3162 | 5583 | 8178 | 10708 |
| 0.2 | 1940 | 3210 | 4470 | 7900 | 11570 | 15150 |
| 0.3 | 2380 | 3930 | 5480 | 9670 | 14165 | 18550 |

Air Flow Rate for Continuous Bleeding [Nm³/h]

| Δp bar | Pressure Range bar * | | |
|--------|----------------------|-------|--------|
| | 0 - 2 | 0 - 6 | 0 - 16 |
| 0.5 | 6.8 | 2.2 | 0.6 |
| 1 | 8.6 | 2.8 | 0.7 |
| 2 | 12 | 4.2 | 1 |
| 4 | | 7 | 1.7 |
| 6 | | 9.8 | 2.4 |
| 8 | | | 3.1 |
| 10 | | | 3.8 |
| 12 | | | 4.5 |
| 16 | | | 5.9 |
| > 16 | on request | | |

Air Flow Rate for Venting [Nm³/h] with EB 3.52 Basis

| Δp bar | nominal diameter DN | | | | | | |
|--------|---------------------|-----|-----|-----|-----|------|------|
| | 25 | 32 | 40 | 50 | 65 | 80 | 100 |
| 0.1 | 69 | 120 | 167 | 291 | 507 | 728 | 1060 |
| 0.2 | 93 | 160 | 223 | 390 | 675 | 970 | 1410 |
| 0.3 | 106 | 183 | 255 | 445 | 775 | 1110 | 1620 |
| 0.4 | 114 | 195 | 275 | 475 | 825 | 1185 | 1730 |

Air Flow Rate for Venting [Nm³/h] with EB 3.50 basis

| Δp bar | nominal diameter DN | | | | | |
|--------|---------------------|------|------|------|-------|-------|
| | 100 | 125 | 150 | 200 | 250 | 300 |
| 0.1 | 1300 | 2150 | 3000 | 5300 | 7760 | 10160 |
| 0.2 | 1740 | 2870 | 4000 | 7060 | 10345 | 13545 |
| 0.3 | 1990 | 3290 | 4580 | 8090 | 11850 | 15520 |
| 0.4 | 2130 | 3515 | 4900 | 8650 | 12670 | 16590 |

Authorised Distributor:



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