

Since
1964



**Your Favourite Partner
in Technology,
Quality and Service.**

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Since
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RBR
Ball Valves



Where we are

A map of Italy with a central blue dot representing Milan. Eight green lines radiate from Milan to other cities, each labeled with a code and an airplane icon: A8 to MALPENSA, A2 to TORINO, A7 to GENOVA, A1 to BOLOGNA, A4 to VENEZIA, and routes to BRESCIA, BERGAMO, and VENEZIA.

RBR headquarter is located 10 km from Central Milan in the area of the new exhibition centre of Milan (Italy), close to Malpensa International Airport, near to all the main motorway and 150-200 km from the 3 most important Italian seaports.



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Trunnion & Floating Ball Valves



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Photo Index



40T Series

Bolted Body Trunnion Mounted Ball Valves.



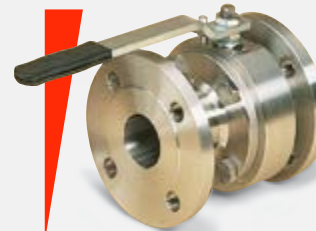
40TW Series

Welded Body Trunnion Mounted Ball Valves.



40TE Series

Top Entry Trunnion Mounted Ball Valves.



40 Series

Floating Split / One Piece Body Ball Valves.



10 Series

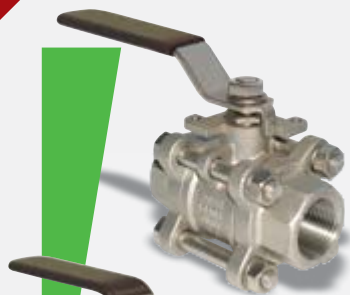
Wafer Type Ball Valves.



11 Series

Jacketed Wafer Type Ball Valves.

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24 Series

Three-Pieces Ball Valves.



70 Series

One-Piece Ball Valves.



33 Series

*Threaded Three-Way
Ball Valves.*



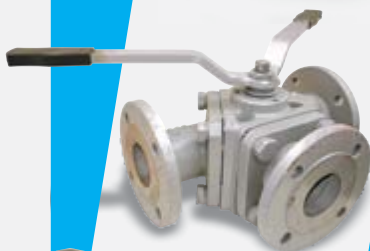
70HP Series

*One-Piece Ball Valves
High Pressure.*



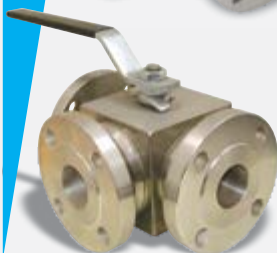
30Y Series

*Flanged Three-Way
Ball Valves 120°.*



30T Series

*Flanged Three-Way
Ball Valves 90°.*



34 Series

*Flanged Three-Way
Ball Valves 90°.*



103 Series

*Three-Way Wafer
Type Two Seats
Ball Valves 90°.*



103 Series

*Three-Way Wafer
Type Three Seats
Ball Valves 90°.*



ACTUATORS & ACCESSORIES

*Parts for Automatic
Operations.*

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Our Product Range

Trunnion Ball Valves

The full range of the RBR trunnion ball valves are designed in accordance with the API 6D/ISO 14313 Standard and verified following the PED and ATEX Standards.

The valves are constructed with forged materials in the various grades of carbon steel, stainless steels and alloys steel in compliance of the most severe conditions of service. A wide range of options, sealing materials and welding overlays are also available upon request. On request RBR ball valves can be supplied accordingly with NACE MR-01-75 Standards.



| SIZE | CLASS | | | | | |
|--------|-------|-----|-----|-----|------|------|
| | 150 | 300 | 600 | 900 | 1500 | 2500 |
| 3/4" | . | . | . | . | . | . |
| 1" | . | . | . | . | . | . |
| 1 1/2" | . | . | . | . | . | . |
| 2" | . | . | . | . | . | . |
| 3" | . | . | . | . | . | . |
| 4" | . | . | . | . | . | . |
| 6" | . | . | . | . | . | . |
| 8" | . | . | . | . | . | . |
| 10" | . | . | . | . | . | . |
| 12" | . | . | . | . | . | . |
| 14" | . | . | . | . | . | . |
| 16" | . | . | . | . | . | . |
| 18" | . | . | . | . | . | . |
| 20" | . | . | . | . | . | . |
| 22" | . | . | . | . | . | . |
| 24" | . | . | . | . | . | . |
| 26" | . | . | . | . | . | . |
| 28" | . | . | . | . | . | . |
| 30" | . | . | . | . | . | . |
| 32" | . | . | . | . | . | . |
| 34" | . | . | . | . | . | . |
| 36" | . | . | . | . | . | . |
| 38" | . | . | . | . | . | . |
| 40" | . | . | . | . | . | . |
| 42" | . | . | . | . | . | . |
| 48" | . | . | . | . | . | . |

