Ensuring the safety of the entire pipeline system requires the valves for oil and gas applications to be able to meet the most challenging demands.

The design is optimised for each specific field of application and complies with the latest standards and regulations. BÖHMER-Ball Valves are a guarantee for long lasting reliability.

Renowned oil and gas companies trust in our quality.
EXPERIENCE, EXPERTISE, PERFORMANCE. WE ARE BÖHMER!

We have been a reliable ball valve manufacturer since 1956. More than 300 highly qualified employees and modern machinery are the components of our success.

The structure of our plant and equipment, as well as our production, which is based on the most modern economic and ecological requirements, guarantee our customers maximum performance, quality and cost-effectiveness.

Decades of research and development enable us to manufacture a wide variety of ball valves for diverse applications. Thanks to our modular design system, we can always react flexibly to market needs. Needless to say, we offer special designs for individual customer requirements.
Today we are proud to have facilities located on 23,000 m² of production and administration floor-space in our main factory and 13,500 m² in our branch factory in Hattingen.

Furthermore we are present outside of Europe with two production facilities. In China we produce split body ball valves for the local market. Our plant in Kazakhstan is delivering district heating ball valves to regional customers.

Our large warehousing capacity enables us to meet even short-term deadlines. On-time deliveries are standard for us.

Our regular customers are demanding and therefore appreciate our first-class service. They have relied on the quality and reliability of BÖHMER ball valves for decades. We are proud to be recognized as one of the leading valve manufacturers.
THE BÖHMER
PRODUCT LINE

Our ball valves set standards because our products are designed for the most demanding conditions. The various applications for which our ball valves were designed require maximum durability and performance.

Generally our ball valves can be used wherever gases, liquids and solids are transported. It goes without saying that our ball valves fulfill all requirements for certification and procedure approvals.

We can transport all media without difficulty up to the nominal size DN1400 / 56", even with pressures of up to 500 bar.

The standards that our ball valves now fulfill are the highest on the market. But we go a step further. Our team of highly qualified engineers and designers takes special care to further develop our ball valves with maximum quality of design and material as well as cost-effectiveness.
OIL; GAS AND PRODUCT PIPELINES
COMPRESSOR; MEASURING AND REDUCTION STATIONS
GAS STORAGE
PLANTS AND VESSELS FOR THE OIL; GAS AND PETROCHEMICAL INDUSTRY
LIQUID GAS
ON- AND OFFSHORE PLATFORMS
SHIPBUILDING
POWER STATIONS
DISTRICT HEATING / STEAM
SCRAPER LAUNCH AND RECEIVING STATIONS
SPECIAL APPLICATIONS / TAILOR MADE

Certifications

| DIN EN ISO 9001 | API 6D/API 6DSS |
| DIN-DVGW        | EN 13774        |
| EAC             | EN 14141        |
| TA-Luft         | ATEX 94/9/EG    |
| BS 5351         | Fire Safe       |
| PED 97/23/EC    | BAM (structural component approvals) |
| Type approvals  | Safety Shutoff Units (SAE) |
| (VdTÜV)         | acc. to EN 14382 |

and others
Böhmer ball valves with two- or three pieces split body fulfil the requirements of the most common national and international standards.

BASIC DESIGN FEATURES

Seat Seal System
The Böhmer ball valves provide spring supported seats as a standard. The seats are pressed against the ball surface by the spring elements and ensure a tight shut-off at low line pressure. In addition the sealing effect is assisted by the pressure in line. So the total sealing force is the sum of the spring force and the force resulting from the pressure which increases proportionally with the line pressure. Depending on applications and customer requirements the below mentioned sealing systems can be delivered:
- soft seated
- primary metal seated / secondary soft seated
- metal to metal seated

Stem Sealing
The sealing of the stem to the atmosphere is achieved by three independent sealing systems. The stem sealing design ensures the anti-blow-out function, too. Therefore, the three stem sealings are easily replaceable under full line pressure in open or closed position.

Trunnion Mounted Ball
The standard design of Böhmer ball valves provides a trunnion mounted ball for the nominal sizes 3 inch and higher. The maintenance-free bearings for stem and trunnion are self-lubricating, thus ensuring a lower torque especially for high pressure ratings.

