

**XOMOX
Products Profile**
Sleeved Plug Valves

DIN and ANSI versions.
On-Off-valves, Multiport valves (3 to 5-way valves).
Jacketed valves.

Metallic Ball Valves

DIN and ANSI versions.
On-Off-valves, multiport valves (3 to 5-way valves).
Special valves.

High Performance Butterfly Valves

DIN and ANSI versions.
PTFE, FIRESAFE and metal seat DN 50 to DN 2550,
NPS 2 to 102, WAFER- and LUG-design.

Fully Lined Plug Valves

DIN and ANSI versions.
On-Off-valves, FEP and PFA lining.
Multiport valves (3 to 5-way valves).
Jacketed valves.

Fully Lined Ball Valves

DIN and ANSI versions.
PFA- and FEP-lining.

Fully Lined Butterfly Valves

DIN and ANSI versions.
WAFER- and LUG design, PFA-, FEP- and PTFE-lining.

Other Fully Lined Valves

Check valves, sight glasses, filters and strainers,
dip pipes and PTFE gaskets.

Control Valves

Control valves for precise throttling service.

Actuators and Accessory

XOMOX XRP-actuators for plug-, ball- and butterfly
valves.

Complete actuation accessory packages.

Detailed technical information providing comprehensive data is available on request.

**XOMOX -
Your Partner in Valves**

Continuous improvement is the foundation of our EN ISO 9001 certified Quality Process. We believe that continuous improvement is necessary at all levels and in all functions across the organization. Our Quality Process relies on effective teamwork between our customers, employees, suppliers, representatives and communities.

www.xomox.de

XOMOX Process Valves & Actuators

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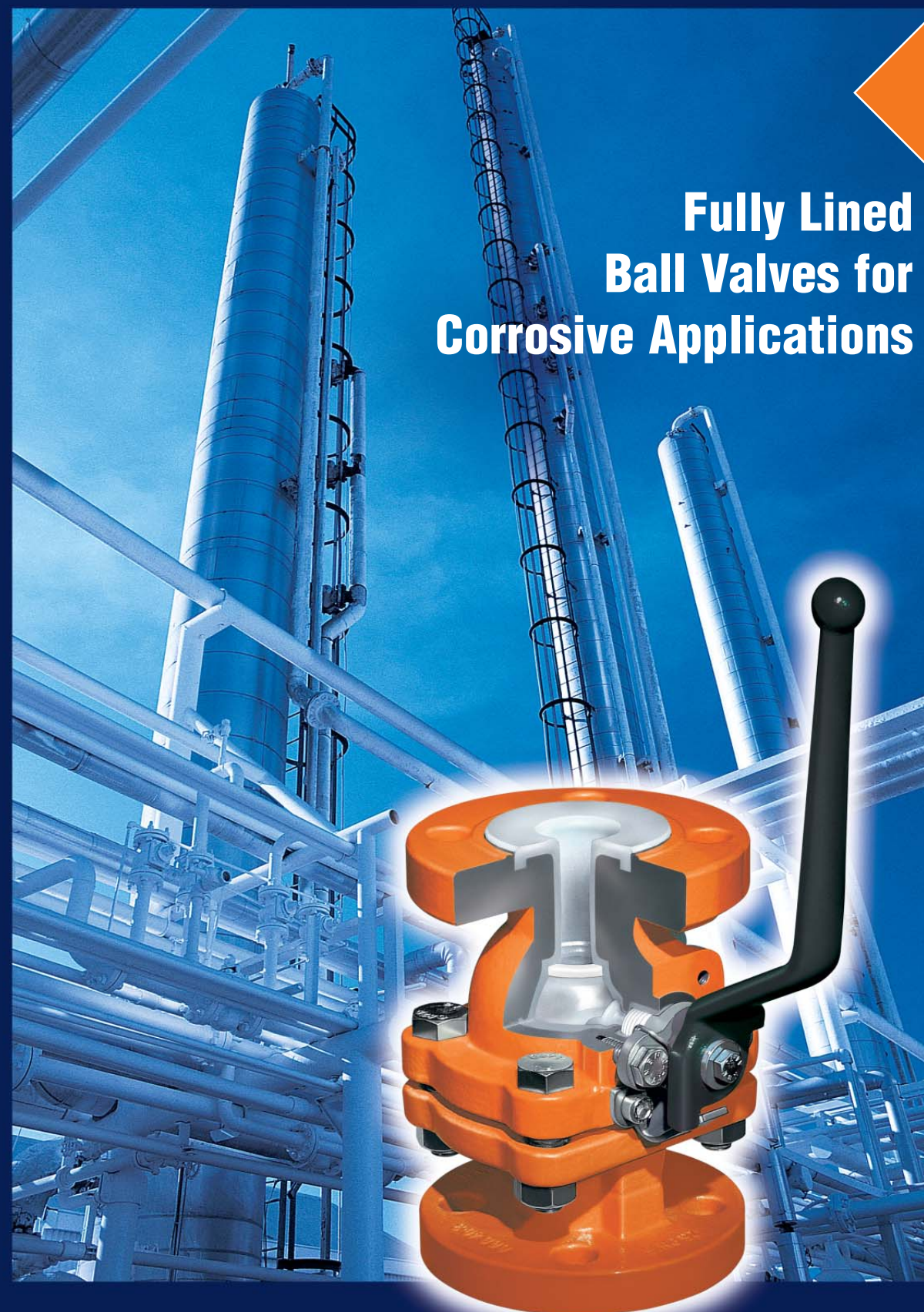
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Further manufacturing, sales and service in:
USA, Brasil, Canada, China, India, Japan, Korea, Mexico and Singapore