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Our Product Range

Floating Ball Valves

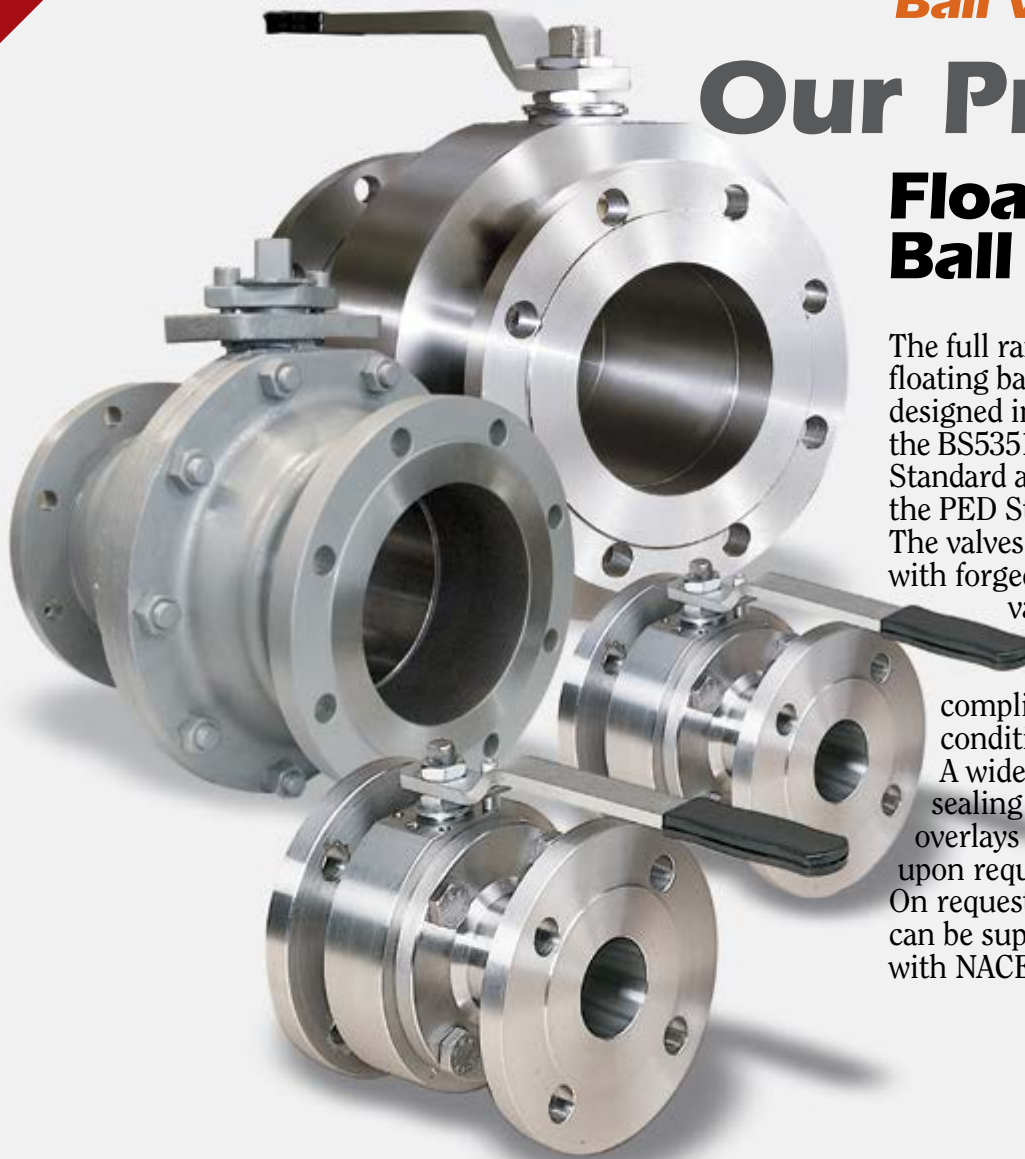
The full range of the RBR floating ball valves are designed in accordance with the BS5351, B16.10 and B16.5 Standard and verified following the PED Standards.

The valves are constructed with forged materials in the various grades of carbon steel, stainless steels and alloys in compliance of the most severe conditions of service.

A wide range of options, sealing materials and welding overlays are also available upon request.

On request RBR ball valves can be supplied accordingly with NACE MR-01-75 Standards.

| SIZE | CLASS | | | | | |
|--------|-------|-----|-----|-----|------|------|
| | 150 | 300 | 600 | 900 | 1500 | 2500 |
| 1/2" | • | • | • | • | • | • |
| 3/4" | • | • | • | • | • | • |
| 1" | • | • | • | • | • | • |
| 1 1/2" | • | • | • | • | • | • |
| 2" | • | • | • | | | |
| 3" | • | • | • | | | |
| 4" | • | • | • | | | |
| 6" | • | • | • | | | |
| 8" | • | • | | | | |
| 10" | • | • | | | | |



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Ball Valves

Our Product Range

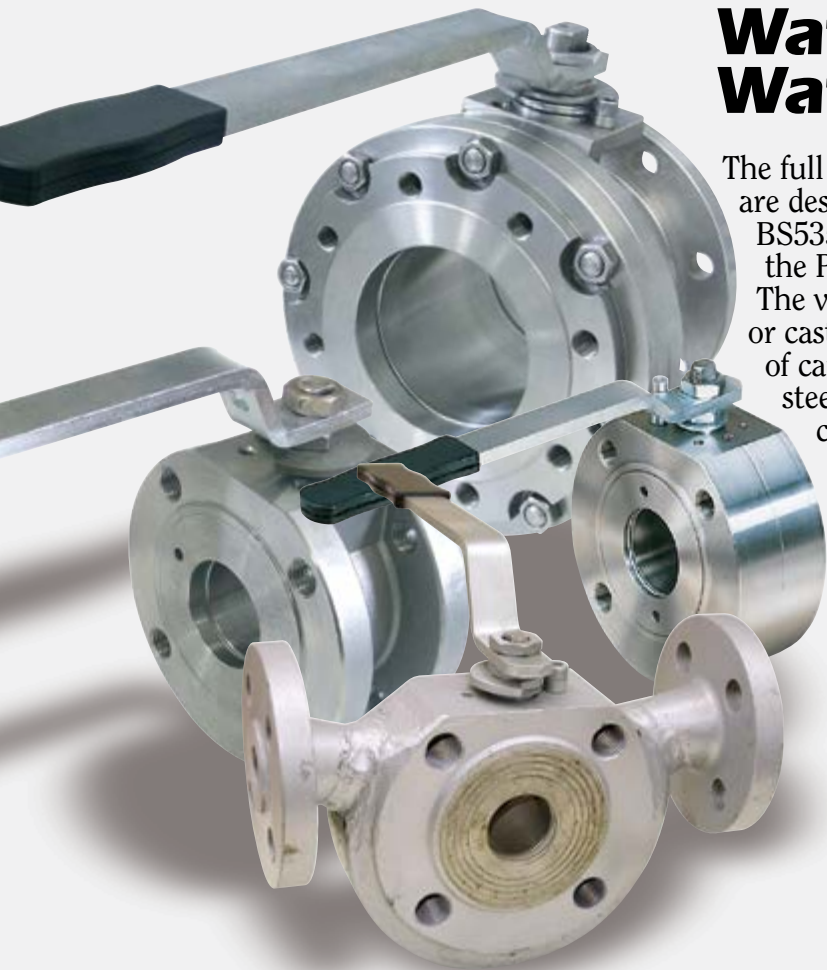
Wafer & Jacketed Wafer Type

The full range of the RBR Wafer Ball Valves are designed in accordance with the BS5351 standards and verified following the PED standards.

