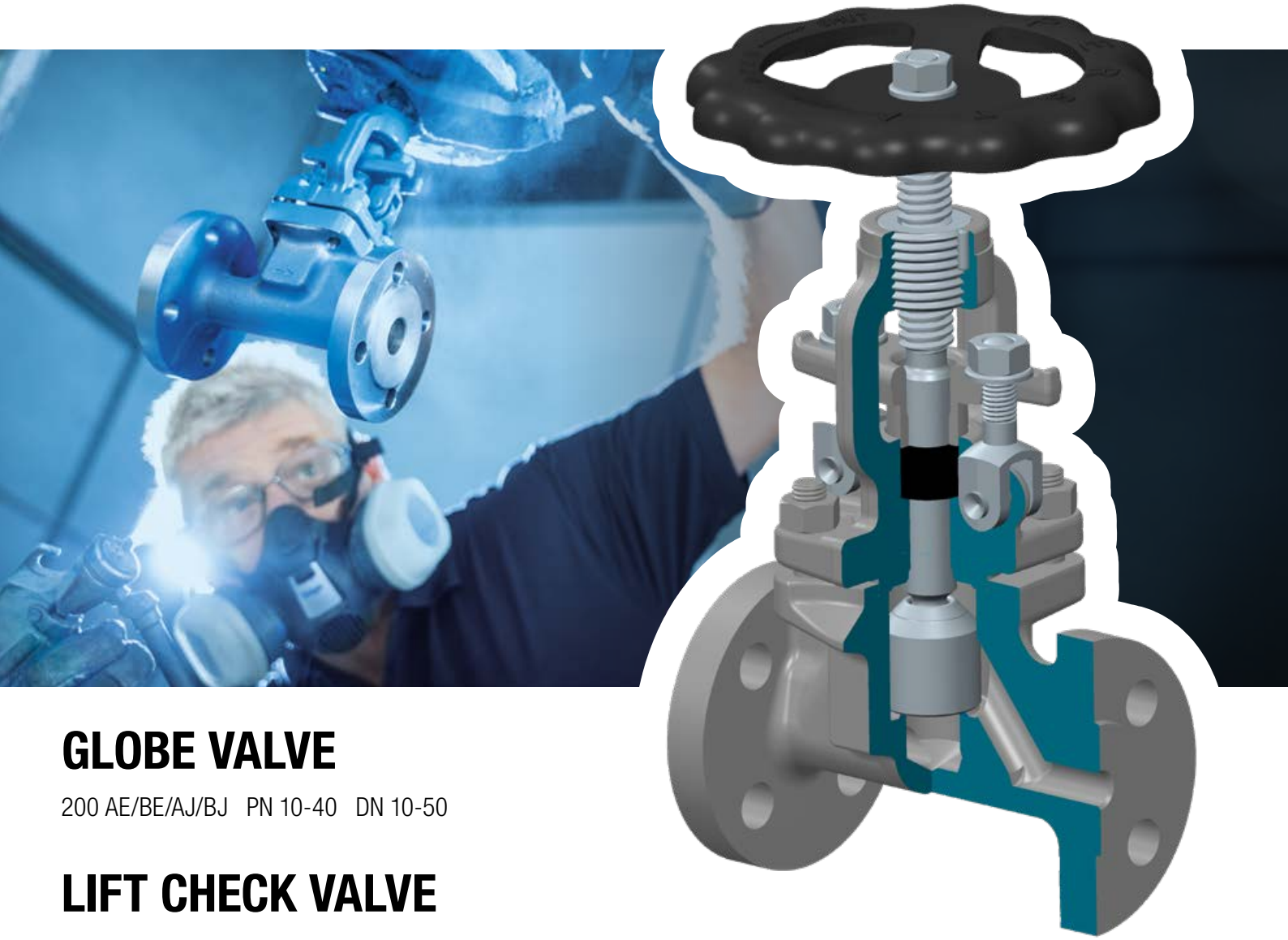


# GLOBE VALVE

200 AE/BE/AJ/BJ  PN 10-40  DN 10-50

# LIFT CHECK VALVE

240 MT  PN 10-40  DN 10-50

## Design highlights

- Forged body and bonnet
- Single-piece body
- Seat hard faced or stellited
- Body seal with male and female connection
- Bolted bonnet

## Advantages

- Homogeneous joining
- No weld seam
- Sturdy and heavy duty
- Absolute seat impermeability
- Blow-out-proof seal to improve service options, e.g. when regrinding the seat.