**XOMOX
Service and Automation Center**

Our EN ISO 9001 certified Service and Automation Centers offer comprehensive service, including valve automation, repair, modification, accessory packaging and other services. We also have standard valves, spare and accessory parts in stock. **Our Service and Automation Centers offer our customers complete service and quick turnaround for the most urgent requirements.**



**Fully Lined
Ball Valves for
Corrosive Applications**

Type R201 / R202

Performance

High quality level casting Two-piece full port valve body in EN-JS 1049 (ductile iron)

The standard DIN-version R 201 is available from DN 15 to 300 with face-to-face dimensions acc. to DIN/EN 558. The ANSI ball valve can be supplied from NPS 1/2 up to 12. The maximum pressure rating is 19,5 bar from DN 15 to 150 and 10 bar from DN 200 to 300.

Excellent diffusion and corrosion resistance due to virgin fluorocarbon resins

The 3 mm thick ball valve liners are made out of high-quality virgin FEP (180 °C), PFA (200 °C) or PVDF (130 °C). The lining of body, ball and stem guarantees that corrosive media never gets in contact with metal valve components. Spark testing at 20.000 V assures the high quality of the lining.

Minimal cavities reduce potential for product contamination

The design of XOMOX ball valves minimizes body cavity space and prevents retention of process media within the body cavity. This ensures media cleanliness and consistent product quality.

AY-PUR-coated body as standard

The standard Acryle-Polyurethane-coating of XOMOX ball valves prevents external valve corrosion.

Full bore design

The full bore design minimizes pressure loss and increases flow capacity.