The valves are constructed with forged or casting materials in the various grades of carbon steel, stainless steel and alloy steel in compliance of the most severe conditions of service.

A wide range of options and sealing materials are also available upon request.

| SIZE | ANSI | | | PN | | | |
|--------|------|-----|-----|----|----|----|-----|
| | 150 | 300 | 600 | 16 | 40 | 64 | 100 |
| 1/2" | • | • | • | • | • | • | • |
| 3/4" | • | • | • | • | • | • | • |
| 1" | • | • | • | • | • | • | • |
| 1 1/4" | • | • | • | • | • | • | • |
| 1 1/2" | • | • | • | • | • | • | • |
| 2" | • | • | • | • | • | • | • |
| 2 1/2" | • | • | • | • | • | • | • |
| 3" | • | • | • | • | • | • | • |
| 4" | • | • | • | • | • | • | • |
| 5" | • | • | • | • | • | • | • |
| 6" | • | • | • | • | • | • | • |
| 8" | • | • | • | • | • | • | • |



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10 - 11 & 40 Series Automation



BOXES

A full range of boxes is available for the most different purposes:

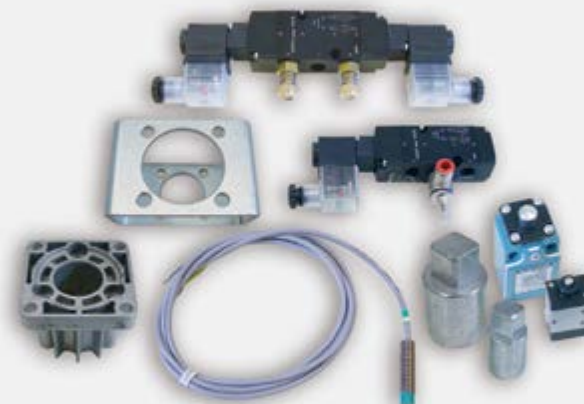
- Body and cover in die-cast aluminium heat cured polyester powder epoxy coated
- Body and cover in plastic materials
- Dome in polycarbon and tridimensional indicator in plastic material
- Interchangeable microswitches
- Standard IP65, IP66 and IP 67
- Available in anti-explosion proof version too.



STANDARD ACTUATORS

RBR Floating Ball Valves can be power assisted with a standardized range of actuators with the following characteristics:

- Operating pressure 4 to 10 bar
- Operating temperature -20°C to +90°C
- Maximum operating cycles 500.000
- Under request: Operating temperature -40°C to 160°C.



SOLENOID VALVES AND ACCESSORIES

Depending on the customer specifications the RBR Ball Valves can be supplied with different options:

- Die cast aluminium bracket
- Steel brackets
- Number one or two solenoids valves complying IP65, IP66 and IP67 standards, proximity and explosion-proof (ATEX Eexia Eex-d)
- Microswitches complying IP65, IP66 and IP67 standards (ATEX Eexia Eex-d).

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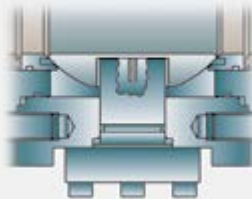
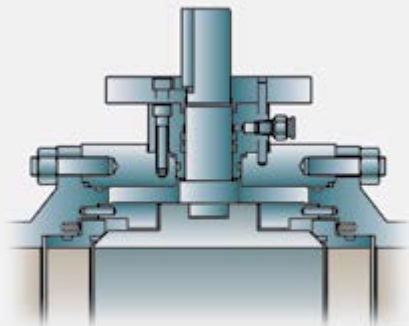
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Trunnion Side Entry Split Bolted or Welded Body and Top Entry Ball Valves

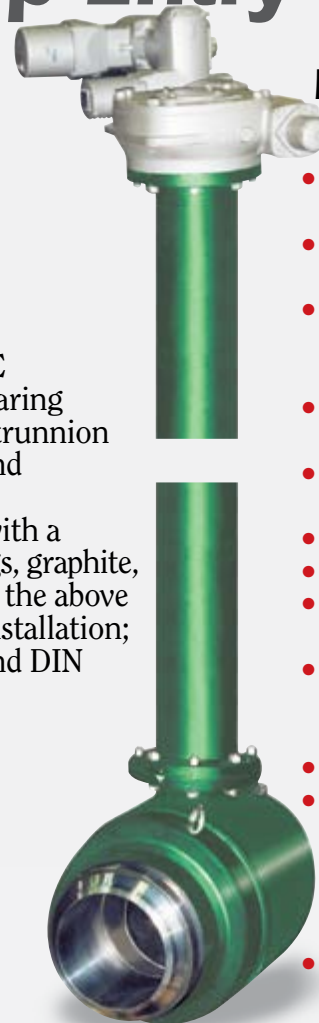
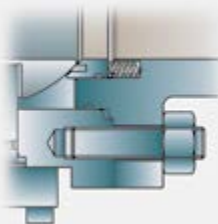
STANDARD FEATURES

Trunnion Mounted Ball Valves, 2/3 pcs split bolted body, side entry, full and reduced bore:

- Double Block and bleed;
- Fire safe certified (BS 6755, API 607 and API 6FA);
- Stem and trunnion sealing by three gaskets: one graphite seal and two o-rings;
- Antistatic device;
- Anti-blow-out stem design;
- Supporting feet on 6" and larger;
- Lifting lugs on 6" and larger;

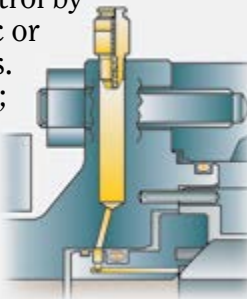
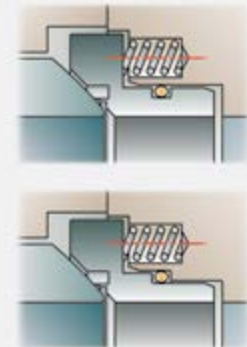


- Self Reliving Seats;
- Vent/Drain Plug;
- Lever/Gear Operated;
- Self lubricating PTFE impregnated steel bearing support of stem and trunnion for reduced torque and extended life;
- Sealing of the body with a combination of o-rings, graphite, gaskets to allow both the above ground and buried installation;
- Flanges ANSI, UNI and DIN standards available.