Subject to technical modifications

**GLOBE VALVE** 200 AE/BE/AJ/BJ PN 10-40 DN 10-50

**LIFT CHECK VALVE** 240 MT PN 10-40 DN 10-50

## Version

- Flow passage with straight top part
- Forged body and bonnet
- Shut-off disc, AE version
- Throttle disc, BE version
- Shut-off disc with yoke sleeve, AJ version
- Throttle disc with yoke sleeve, BJ version
- External stem thread
- Position indicator on request
- Rotating, rising stem (AE/BE)
- Non-rotating, rising stem (AJ/BJ)
- Available in angular form 202 AE/BE
- Operation in intermediate position only possible for short periods with the AE/BE versions (stroke 10–90%)

## Operating data

- Operating pressure, butt-weld ends, up to 40 bar (DIN 2401)
- Operating pressure, flange ends, up to 40 bar (DIN 2401)
- Operating temperature up to 550 °C

## Materials

- 1.0460
- 1.0571
- 1.5415 only butt-weld ends
- 1.7335
- 1.4571

Other materials available on request.

## Flow medium

Depending on the choice of materials, the valves can be used for water, steam, gas, oil or other non-aggressive media.

## Applications

In chemical, industrial and power plants, and in shipbuilding.

## Area of application

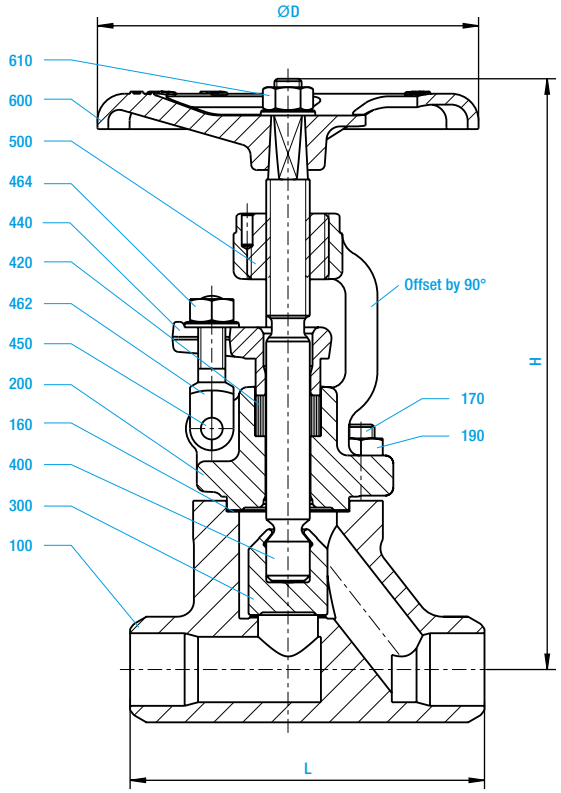
Permissible operating pressure [bar(g)] at calculation temperature [°C] [1)]

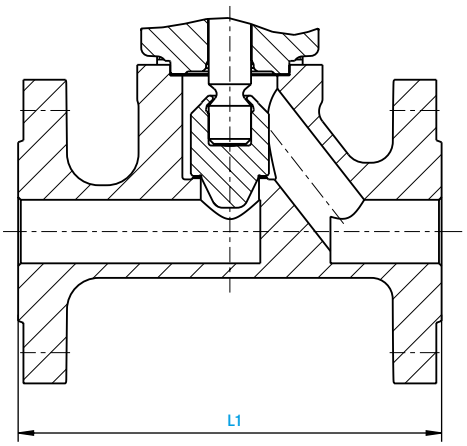
| Material | PN | -200 | -60 | -10 | 20 | 120 | 150 | 200 | 250 | 300 | 350 | 400 | 450 | 500 | 510 | 520 | 530 | 540 | 550 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **1.0460** | **40** | | | 40 | 40 | 40 | 37 | 35 | 32 | 28 | 24 | 21 | 10 | | | | | | |
| **1.5415** [5)] | **40** | | | 40 | 40 | 40 | 40 | 40 | 40 | 35 | 31 | 30 | 28 | 18 | 14 | 11 | 9 | | |
| **1.7335** | **40** | | | 40 | 40 | 40 | 40 | 40 | 40 | 40 | 38 | 36 | 34 | 29 | 24 | 19 | 15 | 12 | 9 |
| **1.4571** | **40** [2)3)4)] | 40 | 40 | 40 | 40 | 40 | 40 | 40 | 40 | 38 | 36 | 34 | 32 | 32 | 31 | 31 | 31 | 31 | 31 |
| **1.0571** | **40** [4)] | | 40 | 40 | 40 | 40 | 37 | 35 | 32 | 28 | | | | | | | | | |

1) Operating temperature = calculation temperature minus temperature surcharge according to the standard codes.
2) Operating > 400 °C operating temperature only permissible if no intergranular corrosion is expected.
3) From > 400 °C operating temperature: bolt material 1.4986.
4) For A4-70 bolts with > 8 x d bolt length, the strength values as per Table 6 of DIN 267 Part 11 were taken into account.
5) Only with butt-weld ends.