Locked-in linings

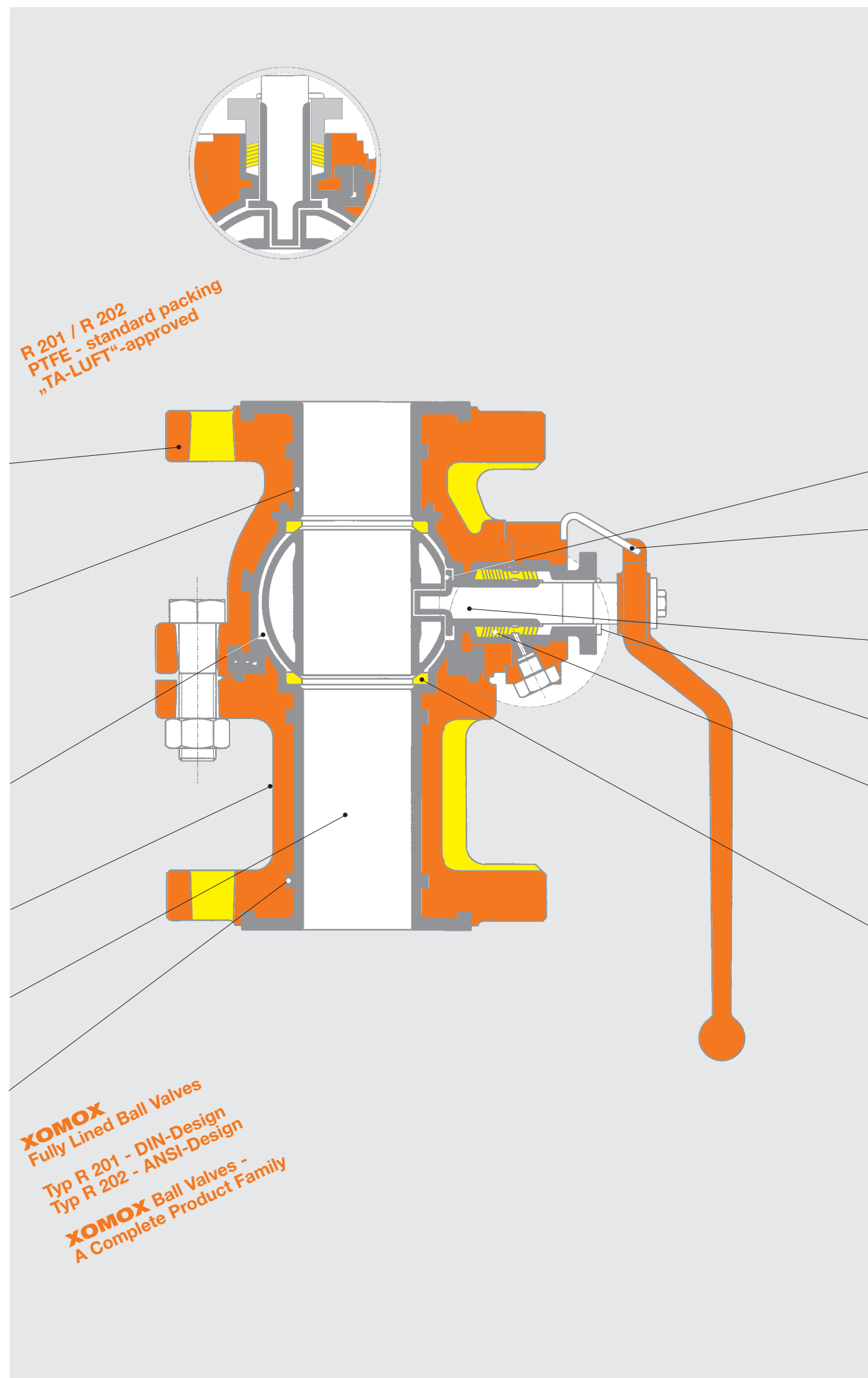
XOMOX lined ball valves have special grooves that lock the lining to the body casting. Blow-out or liner collapse are impossible.

Perfect vacuum resistance

XOMOX ball valves are full vacuum resistant with a 3 mm thick locked-in lining.

Modular concept of body and shaft sealing

The different sealing systems are easily interchangeable with one another.



R 201 / R 202
PTFE - standard packing
„TA-LUFT“-approved

XOMOX
Fully Lined Ball Valves
Typ R 201 - DIN-Design
Typ R 202 - ANSI-Design
XOMOX Ball Valves -
A Complete Product Family

Safety

Floating ball valve design

Even at lower pipeline pressures this design allows the ball to move against the downstream seat ring and thus ensures positive sealing.

Separate end-stop

The separate end-stop enables exact 0° - 90° operation and prevents any misuse. The lever position provides optical verification of exact valve position.

Anti-blow out stem

The blow-out proof stem design ensures stem retention independent of shaft sealing.

Antistatic clip

A special anti-static-device guarantees protection against electrostatic changes and thus prevents accidents.

Long-term protection against external and internal leakage, less than 10⁻⁶ mbar l/s

The multi-stage, high performance packing eliminates external leakage. The excellent in-line tightness is achieved by the floating ball valve design and high quality components.

We have successfully tested our stem packings for more than 200 000 operations.

Long-life PTFE seats

XOMOX PTFE seats ensure consistent operating torques while minimizing downtime and maintenance.

XOMOX quality assurance

All XOMOX ball valves are designed and manufactured to rigid quality control standards. XOMOX ball valves fulfill highest international safety standards and have quality certifications such as „TA-Luft“, type-test approvals and FDA-conformity.

Economy

Low investment for high performance lined ball valves

The economical solution

XOMOX ball valves are a cost efficient solution for corrosive applications, replacing high alloy valves.

Versatility

XOMOX ball valves are designed for a wide range of applications in the chemical, petrochemical, pharmaceutical and other industries.

Minimum maintenance and long life-time

The intrinsic valve design and top quality components provide a long service life and ensure minimum maintenance costs.

Easily replaceable sealing components

The design of XOMOX ball valves allows the replacement of seal-parts and significantly contributes to reduced maintenance costs.

Options

● Metal to metal body joint

For controlled lining compression
Especially for heavy duty applications with mechanical and thermal loads.