FEATURES UPON REQUEST

- BW or HUB ends, or compact flange
- Double piston effect;
- Body relief of valve for liquid line service;
- Emergency sealant injector;
- Extension stem for buried use;
- Cryogenic extension bonnet;
- Welded body configuration;
- Painting according to customer specification;
- Power assisted control by electric, pneumatic or hydraulic actuators.
- Metal seated valves;
- Subsea service configuration;
 - Transition pieces (pups)
 - Locking device
- Internal Valve Coating (epoxy Lining).



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Standard Tests

| HYDROSTATIC TEST | | | | | |
|--|-----------------|-------------|---|---|---|
| <i>PART</i> | <i>SEQUENCE</i> | <i>AREA</i> | <i>PRESSURE</i> | <i>DURATION (min.)</i> | <i>DESCRIPTION</i> |
| Shell | | A B C | 1.5xPress. Rating 1.5xPress. Rating 1.5xPress. Rating | From 2 to 30 min. depending on valve size | Shell hydrostatic test with valve half-open as follows: obtain hydrostatic test pressure and hold it for duration of testing. |
| Seat | | A B C | Atmospheric Atmospheric 1.1xPress. Rating | From 2 to 5 min. depending on valve size | Seat seal test at "C" end towards body "B". |
| Seat | | A B C | 1.1xPress. Rating Atmospheric Atmospheric | From 2 to 5 min. depending on valve size | Seat seal test at "A" end towards body "B". |
| AIR TEST (supplementary tests on request) | | | | | |
| <i>PART</i> | <i>SEQUENCE</i> | <i>AREA</i> | <i>PRESSURE</i> | <i>DURATION (min.)</i> | <i>DESCRIPTION</i> |
| Seat | | A B C | 5,5 bar Atmospheric Atmospheric | From 2 to 5 min. depending on valve size | Seat seal test at "A" end towards body "B". |
| Seat | | A B C | Atmospheric Atmospheric 5,5 bar | From 2 to 5 min. depending on valve size | Seat seal test at "C" end towards body "B". |

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OPTIONAL TESTS

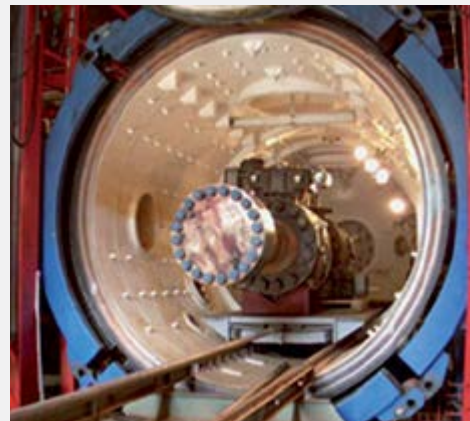
In case of special requirements of the customer various optional tests can be performed:

- Magnetic particle inspection;
- Liquid penetrant test;
- Ultrasonic test
- X-ray analysis;
- PMI.



SPECIAL TESTS

- Fugitive emission test;
- High pressure Nitrogen/Helium test;
- Low temperature test;
- Hyperbaric test;
- High Temperature Test



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Fire Safe Design Cladding

All **RBR** Ball Valves are fire safe designed. The fire safe design allow to prevent any leakages through the seals when the temperature reaches levels higher than the melting point of the seals.

Each **RBR** Ball Valves seals is provided with a secondary graphite seal wich is designed to endure the high temperatures for a determinate time.

Depending on the customer specifications or the environmental and fluid conditions, **RBR** Ball Valves can be provided with the most

appropriate cladding materials in order to improve the surface resistance to high abrasion service conditions.



The **RBR** Ball Valves fire safe design has been approved during the appropriate tests in accordance with the API 6FA and BS 6755 standards.



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MATERIALS FOR THE CONSTRUCTION

The valves are manufactured in accordance with our customers' requirements taking in consideration the operating conditions (i.e. fluid condition and environmental parameters like pressure and temperature).

A wide range of forged ferrous and non ferrous materials is available: carbon steel, low alloy steel, stainless steel, duplex stainless steel and nickel alloys, such as:

- A105 • A350 LF2 • A350 LF3
- AISI 4140 • AISI 1040
- A694 F60 • A694 F65
- A182 F6A - UNS S41000
- A182 F6NM - UNS S41500
- A182 F304 - UNS S30400
- A182 F316 - UNS S31600
- A182 F316LNM - UNS S31653
- A564 630 - UNS S17400
- A182 F44 - UNS S31254
- A182 F51 - UNS S31803
- A182 - UNS S32550
- A182 F53 - UNS S32750
- A182 F55 - UNS S32760
- B446 - UNS S06625
- UNS N08825 • UNS N08925



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SEALING MATERIALS ON REQUEST

When the standard soft sealing is no longer suitable due to the peculiar combination of pressure, temperature and chemical characteristic of the fluid, different sealing designs and materials are available.

Lip seals:
for cryogenic,
high temperatures and
corrosive applications.

**Metal to metal
seats** (high velocity
application of tungsten
carbide powder): in case
of a flowing media with
hard solid particles
or elevated
temperatures.

