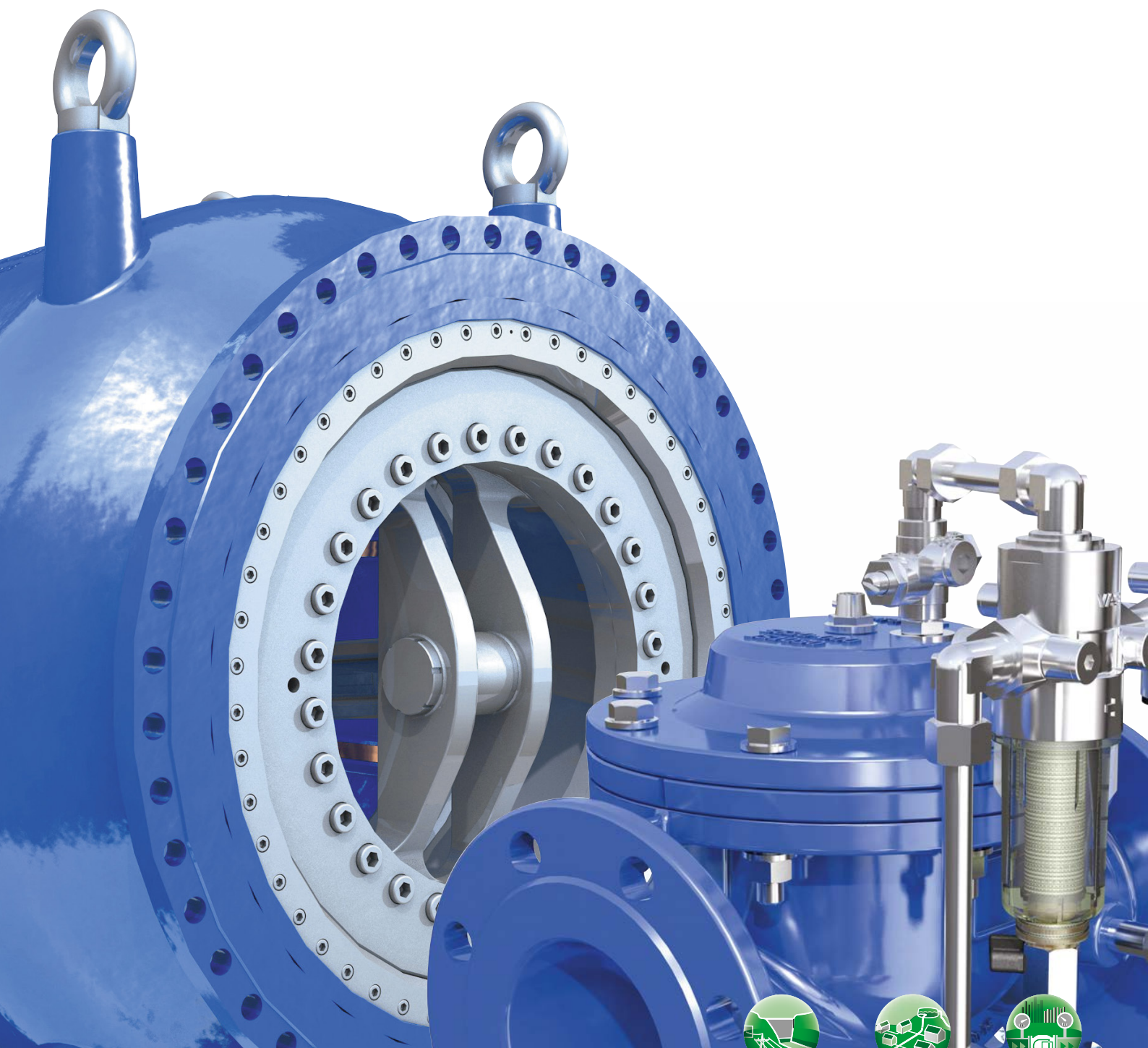

VAG Control Valves

**When experience and knowledge
come into motion**



Dams and
hydropower



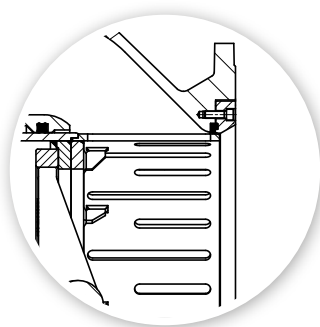
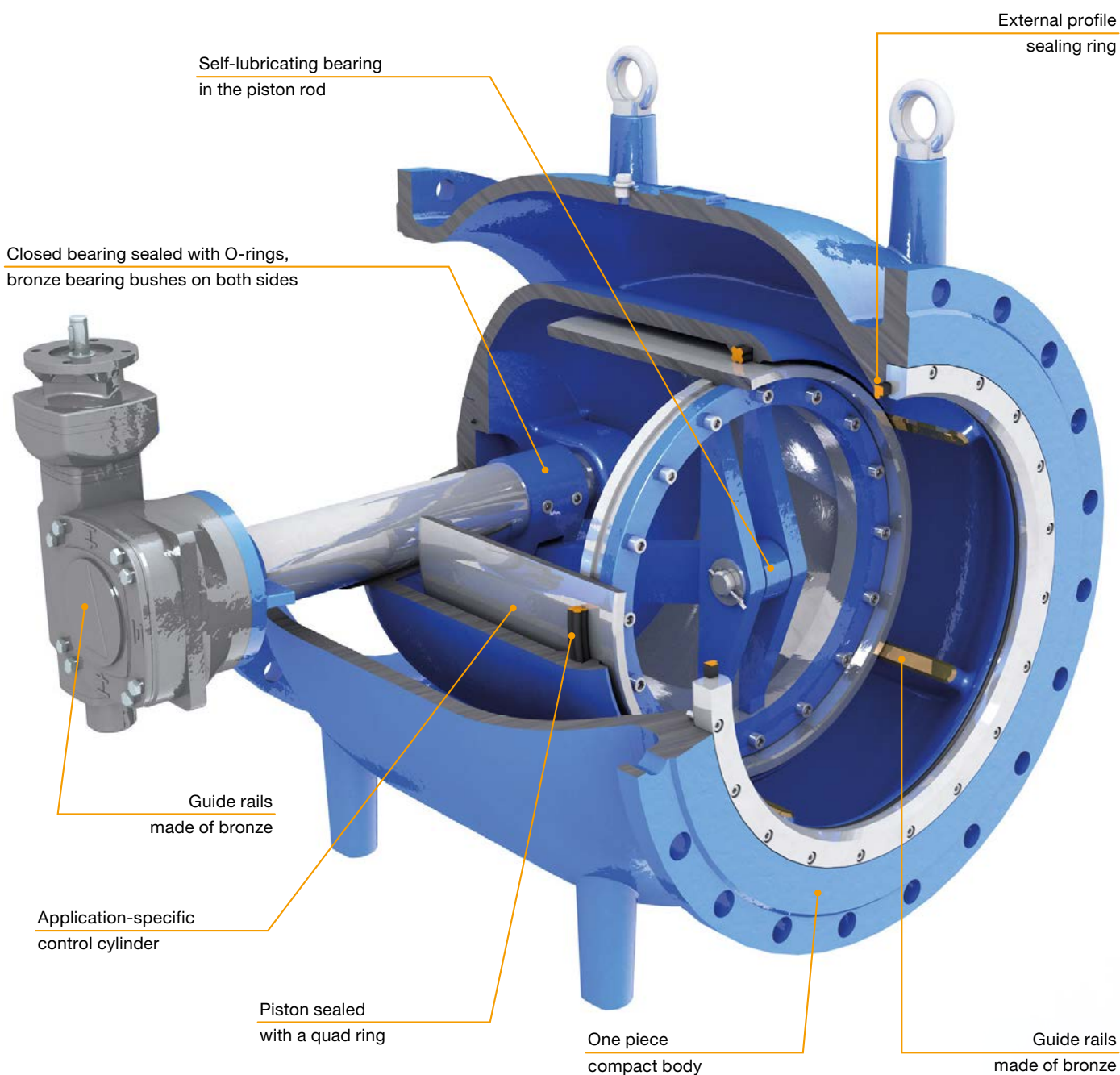
Water distribution



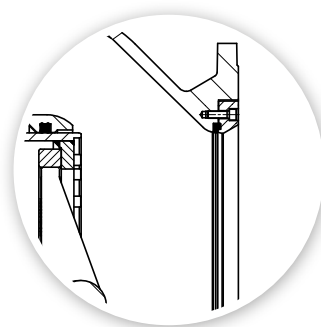
Pressure
management

VAG RIKO® Plunger Valve

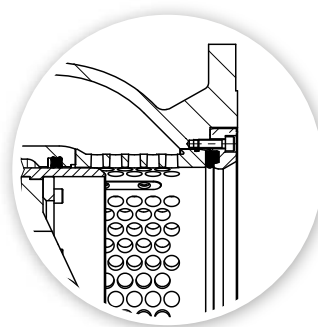
Precision that controls everything



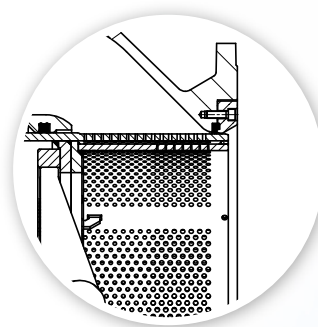
Slotted cylinder for medium with suspended solids



Cut-off edge cylinder for lower differential pressure



Rigid anti-cavitation orifice cylinder



Adjustable anti-cavitation double cylinder for high pressure gaps

Product features

- Cavitation-free operation provided by optimal design.
- Valve seal in the no-flow zone for a long service life.
- Drive with a self-locking worm gear unit with a constant transmission ratio for a linear control curve in connection with an optimal control device.
- One piece, compact body across the full nominal width, thus reducing the number of components and eliminating potential leak path.
- Hard-faced bronze guides for low operating forces which also prevent the piston from jamming.
- Quad-ring seal not sensitive to deposits on the piston.
- Valve highly efficient thanks to an optimised design and flow path.
- Connecting rod installed in maintenance-free, robust bronze / plastic compound bushes.