● Ball valve with ceramic ball

For abrasive media as well as high pressure/temperature service used in the chemical and pharmaceutical industry.

● Tank bottom valve

The valve is used for charging or discharging of vessels with a minimum pressure loss.

● Heat jacketed ball valve

For applications requiring closely regulated temperatures e.g. polymerising media.

● Ball valve with grounding strap

This grounding strap connects the two body parts to guarantee electrical conductivity.

● Ball valve R203 acc. to JIS 10K

Performance

High quality level casting Two-piece full port valve body in EN-JS 1049 (ductile iron)

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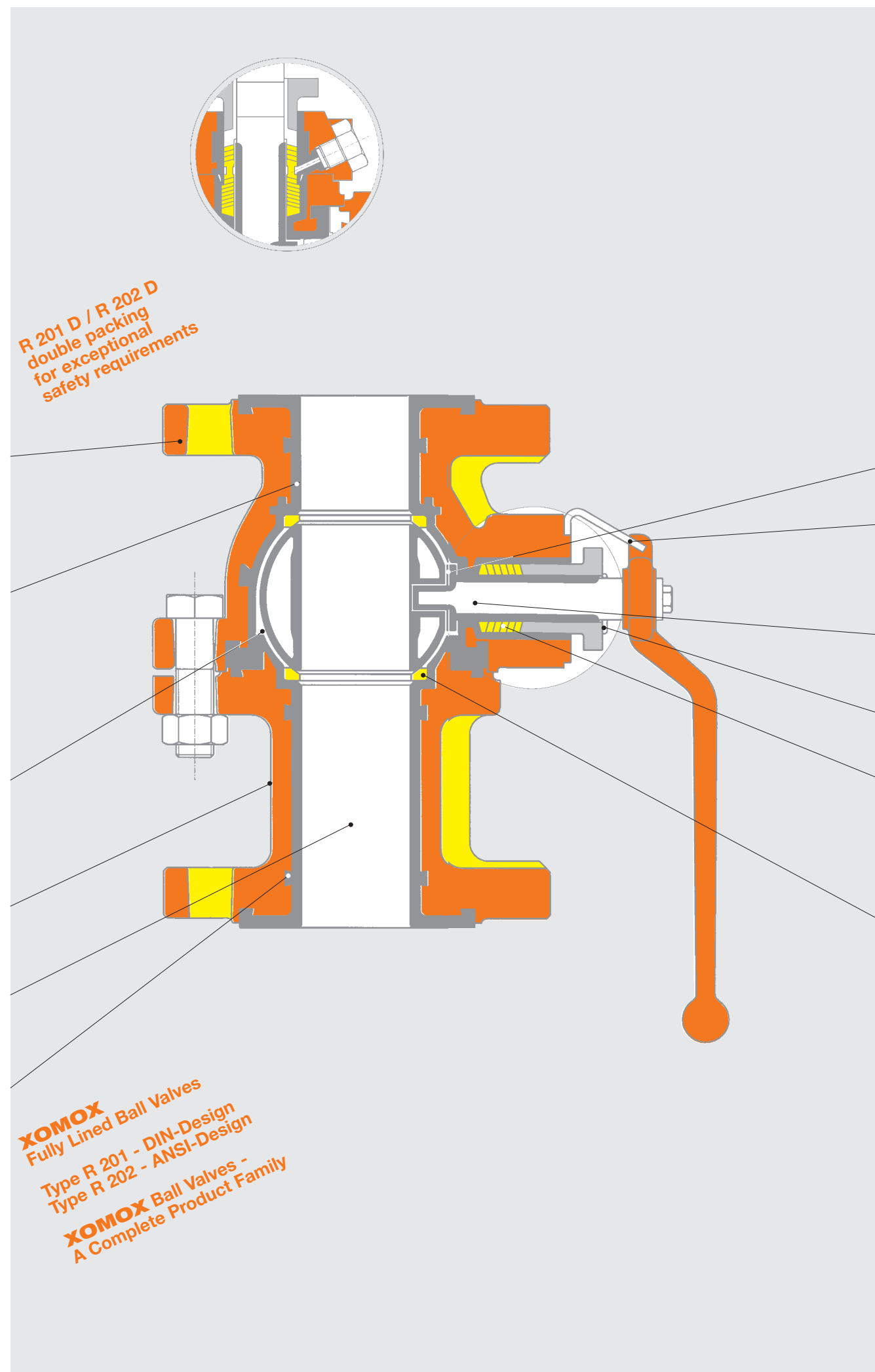
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● Ball valve with grounding strap