SEAT INSERTS

- PTFE (up to 6" max.); • PCTFE (Kel-F);
- Nylon; • Peek;
- Viton (all grades available) STD or AED service;
- NBR, HNBR;
- Perfluoro Elastomer (Kalrez, Chemraz)
- TFEP (AFLAS)

SEAL O-RING

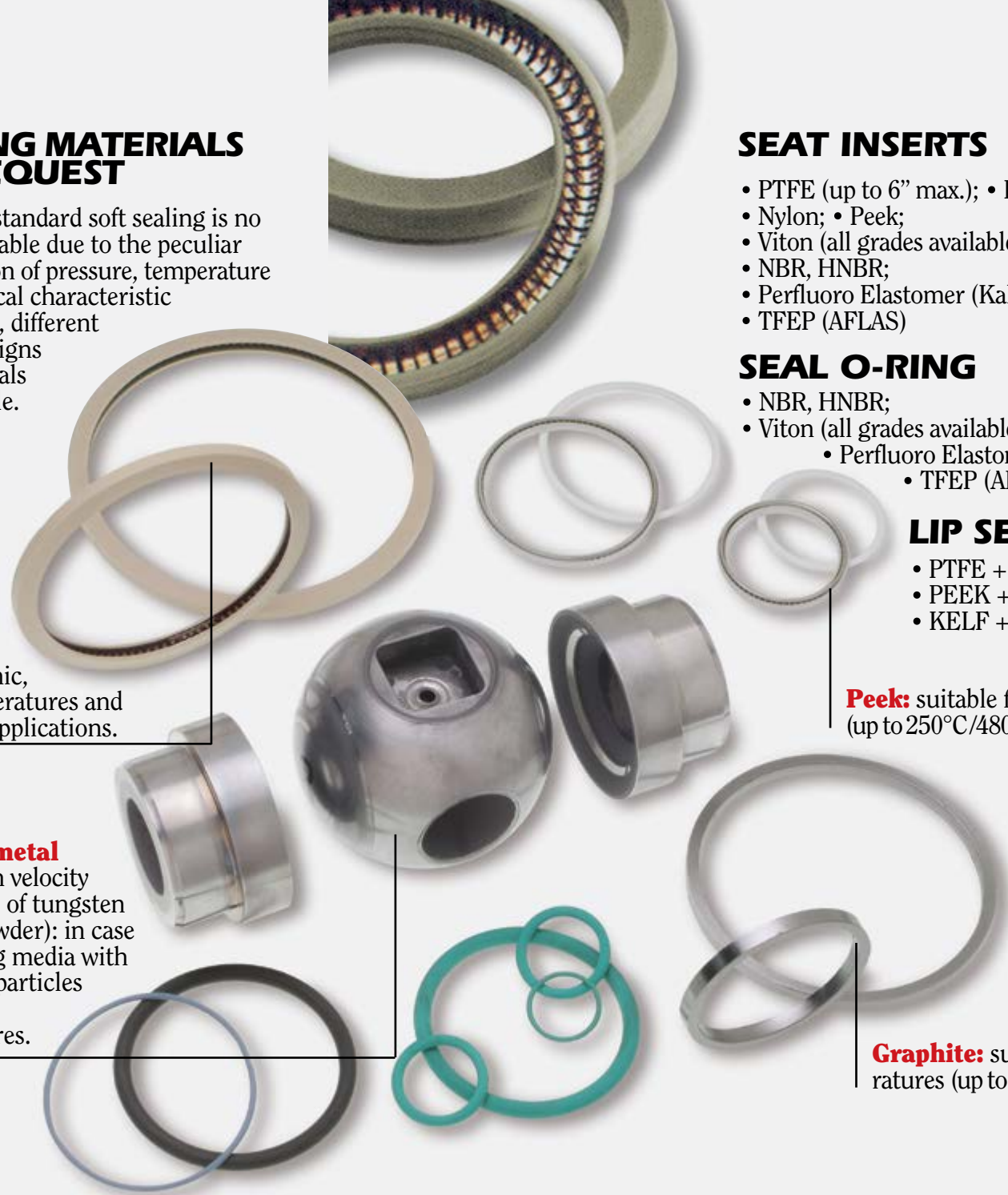
- NBR, HNBR;
- Viton (all grades available) STD or AED service.
 - Perfluoro Elastomer (Kalrez, Chemraz)
 - TFEP (AFLAS)

LIP SEAL

- PTFE + ELGILOY;
- PEEK + ELGILOY;
- KELF + ELGILOY.

Peek: suitable for high temperatures
(up to 250°C/480° F).

Graphite: suitable for very high temperatures
(up to 400°C/750° F).



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Quality Assurance Development

Under the constant supervision of the management and thanks to the large investments in human resources and equipment, **RBR** has grown to the point of being today regarded as a world class high quality valve manufacturer with the ISO 9001 accreditation certified by a primary International Independent Inspection Agency and API 6D monogramming authorisation.

The quality and reliability of **RBR** Ball Valves are checked, verified and guaranteed by the implementation of appropriate engineering and design, procurement, production processes, to the final

acceptance test, as well as by endurance type-testing.

Working in an International multistandards environment

RBR assure the capability to comply with the most demanding Customer's

requests and specifications. All production processes, both standard and special, are identified,

implemented, verified and managed by highly qualified personnel who under go periodically scheduled training courses.

The quality of the valves manufactured has always been a priority for **RBR**, as well as the after sales service: CUSTOMER SATISFACTION is the mission of **RBR**, with no compromises.