Anti-Static Device
The ball valve design includes an electric conductive connection between the internal parts of the ball valve and the body, providing the anti-static function.

Fire Protection
The design ensures the fire safe requirements in accordance with the international standards as API 6FA, API 607, BS 6755 P 2 and ISO 10497.

Emergency Sealing
As an option, Böhmer ball valves can be delivered with an additional emergency sealant injection for the seat-rings and stem sealing.
Single-Piston-Effect (Self-relieving Seat Design)
This seat system is designed to automatically vent any excessive build-up pressure in the body cavity. The floating seat design allows for relieving the overpressure into the pipeline.

Double Block and Bleed
The cavity can be relieved via vent or drain connections at the cavity. The upstream and downstream seat rings ensure the tight shut off to the cavity in closed position (optional in open position as well). This enables the verification of the tightness of the ball valve under full working pressure.

Double-Piston-Effect (Bi-directional Seating System)
With this design the seat rings tighten independently of the actual pressure relations. A redundant sealing system is created. Self relieving of the cavity does not happen in closed position (optional in open position as well).

---

1. Body
2. Body closure
3. Ball
4. Stem
5. Bearing retainer
6. Seals
7. Self lubricating bearings
8. Anti blow-out device of the stem
9. Top mounting flange for gearboxes or actuators
10. Bolts and nuts
Ball Valve with Flange or Weld Ends

DN 25 - 350, ANSI Class 150 | PN 16*

<table>
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<th>Face to face dimensions</th>
<th>Weight</th>
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<tr>
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Standard Materials:

- **Body:** ASTM A350 LF2; TSTE 355/P355 NL1; ASTM A105; P250 GH; ASTM A216 WCB/GS C25
- **Ball:** ASTM A350 LF2; ENP or hard chrome; stainless steel on request
- **Seat Rings:** ASTM A350 LF2; ENP or hard chrome; stainless steel on request
- **O-Rings:** FPM; EPDM; NBR; HNBR
- **Seat Insert:** Polyamide; FPM; PTFE; PTFE-filled; HNBR

For deviating operating conditions please send us a written request stating the fluids, as well as the pressure and temperature range.

The materials which are mentioned in the table are the Böhmer standard materials. They comply with the most common national and international standards.

Other materials, which may be necessary due to special applications / conditions (such as corrosion / abrasion as well as temperature etc.) or customers’ demands are deliverable on request.

* DIN face-to-face dimensions are deliverable as well.
Ball Valve with Flange or Weld Ends

**DN 400 - 900, ANSI Class 150 | PN 16**

**Standard Materials:**

**Body:**  
ASTM A350 LF2; TSTE 355/P355 NL1;  
ASTM A105; P250 GH

**Ball:**  
ASTM A350 LF2; ASTM A105; ASTM A182  
ENP or hard chrome; stainless steel on request

**Seat Rings:**  
ASTM A350 LF2; ASTM A105; ASTM A182  
ENP or hard chrome; stainless steel on request

**O-Rings:**  
FPM; EPDM; NBR; HNBR

**Seat Insert:**  
Polyamide; FPM; PTFE; HNBR

<table>
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<th>Nominal size</th>
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<th>Face to face dimensions</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
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</table>

Larger diameters are available on request.

* DIN face-to-face dimensions are deliverable as well.
Ball Valve with Flange or Weld Ends

DN 25 - 350, ANSI Class 300 | PN 25/40*

Standard Materials:

**Body:**  
ASTM A350 LF2; TSTE 355/P355 NL1;  
ASTM A105; P250 GH; ASTM A216 WCB/GS C25

**Ball:**  
ASTM A350 LF2; ENP or hard chrome; stainless steel on request

**Seat Rings:**  
ASTM A350 LF2; ENP or hard chrome; stainless steel on request

**O-Rings:**  
FPM; EPDM; NBR; HNBR

**Seat Insert:**  
Polyamide; FPM; PTFE; PTFE-filled; HNBR

For deviating operating conditions please send us a written request stating the fluids, as well as the pressure and temperature range.

The materials which are mentioned in the table are the Böhmer standard materials. They comply with the most common national and international standards.

Other materials, which may be necessary due to special applications / conditions (such as corrosion / abrasion as well as temperature etc.) or customers’ demands are deliverable on request.