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● Ball valve R203 acc. to JIS 10K

Performance

High quality level casting Two-piece full port valve body in EN-JS 1049 (ductile iron)

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Full bore design

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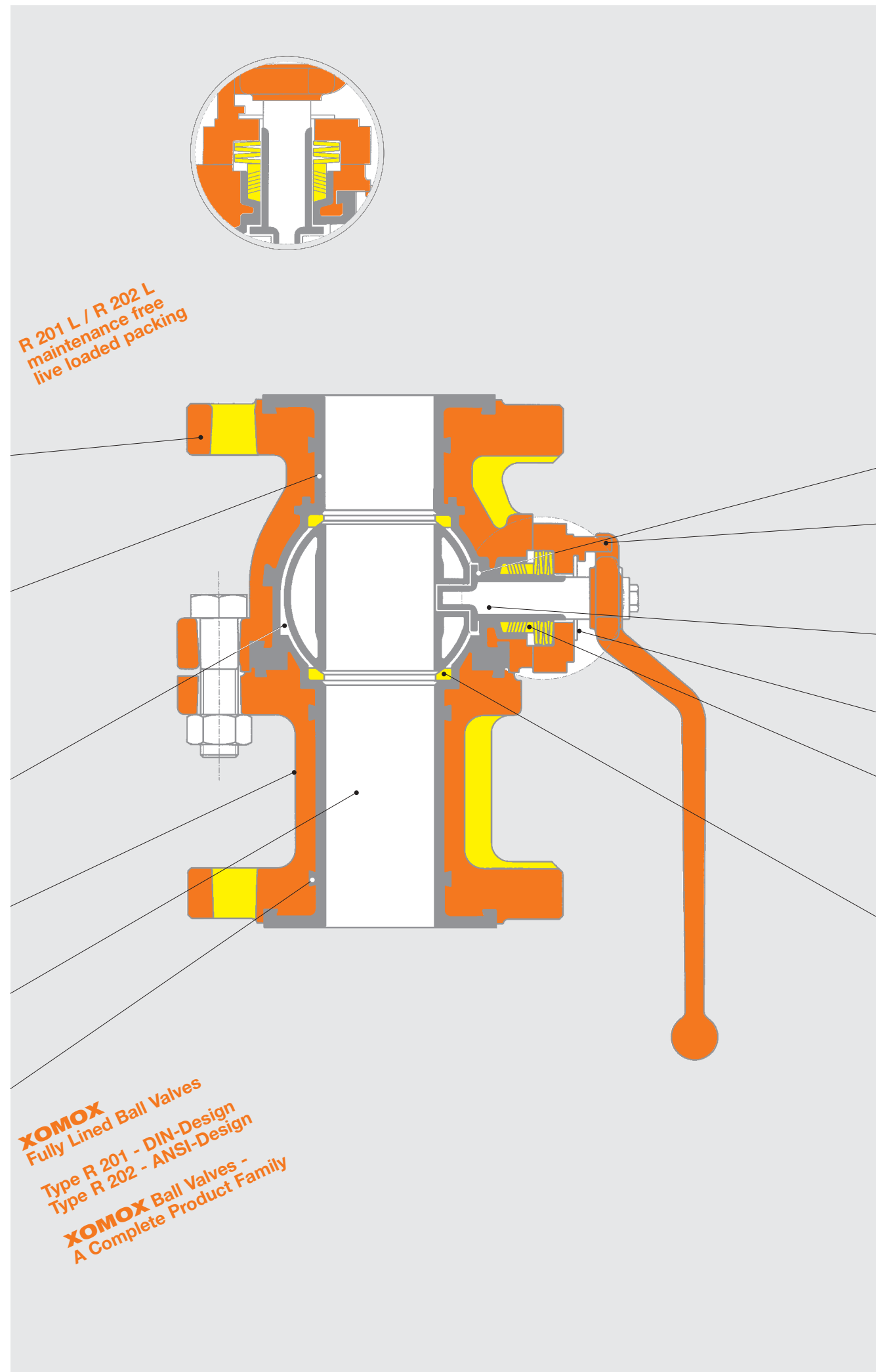
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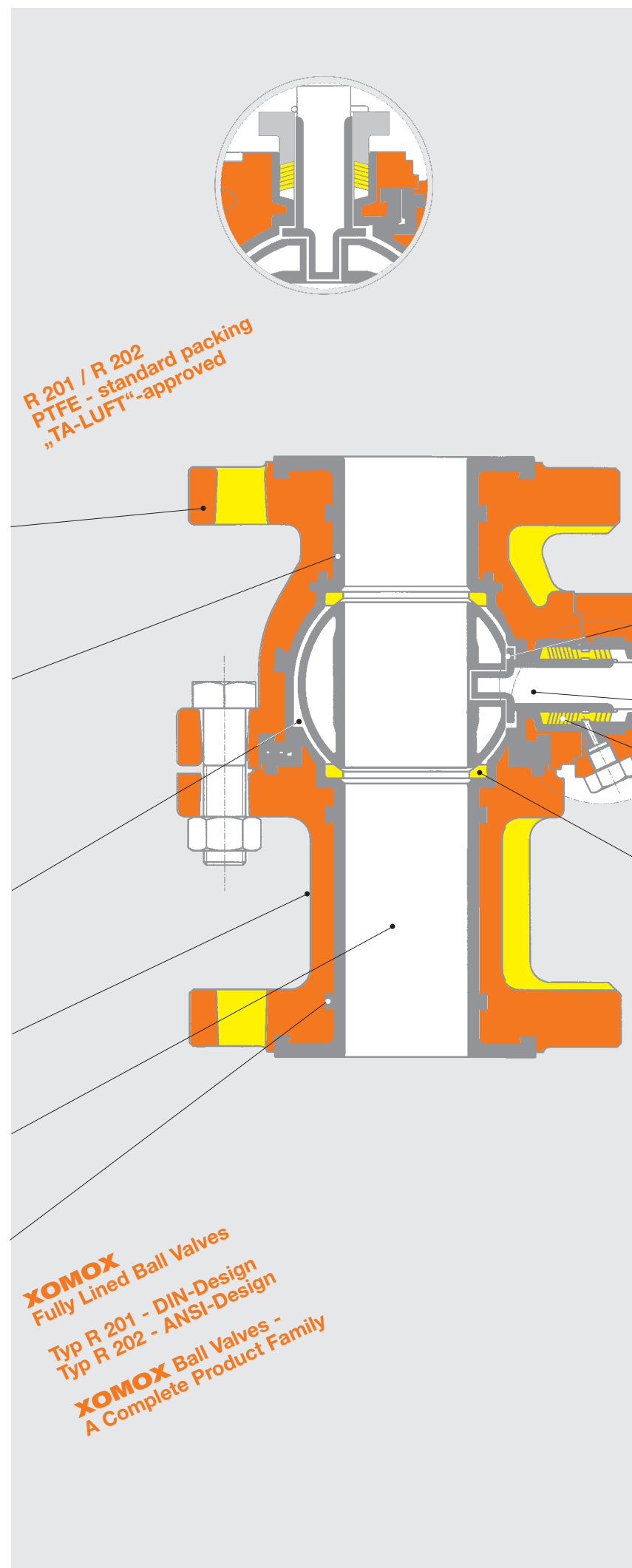
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Simple actuator mounting in accordance with DIN/ISO 5211