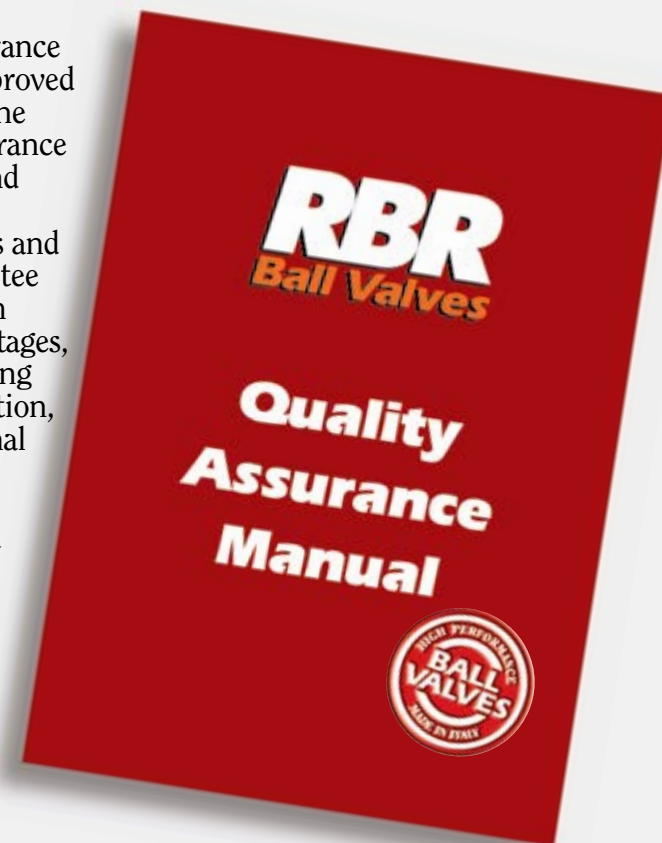


Quality Assurance System

RBR's quality assurance has been assessed, approved and certified against the following quality assurance standards: SO 9001 and API-6D since 1964.

Rigorous procedures and internal audits guarantee that the quality system is implemented at all stages, starting from incoming raw materials, production, final tests up to the final delivery.

RBR is also in a position to adhere and comply to individual requirements and specifications.



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Service

A dedicated team of skilled technicians are available on 24 hours base, to quickly and professionally respond to all our Customer's needs in case of emergency situations.

On request we can provide personnel for specific planned standard or preventive maintenance.



On site supervision and assistance are available as well as specific training courses according to Customer's requirements.

Most commonly used spare parts are available from stock and full parts interchangeability is guaranteed.



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8" 600 (-120°C + 200°C)

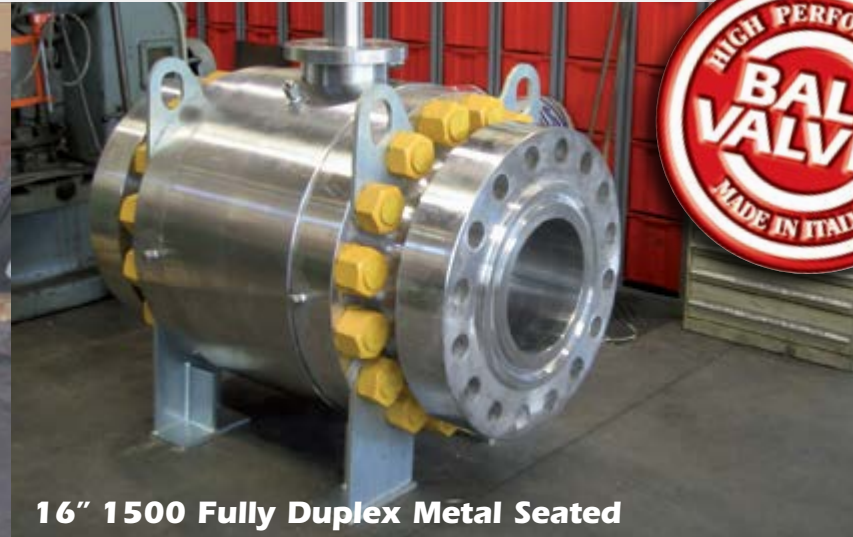


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10"x8" 1500 Fully Inconel Clad