Technical details

- Nominal pressures PN 10 ... 100, class 150 / 300
- Nominal diameters DN 150 ... 2200
- Standard version: Body made of EN-GJS-400-15 (GGG-40) ductile iron, piston made of 1.4301 stainless steel, guide rails made of bronze
- With an adapted control device, worm gear unit and position indicator
- Coating: inside and outside epoxy coating (EN 14901-1+A1)

Fields of application



Pressure management



Dams and hydropower



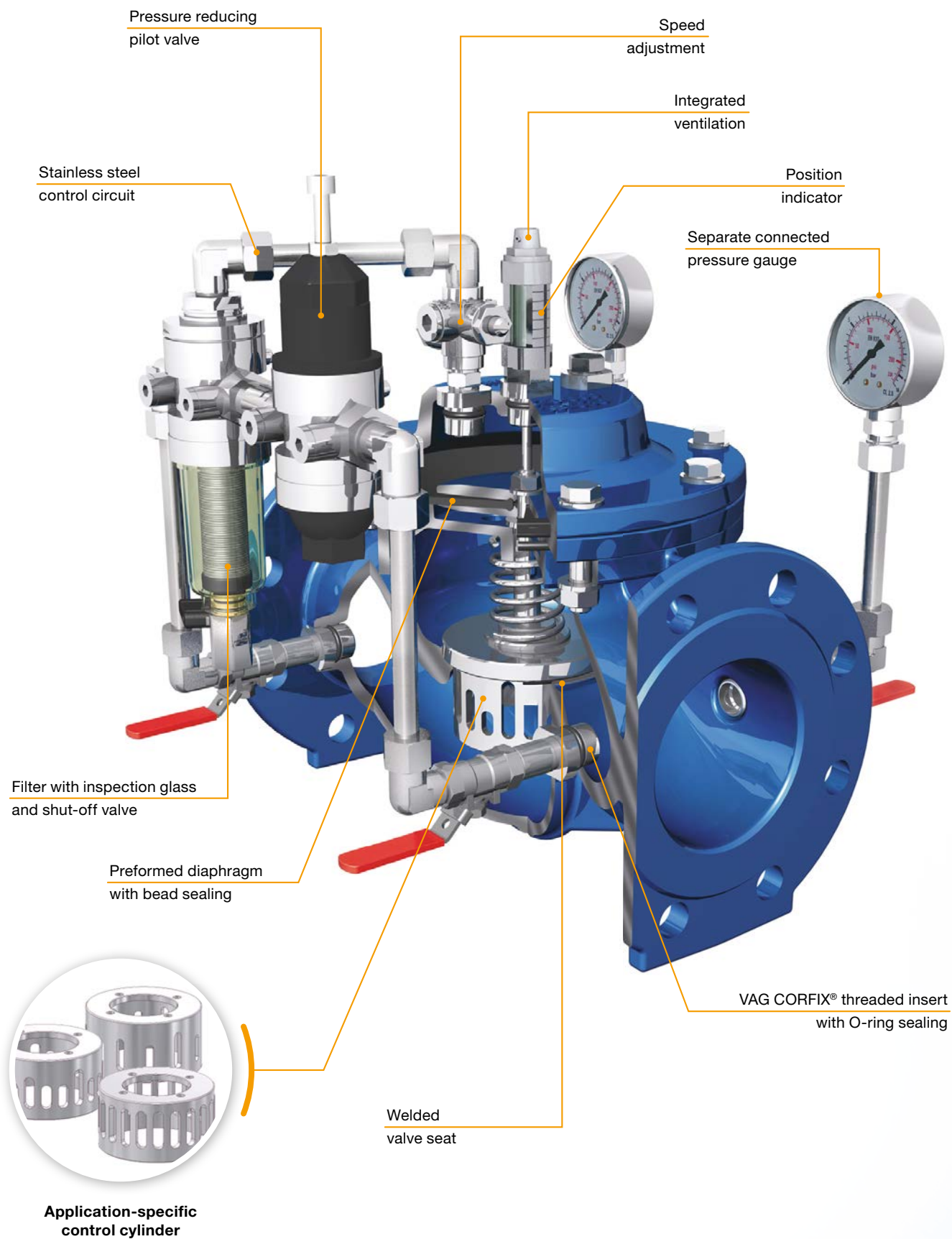
Water distribution

Interesting facts

- The valve can be serviced and dismantled without removing it from the pipeline if the pipes are sized for easy accessibility.
- There are many RIKO variants which are always selected with regard to a specific project.
 - With a slotted cylinder to regulate high pressure differences in water with high solids („SZ“)
 - With a multiple orifice cylinder to regulate high pressure differences („LH“)
 - With a double cylinder for very high pressure differences („LHD“)
 - With a tripple cylinder for special applications („LHT“)
 - With a cut-off edge and a sudden enlargement of the cross-sectional area at the seat („E“)
 - With a special cylinder, adapted to customer requirements

VAG PICO® H Pressure Reducing Valve

Automatic and reliable for the control of water



Product features

- Welded valve seat enhances resistance to wear, is anti-filtration and prevents the development of corrosion.
- Replaceable cylinders for better adaptation to operating conditions and for cavitation-free operation.
- Integrated ventilation in the bonnet for the automatic release of trapped air and for preventing pressure fluctuations.
- Preformed membrane with bead sealing to prevent installation errors, secure sealing of the body. Integrated stroke distance reduces wear and increases the useful life.
- Chambered, profile sealing ring on the valve seat, protected against extraction for guaranteed impermeability.