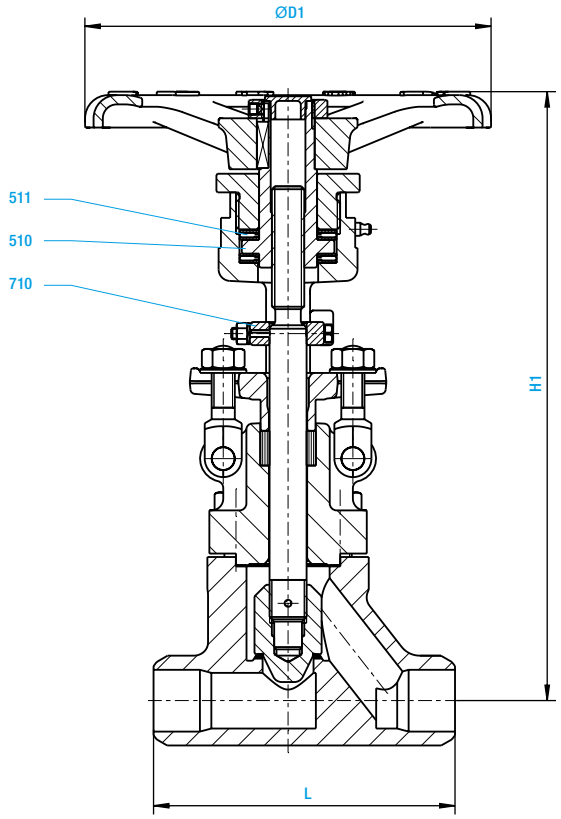
| | | | |
|---|---|---|---|
| **GLOBE VALVE** | 200 AE/BE/AJ/BJ | PN 10-40 | DN 10-50 |
| **LIFT CHECK VALVE** | 240 MT | PN 10-40 | DN 10-50 |

## 200 AE / BE

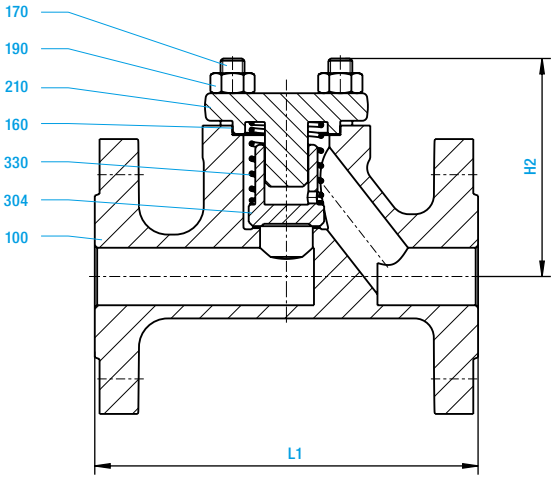



## 200 AJ / BJ




## 240 MT






Subject to technical modifications

# GLOBE VALVE 200 AE/BE/AJ/BJ PN 10-40 DN 10-50

# LIFT CHECK VALVE 240 MT PN 10-40 DN 10-50

## Materials

| Item | Designation | 1.0460 (21) | 1.0571(26) | 1.5415 (42) [4] | 1.7335 (44) | 1.4571 (82) | 1.4571 (87) |
|---|---|---|---|---|---|---|---|
| 100 | Body | 1.0460 [2] | 1.0571 [2] | 1.5415 [3] | 1.7335 [3] | 1.4571 | 1.4571 |
| 160 | Gasket | Graphite | Graphite | Graphite | Graphite | PTFE | Graphite |
| 170 | Bolt | 1.1181 | A4-70 | 1.7709 | 1.7709 | A4-70 | A4-70 |
| 190 | Hexagonal nut | 1.1181 | A4-70 | 1.7218 | 1.7218 | A4-70 | A4-70 |
| 200 | Bonnet | 1.0460 | 1.0571 | 1.7335 | 1.7335 | 1.4571 | 1.4571 |
| 210 | Check valve cover | 1.0460 | 1.0571 | 1.7335 | 1.7335 | 1.4571 | 1.4571 |
| 300 | Disc | 1.4021 [1] | 1.0571 [2] | 1.7335 [3] | 1.7335 [3] | 1.4571 | 1.4571 |
| 304 | Check valve disc | 1.4021 [1] | 1.4571 | 1.4571 | 1.4571 | 1.4571 | 1.4571 |
| 330 | Spring | 1.4310 | 1.4310 | 1.4310 | 1.4310 | 1.4571 | 1.4571 |
| 400 | Stem | 1.4021 | 1.4571 | 1.4021 | 1.4021 | 1.4571 | 1.4571 |
| 420 | Packing | Graphite | Graphite | Graphite | Graphite | PTFE | Graphite |
| 440 | Gland | 1.0460 | 1.4571 | 1.0460 | 1.0460 | 1.4571 | 1.4571 |
| 450 | Rivet pin | 1.1181 | A4-50 | 1.1181 | 1.1181 | A4-50 | A4-50 |
| 462 | Glant bolt | 1.1181 | 1.4571 | 1.1181 | 1.1181 | 1.4571 | 1.4571 |
| 464 | Hexagonal nut | 1.1181 | A4-70 | 1.1181 | 1.1181 | A4-70 | A4-70 |
| 500 | Stem nut | 1.0718 | 1.0718 | 1.0718 | 1.0718 | 1.0718 | 1.0718 |
| 510 | Yoke sleeve | 1.0718 | 1.0718 | 1.0718 | 1.0718 | 1.0718 | 1.0718 |
| 511 | Needle bearing | WLSt | WLSt | WLSt | WLSt | WLSt | WLSt |
| 600 | Handwheel | 5.3106 | 5.3106 | 5.3106 | 5.3106 | 5.3106 | 5.3106 |
| 610 | Hexagonal nut | 1.1181 | 1.1181 | 1.1181 | 1.1181 | A4-70 | A4-70 |
| 710 | Anti-twist device | 5.3106 | 5.3106 | 5.3106 | 5.3106 | 5.3106 | 5.3106 |