XOMOX ball valves can easily be automated with pneumatic, electrical and hydraulic actuators. All actuators can be mounted without removing the valve from the line.

Low torque requirements Economical valve operations

DN (mm)	15	20	25	32	40	50	65	80	100	125	150	200	250/200	300
NPS (inch)	1/2	3/4	1	1 1/4	1 1/2	2	2 1/2	3	4	5	6	8	10/8	12
T (Nm) *	7	7	7	7	14	28	42	62	94	125	140	500	500	1800
T (Nm) **	14	14	14	14	27	50	100	200	255	1200	#	#	#	#

* Torques at 20 °C and $\Delta p = 16$ bar

** Torques for Al₂O₃ Ball

On Request

Operator Options

XOMOX ball valve package

XOMOX fully lined ball valves can be supplied with a variety of pneumatic, preferably XOMOX-XRP electrical or hydraulic actuators. Due to the free floating ball design a bubble-tight shut off is achieved with low torques. All quarter-turn XOMOX valves can be readily and inexpensively fitted with XOMOX-XRP actuators. XOMOX also supplies a complete line of actuator devices and accessories (limit switches, solenoid valves, etc.) to complement your valving needs.

Manual operation

As standard XOMOX ball valves will be equipped with lever up to DN 150, above DN 200 with Gears.

- **T-wrench**
For insulated pipelines.
- **Lockable levers**
To avoid either any unapproved operation or for maintenance lock-outs.
- **Handwheels**
To prevent accidental operation.