16" 1500 Fully Duplex Metal Seated

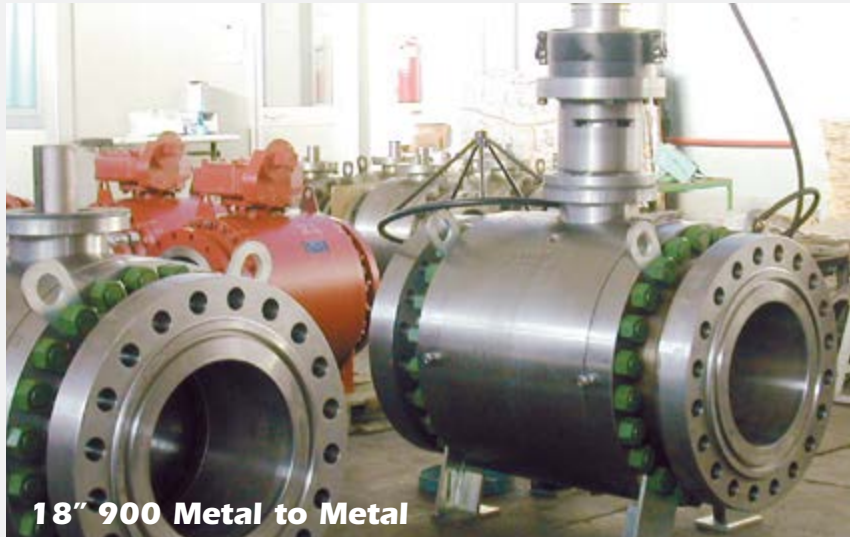


12" 2500 Hub Ends



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18" 900 Metal to Metal



18" 2500 Metal to Metal



16"x12" 1500

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12" 900 Metal to Metal seat

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Fully Welded Body



24" 150 Fully Welded Body



12" 600 Fully Welded



12" 150 Fully Welded Body

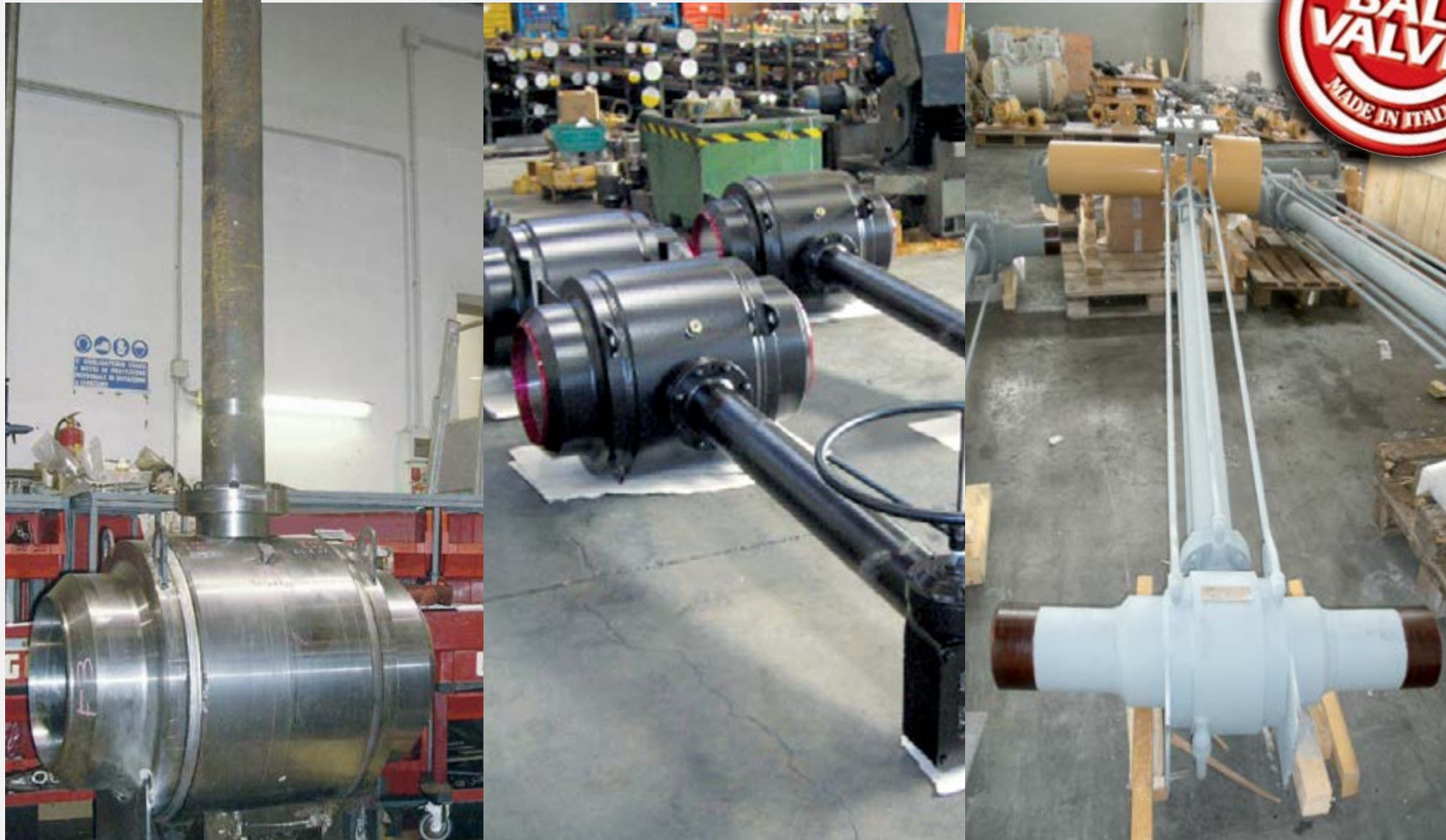


Actuated valve + Fire Safe protection

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Fully Welded Body Underground Application



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Top Entry



24" 900



8" 600



10" 1500



14" 1500

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Top Entry



24" 900 Metal to Metal



24" 900

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24" 1500 Top Entry



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Ball Valves

38" 900



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High Temperature Metal to Metal

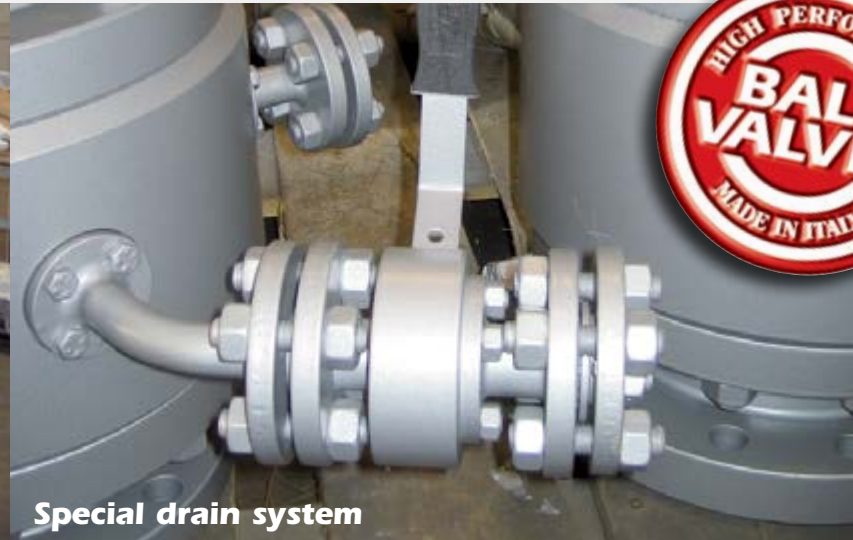


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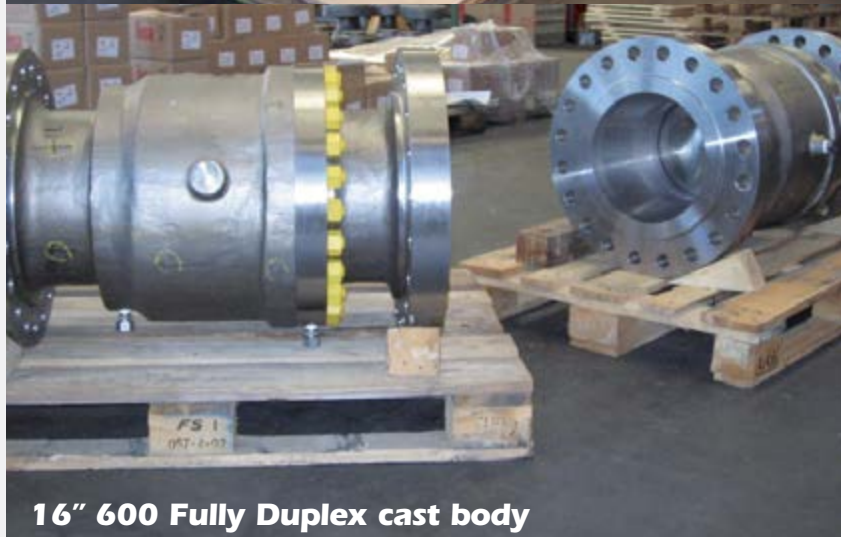
RBR
Ball Valves