Technical details

- Nominal pressures PN 10, 16
- Nominal diameters DN 50 ... 300
- Standard version: Body and bonnet made of EN-GJS-400-15 (GGG-40) ductile iron, diaphragm and sealing made of EPDM according to DVGW W270, with an SZ40 slotted cylinder
- Self-acting valve, suitable for independent operation without an external supply of energy
- Coating: inside and outside epoxy coating (GSK quality)

Fields of application



Pressure management



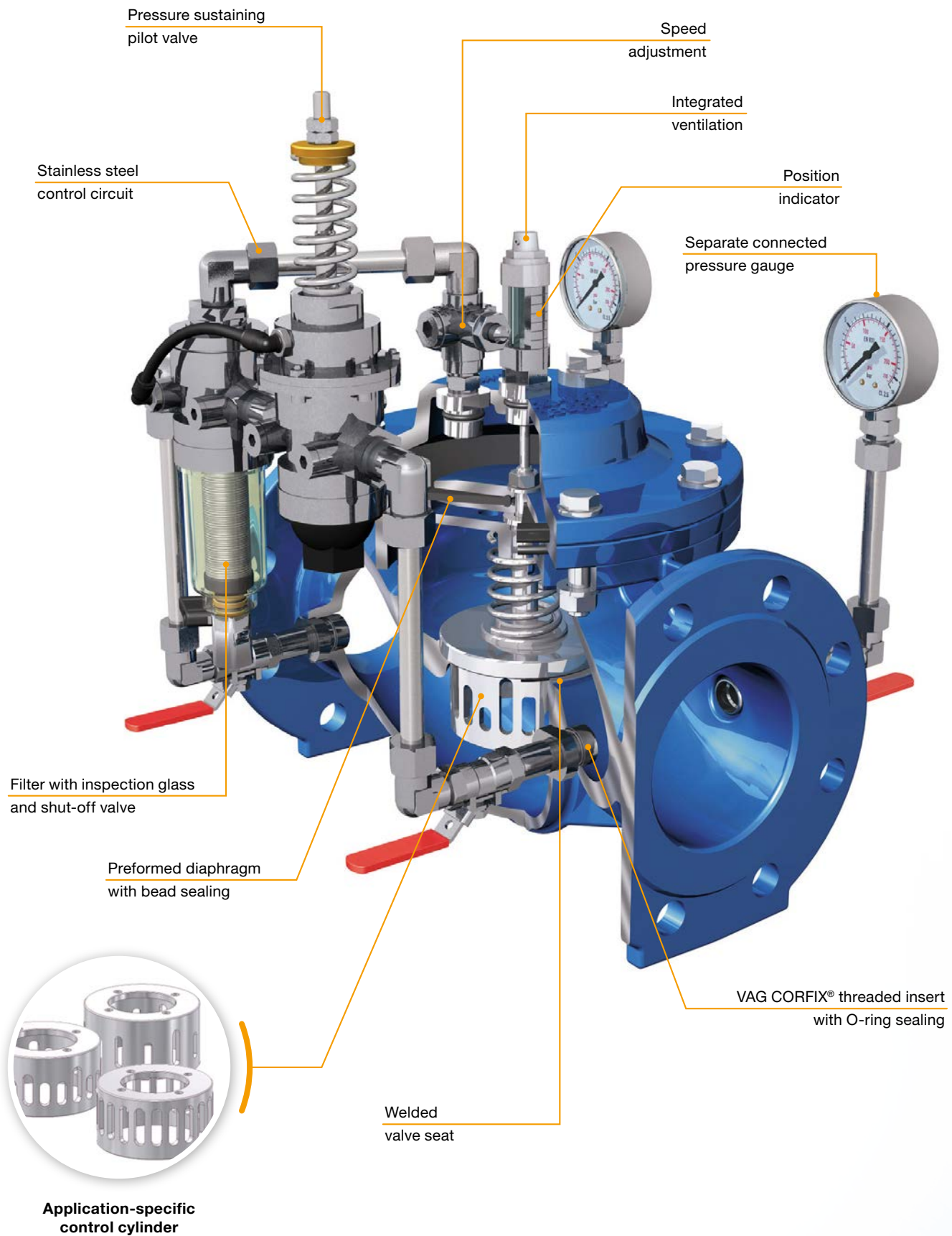
Water distribution

Interesting facts

- VAG CORFIX® press-fitted threaded inserts prevent exposed cast areas around connections and the development of corrosion.
- Compact control block for setting opening and closing stroke speeds separately in order to adapt the response times to the operating situation.
- Fine-pored filter with inspection glass and shut-off valve for visualising the contamination level in the control circuit. Flushing also possible in operation while installed.

VAG PICO® H Pressure Sustaining Valve / Discharge Valve

Automatic and reliable for the control of water



Product features

- Welded valve seat enhances resistance to wear, is anti-filtration and prevents the development of corrosion.
- Replaceable cylinders for better adaptation to operating conditions and for cavitation-free operation.
- Integrated ventilation in the bonnet for the automatic release of trapped air and for preventing pressure fluctuations.
- Preformed membrane with bead sealing to prevent installation errors, secure sealing of the body. Integrated stroke distance reduces wear and increases the useful life.
- Chambered, profile sealing ring on the valve seat, protected against extraction for guaranteed impermeability.