<table>
<thead>
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<th>Weight</th>
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<td>762</td>
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* DIN face-to-face dimensions are deliverable as well.

The information given is subject to change and potential clerical errors.
**Ball Valve with Flange or Weld Ends**

**DN 400 - 900, ANSI Class 300 | PN 25/40**

**Standard Materials:**
- **Body:** ASTM A350 LF2; TSTE 355/P355 NL1; ASTM A105; P250 GH
- **Ball:** ASTM A350 LF2; ASTM A105; ASTM A182 ENP or hard chrome; stainless steel on request
- **Seat Rings:** ASTM A350 LF2; ASTM A105; ASTM A182 ENP or hard chrome; stainless steel on request
- **O-Rings:** FPM; EPDM; NBR; HNBR
- **Seat Insert:** Polyamide; FPM; PTFE; HNBR

**Nominal size** | **Diameter** | **Face to face dimensions** | **Weight**
---|---|---|---
mm | inch | L(RF) | L(RTI) | L(PN*) | L(WE) | H1 | H2 | Flange | Weld Ends | kg | kg
400 | 16 | 387 | 838 | 854 | 950 | 900 | 428 | 395 | 1500 | 1250 | 450 | 18 | 438 | 914 | 930 | 1050 | 950 | 440 | 480 | 2300 | 1850 | 500 | 20 | 489 | 991 | 1010 | 1150 | 1000 | 498 | 522 | 2700 | 2200 | 550 | 22 | 540 | 1092 | 1114 | 1225 | 1219 | 524 | 562 | 3600 | 3060 | 600 | 24 | 591 | 1163 | 1165 | 1350 | 1245 | 584 | 602 | 4800 | 4100 | 700 | 28 | 686 | 1346 | 1372 | 1550 | 1295 | 633 | 654 | 5920 | 5200 | 750 | 30 | 736 | 1397 | 1422 | - | 1346 | 673 | 682 | 7500 | 6410 | 800 | 32 | 781 | 1524 | 1553 | - | 1397 | 711 | 719 | 8330 | 7900 | 900 | 36 | 876 | 1727 | 1756 | - | 1499 | 751 | 754 | 10280 | 9470

Larger diameters are available on request.

* DIN face-to-face dimensions are deliverable as well.

---

For deviating operating conditions please send us a written request stating the fluids, as well as the pressure and temperature range.

The materials which are mentioned in the table are the Böhmer standard materials. They comply with the most common national and international standards.

Other materials, which may be necessary due to special applications / conditions (such as corrosion / abrasion as well as temperature etc.) or customers’ demands are deliverable on request.

The information given is subject to change and potential clerical errors.
Ball Valve with Flange or Weld Ends

DN 25 - 350, ANSI Class 600 | PN 100*

Standard Materials:

Body: ASTM A350 LF2; TSTE 355/P355 NL1;
ASTM A105; P250 GH; ASTM A694

Ball: ASTM A350 LF2; ASTM A694;
ENP or hard chrome; stainless steel on request

Seat Rings: ASTM A350 LF2; ENP or hard chrome;
stainless steel on request

O-Rings: FPM; EPDM; NBR; HNBR

Seat Insert: Polyamide; FPM; PTFE; PTFE-filled; HNBR

For deviating operating conditions please send us a written request stating the fluids, as well as the pressure and temperature range.

The materials which are mentioned in the table are the Böhmer standard materials. They comply with the most common national and international standards.

Other materials, which may be necessary due to special applications / conditions (such as corrosion / abrasion as well as temperature etc.) or customers’ demands are deliverable on request.

