# Bleeding and Venting Valves

## Startup Bleeding and Venting Valves EB 3.52

Universal Valve



### Technical Data

| | |
|---|---|
| Connection DN | 25 - 100 |
| Nominal Pressure PN | 16 |
| Operating Pressure | 0 - 13 bar |
| Flow Rate | 1935 $Nm^3/h$ |
| Temperature | 130 °C |
| Medium | liquids |

### Description

Start-up bleed valves remove air or gases from systems or pipelines during the filling process without requiring an external energy input. When a system is drained they act as venting valves; venting may be prevented by fitting a commercial check valve to the outlet.

Thanks to the large cross-sectional area of the seat these valves are capable of handling large air volumes at low pressures. They close as soon as the system is filled with fluid. When the liquid level drops these valves will only open if the system is depressurised; they will not open under working pressure.

EB 3.52 is a float-controlled start-up bleed valve manufactured completely from deep-drawn stainless steel components featuring excellent corrosion resistance. The float is precisely guided in the outlet spigot. The valve cone is fitted with a soft seal. The minimum pressure required for valve sealing is 0.3 bar.

Top and bottom sections of the valve body are connected by a clamp ring and two bolts. Servicing/maintenance is easy and does not call for special tooling.

### Standard

» all stainless steel construction
» quick-release body clamp ring

### Options

» working pressure up to 16 bar
» 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

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

**Start-up Bleeding Air Flow Rate [$Nm^3/h$] at 0 °C, 1013 mbar**

| 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 |

**Venting Air Flow Rate [$Nm^3/h$] at 0 °C, 1013 mbar**

| 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 |

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| Materials | |
|---|---|
| Body | CrNiMo-steel |
| Body Seal | EPDM |
| Internals | CrNiMo-steel |
| Float | CrNiMo-steel |
| Valve Seal | EPDM |
| Profile Clamp | CrNiMo-steel |

| Dimensions [mm] | | | | | | | |
|---|---|---|---|---|---|---|---|
| size | nominal diameter DN | | | | | | |
| | 25 | 32 | 40 | 50 | 65 | 80 | 100 |
| A | 247 | 255 | 257 | 261 | 430 | 440 | 440 |
| D | 200 | 200 | 200 | 200 | 265 | 265 | 265 |
| E | 45 | 45 | 35 | 35 | - | - | - |

| Weights [kg] | | | | | | |
|---|---|---|---|---|---|---|
| nominal diameter DN | | | | | | |
| 25 | 32 | 40 | 50 | 65 | 80 | 100 |
| 4.5 | 6 | 6.5 | 8.5 | 15 | 16 | 18 |

Special designs on request.
The pressure has always been indicated as overpressure.
Mankenberg reserves the right to alter or improve the designs or specifications of the products described herein without notice.

## Dimensional Drawing