Technical details

- Nominal pressures PN 10, 16
- Nominal diameters DN 50 ... 300
- Standard version: Body and bonnet made of EN-GJS-400-15 (GGG-40) ductile iron, diaphragm and sealing made of EPDM according to DVGW W270, with an SZ40 slotted cylinder
- Self-acting valve, suitable for independent operation without an external supply of energy
- Coating: inside and outside epoxy coating (GSK quality)

Fields of application



Pressure management



Water distribution



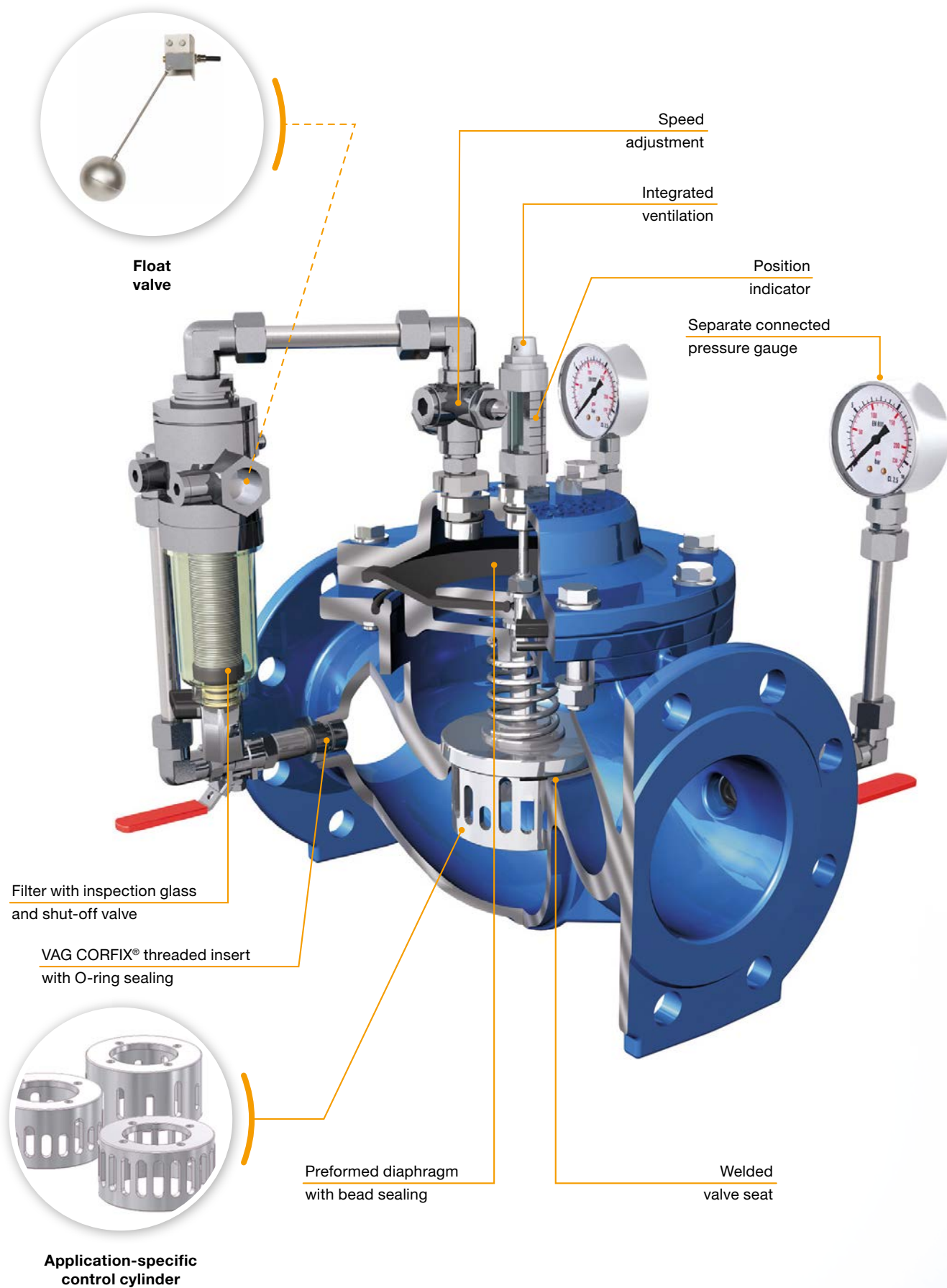
RAL GUTEZEICHEN

Interesting facts

- VAG CORFIX® press-fitted threaded inserts prevent exposed cast areas around connections and the development of corrosion.
- Compact control block for setting opening and closing stroke speeds separately in order to adapt the response times to the operating situation.
- Fine-pored filter with inspection glass and shut-off valve for visualising the contamination level in the control circuit. Flushing also possible in operation while installed.

VAG PICO® H Float Valve

Automatic and reliable for the control of water



Product features

- Welded valve seat enhances resistance to wear, is anti-filtration and prevents the development of corrosion.
- Replaceable cylinders for better adaptation to operating conditions and for cavitation-free operation.
- Integrated ventilation in the bonnet for the automatic release of trapped air and for preventing pressure fluctuations.
- Preformed membrane with bead sealing to prevent installation errors, secure sealing of the body. Integrated stroke distance reduces wear and increases the useful life.
- Chambered, profile sealing ring on the valve seat, protected against extraction for guaranteed impermeability.