ENP bodies & closures



Special drain system



16" 600 Fully Duplex cast body

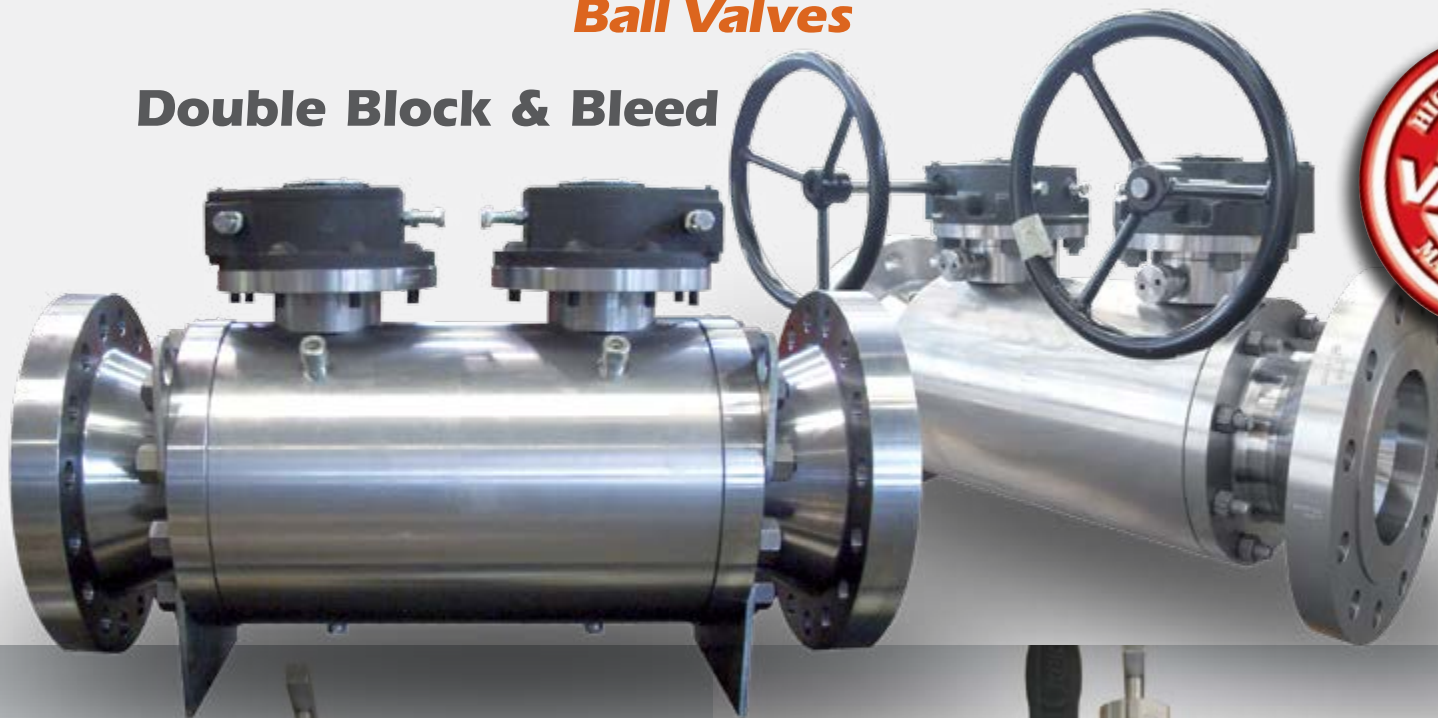


24" 150 cast body

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Double Block & Bleed



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3 Way Valve + Actuator



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Three-Way Ball Valves



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Three-Way Ball Valves



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High/Low Temperature Tests



Fugitive Emission Type Test +200°C

Fugitive Emission Type Test -120°C

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Low Temperature Test



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Subsea Valve



Hyperbaric Test



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Assembly



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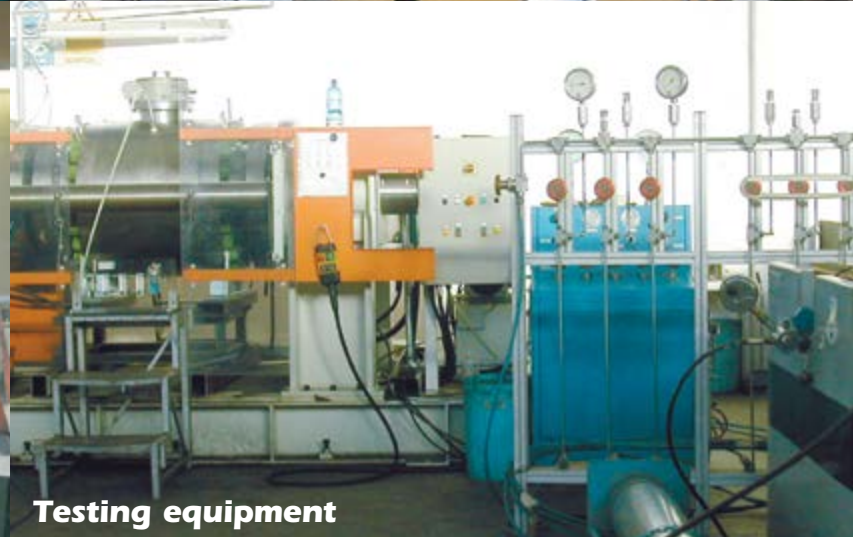
Testing equipment



24" 1500 under testing



Testing equipment



Testing equipment

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Packing