Nominal size | Diameter | Face to face dimensions | Weight
---|---|---|---
| DN | Di | L(RF) | L(RTI) | L(WE) | H1 | H2 | Flange | Weld Ends
| mm | inch | mm | mm | mm | mm | mm | kg | kg
| 25 | 1 | 25 | 216 | 216 | 216 | 145 | 95 | 10 | 6
| 50 | 2 | 51 | 292 | 295 | 292 | 155 | 105 | 30 | 20
| 80 | 3 | 78 | 356 | 359 | 356 | 195 | 130 | 65 | 45
| 100 | 4 | 102 | 432 | 435 | 432 | 230 | 164 | 125 | 85
| 150 | 6 | 152 | 559 | 562 | 559 | 251 | 189 | 280 | 200
| 200 | 8 | 203 | 660 | 663 | 660 | 311 | 245 | 500 | 380
| 250 | 10 | 254 | 787 | 791 | 787 | 325 | 290 | 750 | 540
| 300 | 12 | 305 | 838 | 841 | 838 | 378 | 343 | 1150 | 900
| 350 | 14 | 336 | 889 | 892 | 889 | 359 | 403 | 1650 | 1400

* DIN face-to-face dimensions are deliverable as well.

The information given is subject to change and potential clerical errors.
Ball Valve with Flange or Weld Ends

DN 400 - 900, ANSI Class 600 | PN 100*

Standard Materials:

**Body:**
- ASTM A350 LF2; TSTE 355/P355 NL1;
- ASTM A105; P250 GH; ASTM A694

**Ball:**
- ASTM A350 LF2; ASTM A105; ASTM A694;
- ENP or hard chrome; stainless steel on request

**Seat Rings:**
- ASTM A350 LF2; ASTM A105; ASTM A694;
- ENP or hard chrome; stainless steel on request

**O-Rings:**
- FPM; EPDM; NBR; HNBR

**Seat Insert:**
- Polyamide; FPM; PTFE; HNBR

The information given is subject to change and potential clerical errors.

---

**Nominal size**

<table>
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<tr>
<th>DN (mm)</th>
<th>Diameter (inch)</th>
<th>Face to face dimensions</th>
<th>Weight</th>
</tr>
</thead>
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<td>L(RTI) (mm)</td>
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<td>900</td>
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<td>876</td>
<td>2083</td>
</tr>
</tbody>
</table>

Larger diameters are available on request.

* DIN face-to-face dimensions are deliverable as well.
Ball Valve with Flange or Weld Ends

DN 25 - 350, ANSI Class 900 | PN 160*

Standard Materials:

Body: ASTM A350 LF2; TSTE 355/P355 NL1; ASTM A105; P250 GH

Ball: ASTM A350 LF2; ASTM A105; ASTM A182; ENP or hard chrome; stainless steel on request

Seat Rings: ASTM A350 LF2; ASTM A105; ENP or hard chrome; stainless steel on request

O-Rings: FPM; EPDM; NBR; HNBR

Seat Insert: Polyamide; FPM; PTFE; PTFE-filled; HNBR

For deviating operating conditions please send us a written request stating the fluids, as well as the pressure and temperature range.

The materials which are mentioned in the table are the Böhmer standard materials. They comply with the most common national and international standards.

Other materials, which may be necessary due to special applications / conditions (such as corrosion / abrasion as well as temperature etc.) or customers’ demands are deliverable on request.

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* DIN face-to-face dimensions are deliverable as well.
For deviating operating conditions please send us a written request stating the fluids, as well as the pressure and temperature range.

The materials which are mentioned in the table are the Böhmer standard materials. They comply with the most common national and international standards.

Other materials, which may be necessary due to special applications / conditions (such as corrosion / abrasion as well as temperature etc.) or customers’ demands are deliverable on request.

**Ball Valve with Flange or Weld Ends**

**DN 400 - 900, ANSI Class 900 | PN 160**

**Standard Materials:**

**Body:**
- ASTM A350 LF2; TSTE 355/P355 NL1;
- ASTM A105; P250 GH; ASTM A694

**Ball:**
- ASTM A350 LF2; ASTM A105; ASTM A694;
- ENP or hard chrome; stainless steel on request

**Seat Rings:**
- ASTM A350 LF2; ASTM A105; ASTM A694;
- ENP or hard chrome; stainless steel on request

**O-Rings:**
- FPM; EPDM; NBR; HNBR

**Seat Insert:**
- Polyamide; FPM; PTFE; HNBR

<table>
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<th>Face to face dimensions</th>
<th>Weight</th>
</tr>
</thead>
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</table>

Larger diameters are available on request.

* DIN face-to-face dimensions are deliverable as well.
Ball Valve with Flange or Weld Ends

DN 25 - 150, ANSI Class 1500 / PN 250

For deviating operating conditions please send us a written request stating the fluids, as well as the pressure and temperature range.