Technical details

- Nominal pressures PN 10, 16
- Nominal diameters DN 50 ... 300
- Standard version: Body and bonnet made of EN-GJS-400-15 (GGG-40) ductile iron, diaphragm and sealing made of EPDM according to DVGW W270, with an SZ40 slotted cylinder
- Self-acting valve, suitable for independent operation without an external supply of energy
- Coating: inside and outside epoxy coating (GSK quality)

Fields of application



Pressure
management



Water distribution



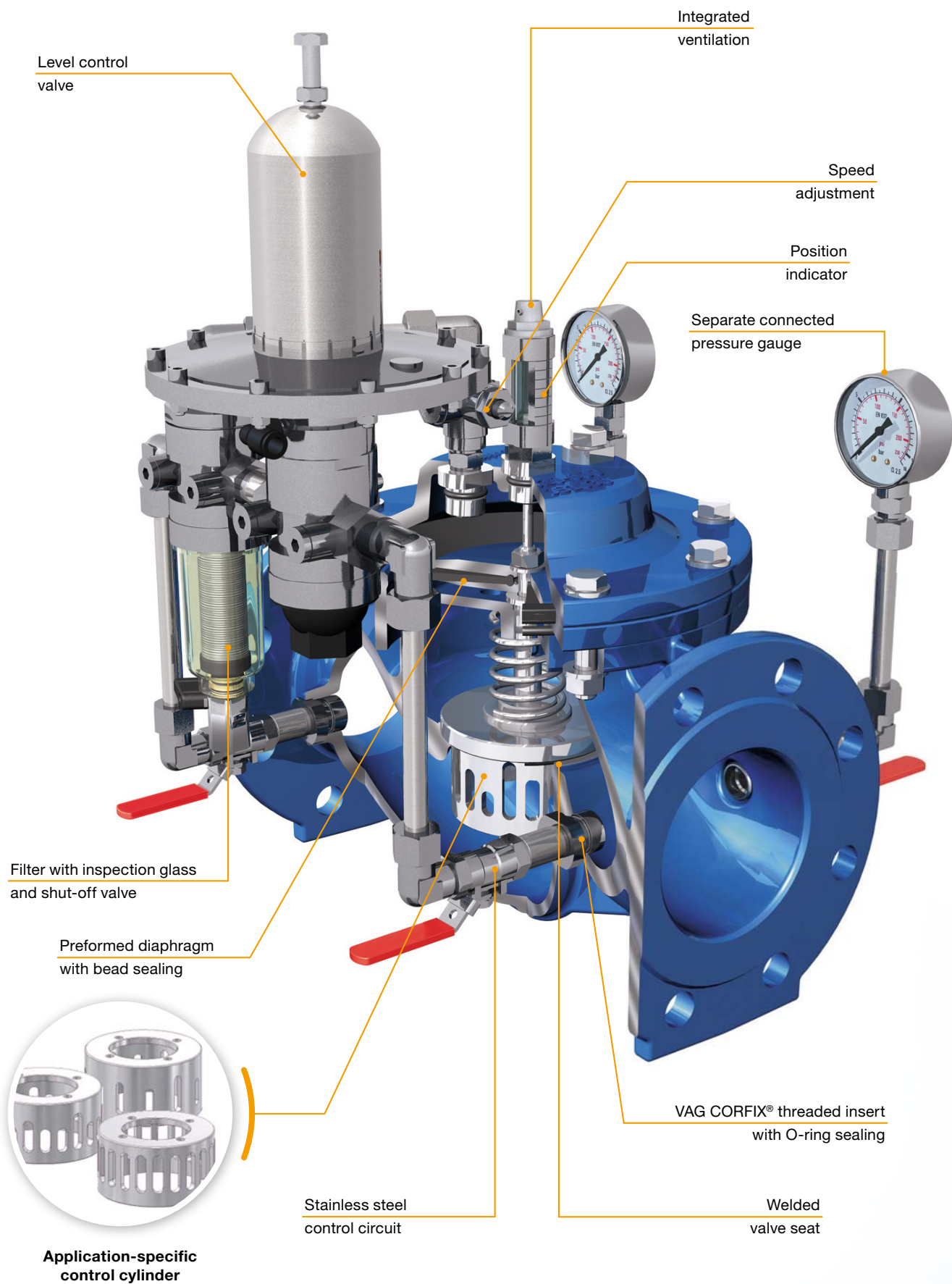
RAL GUTEZEICHEN

Interesting facts

- VAG CORFIX® press-fitted threaded inserts prevent exposed cast areas around connections and the development of corrosion.
- Compact control block for setting opening and closing stroke speeds separately in order to adapt the response times to the operating situation.
- Fine-pored filter with inspection glass and shut-off valve for visualising the contamination level in the control circuit. Flushing also possible in operation while installed.

VAG PICO® H Level Control Valve

Automatic and reliable for the control of water



Product features

- Welded valve seat enhances resistance to wear, is anti-filtration and prevents the development of corrosion.
- Replaceable cylinders for better adaptation to operating conditions and for cavitation-free operation.
- Integrated ventilation in the bonnet for the automatic release of trapped air and for preventing pressure fluctuations.
- Preformed membrane with bead sealing to prevent installation errors, secure sealing of the body. Integrated stroke distance reduces wear and increases the useful life.
- Chambered, profile sealing ring on the valve seat, protected against extraction for guaranteed impermeability.