*Spare parts*

Special materials available on request; subject to modifications.
**Attention: Butt-weld end valves also available in 15Mo3**

1) Hard faced
2) Seat armoured with Cr17
3) Seat armoured with Stellite
4) Only butt-weld ends

## Dimensions/mm

| PN | DN | Flange L1 | Butt-weld ends L | H | H1 | H2 | Stroke length | ØD | ØD1 |
|---|---|---|---|---|---|---|---|---|---|
| 10-40 | 10 | 130 | 130 | 220 | 265 | 90 | 12 | 140 | 180 |
| | 15 | 130 | 130 | 220 | 265 | 90 | 12 | 140 | 180 |
| | 20 | 150 | 130 | 220 | 265 | 90 | 12 | 140 | 180 |
| | 25 | 160 | 130 | 220 | 265 | 90 | 12 | 140 | 180 |
| | 32 | 180 | 160 | 245 | 330 | 130 | 15 | 180 | 180 |
| | 40 | 200 | 180 | 245 | 330 | 130 | 15 | 180 | 180 |
| | 50 | 230 | 210 | 285 | 338 | 140 | 18 | 225 | 210 |

## Weights/kg

| PN | DN | 200 AE/BE Flange | 200 AE/BE Butt-weld ends | 240 MT Flange | 240 MT Butt-weld ends |
|---|---|---|---|---|---|
| 10-40 | 10 | 5.0 | 4.1 | 3.4 | 2.5 |
| | 15 | 5.1 | 4.1 | 3.5 | 2.5 |
| | 20 | 5.7 | 4.1 | 4.1 | 2.5 |
| | 25 | 6.3 | 4.1 | 4.8 | 2.3 |
| | 32 | 10.0 | 7.6 | 7.9 | 5.3 |
| | 40 | 11.7 | 7.6 | 9.5 | 5.3 |
| | 50 | 15.8 | 11.4 | 12.3 | 8.3 |

The valves are available in angular form 202 AE/BE. Version similar to page 36.

## Kvs value $m^3/h$ *

| Series | DN10 | DN15 | DN20 | DN25 | DN32 | DN40 | DN50 |
|---|---|---|---|---|---|---|---|
| 200 AE (BW) | 3 | 4.5 | 6.2 | 8.6 | 16 | 21 | 30 |
| 200 AE (FL) | 1.8 | 3 | 5.3 | 8.6 | 13 | 21 | 37.5 |
| 200 BE (BW) | 2.8 | 4.2 | 5.9 | 7.6 | 14.5 | 19.5 | 26.9 |
| 200 BE (FL) | 1.5 | 2.8 | 4.9 | 7.6 | 11.2 | 19.5 | 34.5 |
| 200 AJ (BW) | 3 | 4.5 | 6.2 | 8.6 | 16 | 21 | 30 |
| 200 AJ (FL) | 1.8 | 3 | 5.3 | 8.6 | 13 | 21 | 37.2 |
| 200 BJ (BW) | 2.8 | 4.2 | 5.9 | 7.6 | 14.5 | 19.5 | 26.9 |
| 200 BJ (FL) | 1.5 | 2.8 | 4.9 | 7.6 | 11.2 | 19.5 | 34.5 |
| 240 MT (BW) | 2.7 | 4.1 | 5.7 | 7.9 | 14.6 | 19.2 | 34 |
| 240 MT (FL) | 1.7 | 2.7 | 5.7 | 7.9 | 11.9 | 19.2 | 25.8 |

* Deviations are possible due to changed connection dimensions.