The materials which are mentioned in the table are the Böhmer standard materials. They comply with the most common national and international standards.

Other materials, which may be necessary due to special applications / conditions (such as corrosion / abrasion as well as temperature etc.) or customers’ demands are deliverable on request.

**Standard Materials:**

**Body:** ASTMA350 LF2; TSTE 355/P355 NL1; ASTM A105; P250 GH

**Ball:** ASTMA350 LF2; ASTM A182; ENP or hard chrome; stainless steel on request

**Seat Rings:** ASTM A350 LF2; ENP or hard chrome; stainless steel on request

**O-Rings:** FPM; EPDM; NBR; HNBR

**Seat Insert:** Polyamide; FPM; PTFE; PTFE-filled; HNBR

<table>
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<th>Nominal size</th>
<th>Diameter</th>
<th>Face to face dimensions</th>
<th>Weight</th>
</tr>
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<tbody>
<tr>
<td></td>
<td>DN</td>
<td>Di</td>
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<tr>
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</table>

The information given is subject to change and potential clerical errors.
Ball Valve with Flange or Weld Ends

DN 200 - 400, ANSI Class 1500 / PN 250

Standard Materials:

Body: ASTM A350 LF2; TSTE 355/P355 NL1; ASTM A105; P250 GH; ASTM A694

Ball: ASTM A350 LF2; ASTM A182; ASTM A694; ENP or hard chrome; stainless steel on request

Seat Rings: ASTM A350 LF2; ASTM A182; ASTM A694; ENP or hard chrome; stainless steel on request

O-Rings: FPM; EPDM; NBR; HNBR

Seat Insert: Polyamide; FPM; PTFE; HNBR

For deviating operating conditions please send us a written request stating the fluids, as well as the pressure and temperature range.

The materials which are mentioned in the table are the Böhmer standard materials. They comply with the most common national and international standards.

Other materials, which may be necessary due to special applications / conditions (such as corrosion / abrasion as well as temperature etc.) or customers’ demands are deliverable on request.

<table>
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<tr>
<th>Nominal size</th>
<th>Diameter</th>
<th>Face to face dimensions</th>
<th>Weight</th>
</tr>
</thead>
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<td>DN</td>
<td>Di</td>
<td>L(RF)</td>
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<td>400</td>
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Larger diameters are available on request.
ACTUATORS FOR BÖHMER BALL VALVES

Ball valves with gear units
An economical solution for actuating large ball valves.

Pneumatic, hydraulic and electric ball valve actuators
BÖHMER ball valves can be combined with actuators made by all established actuator manufacturers. We look forward to receiving your technical inquiries.

The actuating torque is defined by the range of application, the operating conditions and the design of the ball valve. Our technical engineers will be at your service in order to select the best suitable actuator for your ball valve.
## OPTIONAL EQUIPMENT

<table>
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<tr>
<th>Feature</th>
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<tbody>
<tr>
<td>Emergency sealing injection</td>
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<tr>
<td>Stem extension</td>
</tr>
<tr>
<td>Extended lines for drain, vent and emergency sealing injection</td>
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<tr>
<td>Bypass directly at the valve</td>
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<tr>
<td>Locking device</td>
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<tr>
<td>Underground installation</td>
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<tr>
<td>Other design features on request</td>
</tr>
</tbody>
</table>

Our product range includes more than 100,000 different kinds of ball valves.
BÖHMER BALL VALVES
IN OPERATION

We keep in step with time!

Thanks to our comprehensive product line, we are already able to fulfill almost every customer demand.

But we do not rest on our laurels!

In order to be able to satisfy all customers’ wishes in the future, our highly qualified engineers and designers take meticulous care to develop the next generations of ball valves. As a result, we develop innovative solutions which are successful in fields such as district heating, the gas industry, pipeline construction, hydraulics, pneumatics, plant engineering and construction, petrochemicals and subsea applications.
As one of the world’s leading manufacturers of ball valves, we are always conscious of our responsibilities to our customers.

Now and in the future, the name BÖHMER will continue to be a distinguished synonym for our comprehensive promise to perform.

BÖHMER
OUR EXPERIENCE – YOUR SAFETY
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