Technical details

- Nominal pressures PN 10, 16
- Nominal diameters DN 50 ... 300
- Standard version: Body and bonnet made of EN-GJS-400-15 (GGG-40) ductile iron, diaphragm and sealing made of EPDM according to DVGW W270, with an SZ40 slotted cylinder
- Self-acting valve, suitable for independent operation without an external supply of energy
- Coating: inside and outside epoxy coating (GSK quality)

Fields of application



Pressure management



Water distribution



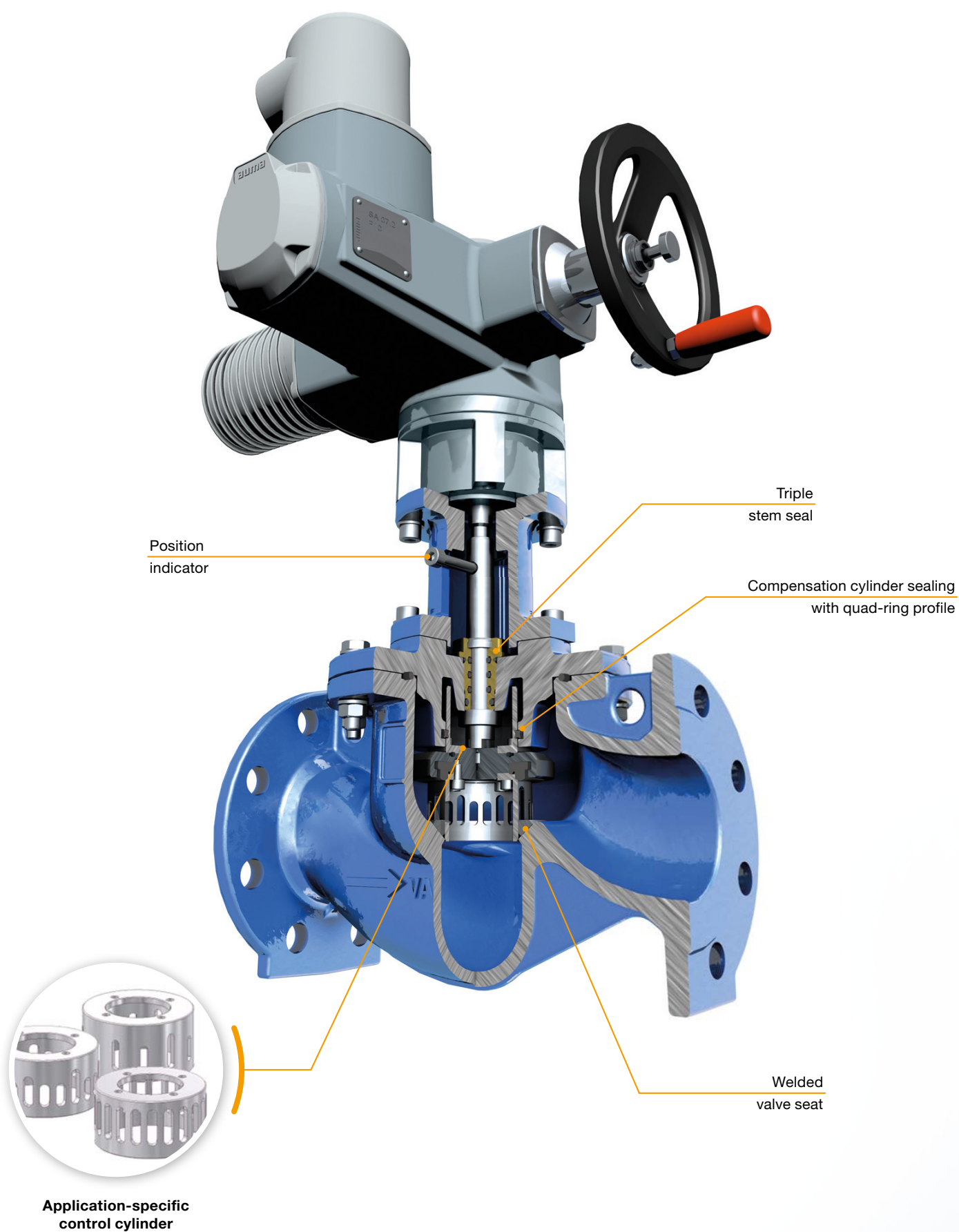
RAL GUTEZEICHEN

Interesting facts

- VAG CORFIX® press-fitted threaded inserts prevent exposed cast areas around connections and the development of corrosion.
- Compact control block for setting opening and closing stroke speeds separately in order to adapt the response times to the operating situation.
- Fine-pored filter with inspection glass and shut-off valve for visualising the contamination level in the control circuit. Flushing also possible in operation while installed.

VAG DURA Control Valve

The best of many valve types in one



Product features

- Welded valve seat enhances resistance to wear, is anti-filtration and prevents the development of corrosion.
- Replaceable cylinders for better adaptation to operating conditions and for cavitation-free operation.
- Chambered, profile sealing ring on the valve seat, protected against extraction for guaranteed impermeability.
- Low actuating torque due to pressure balanced compensation cylinder.

Technical details

- Nominal pressure PN 16
- Nominal diameters DN 50 ... 150
- Standard version: Body and bonnet made of EN-GJS-400-15 (GGG-40), valve seals made of EPDM according to DVGW W270; stem, slotted cylinder and compensation cylinder made of stainless steel, stem bearing made of brass
- Coating: inside and outside epoxy coating (GSK quality)

Fields of application



Pressure
management



Water distribution



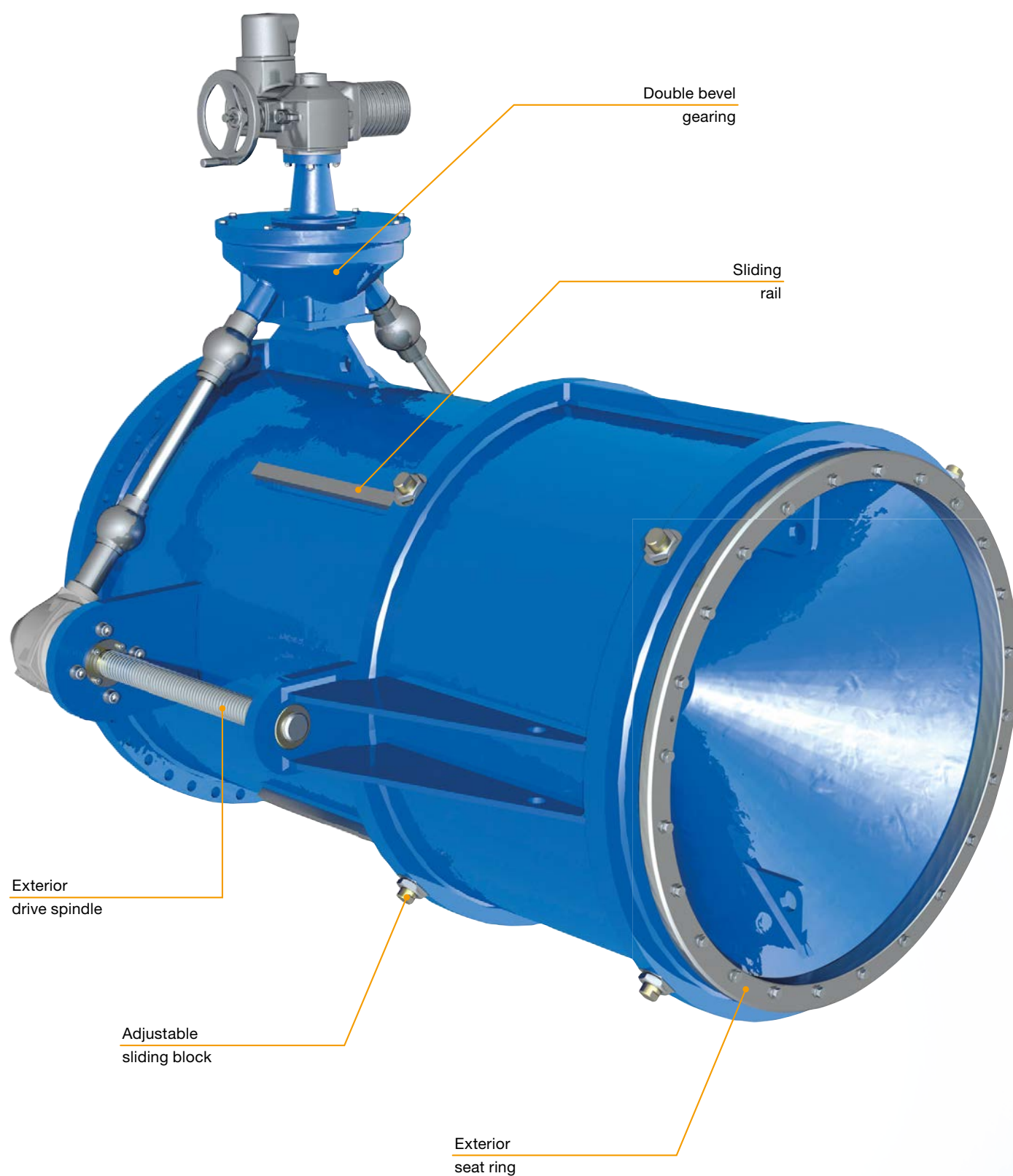
RAL GUTEZEICHEN

Interesting facts

- Seals replaceable without disassembling the valve from the pipeline.
- Retrofitting from manual operation to electric actuator can be easily done.

VAG KSS*plus* Hollow-Jet Discharge Valve

For safe release of the mighty power of water



Product features

- Reliable function and long service life due to cavitation-free discharge in all control positions.
- Intensive energy conversion through umbrella-like breaking of the jet stream.
- Very high discharge capacity and precise regulation with mostly linear regulation characteristics.
- Cylindrical sleeve with adjustable sliding block guides for better adjustment of the cylindrical sleeve to prevent sluggish operation. Furthermore, the adjustable sliding block guide prevents vibration, which has a positive effect on the life expectation of the valve.
- Reliable and robust sealing system with primary resilient and secondary metallic sealing, making the system particularly durable.
- No clamping power to impede movement and unhindered opening movement through long guide and exterior drive spindles.

Fields of application



Pressure management



Dams and hydropower

Technical details

- Nominal pressure:
 - Standard model: max. 100 mWC (10 bar) in combination with various connecting flanges
 - Greater nominal pressures can be supplied as special constructions upon request
- Nominal diameters DN 400 ... 2000
- Standard version: Sliding rail at the front and back, holding device, seat ring and jacket pipe on the cylindrical sleeve made of Cr-Ni steel, body as a welded construction made of steel S355J2 (1.0577)
- Coating: inside and outside epoxy coating (EN 14901-1+A1)

Interesting facts

- No risk of damage to the structure by vibration, as the flow is only disrupted at the front edge so that there are no partial separations of the flow inside the discharge valve.
- Easy to maintain, because the
 - sealing can be replaced without dismantling the valve,
 - exterior actuator parts are easy to maintain and replace.
- Very small actuator sizes and low power consumption due to low operating torques (largely relieved from pressure).



The Valve Experts

Die Armaturen-Experten

