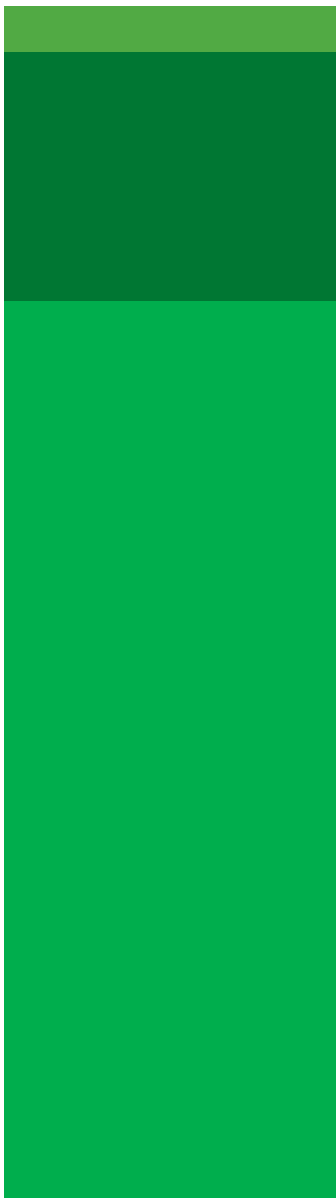


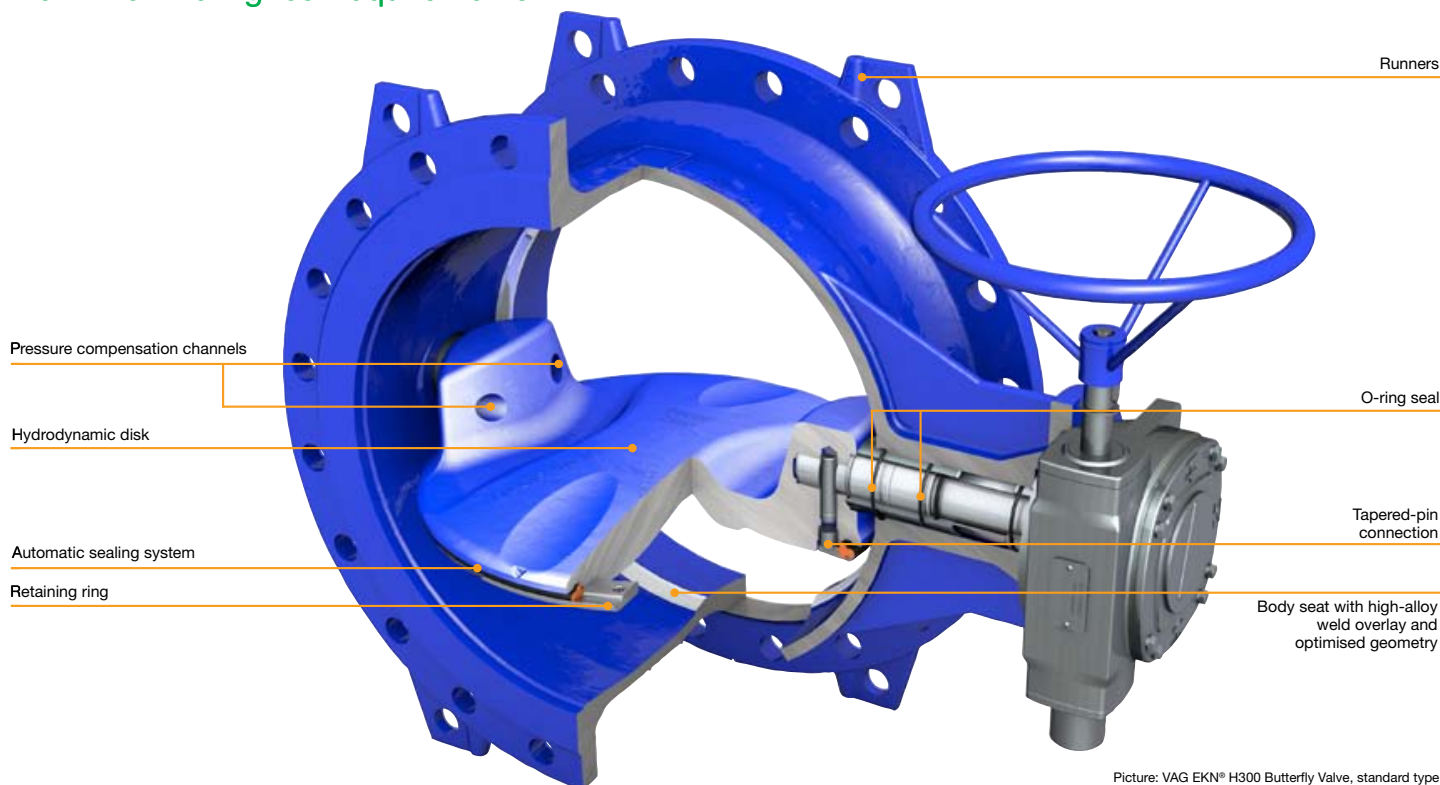
VAG Butterfly Valves





VAG EKN® Butterfly Valve – H-Series

New – for the highest requirements



Picture: VAG EKN® H300 Butterfly Valve, standard type

Technical details

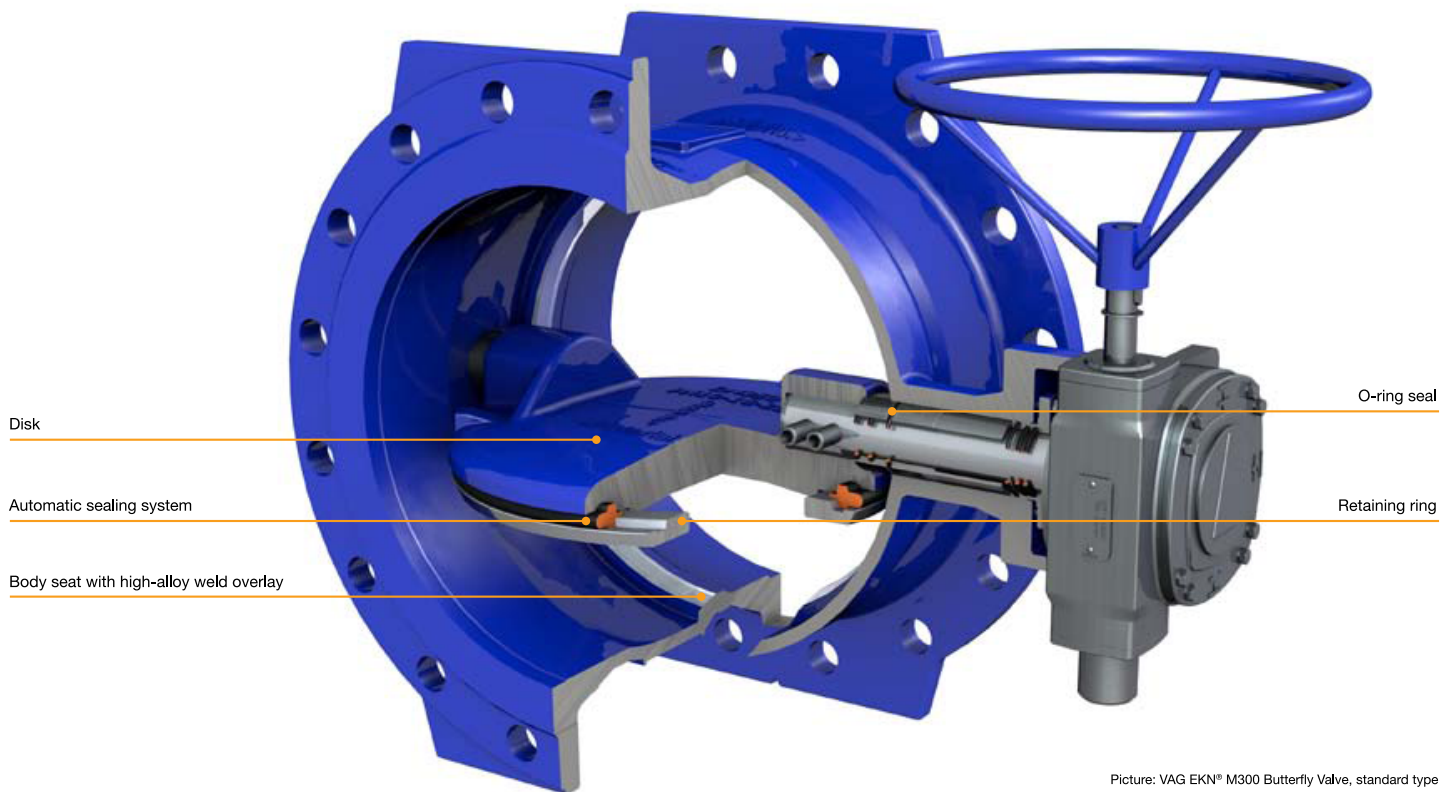
- Nominal pressures PN 10 / 16 / 25
- Nominal diameters DN 100...4000
- Fields of application: Water treatment, water distribution, power plants, dams / hydropower
- Standard version with AUMA worm gear, body and disk made of ductile iron EN-GJS-400-15 (GGG-40)
- Actuator types:
 - With manual actuator
 - With electric actuator
 - With hydraulic actuator
 - With pneumatic actuator
 - With VAG HYsec hydraulic brake-and-lift unit available as a safety valve
- Epoxy coating according to GSK quality guidelines
- Model varieties:
 - VAG EKN® H300 Butterfly Valve, standard and AWWA
 - VAG EKN® H400 Butterfly Valve, standard and AWWA
 - VAG EKN® H600 Butterfly Valve, for power plants
 - VAG EKN® H1100 Butterfly Valve, for dams/hydropower
 - VAG EKN® H1200 Butterfly Valve, turbine inlet

Product features

- Designed to meet the most stringent requirements.
- The innovative design with patented hydrodynamic disk, enlarged inner diameter and patented pressure compensation channels minimises pressure loss and turbulences in the outlet area. This reduces energy costs and the distance to downstream installations.
- The bearing bushes with self-lubricating properties ensure a long and reliable service life and low torques.
- The stainless-steel shafts are completely enclosed by double O-ring seals and closed bearing lugs – for the effective corrosion protection of the bearing.
- The wear-resistant, corrosion-proof and infiltration-proof seat with its optimised geometry and high-precision finish ensures the durability of the entire sealing system.
- The patented tapered-pin connection ensures the permanently backlash-free connection of the shaft and disk and reliable torque transmission. The complete enclosure of the tapered pins in the disk prevents corrosion.
- Automatic sealing system in the seat. The operating pressure supports the sealing effect – irrespective of the flow direction.
- Due to its moulded sealing profile, the profiled sealing ring is chambered between the disk and the retaining ring and so there is no risk of the profiled sealing being pulled out even at high gap velocities.
- Runners in the flange ensure optimum casting quality.
- The advantages of the double-eccentric bearing are:
 - Optimum movement of the profiled sealing ring into the seat,
 - Considerable reduction of the shear stress acting on the profiled sealing ring ensuring minimal wear of the profiled sealing ring and a high sealing force at low operating torques,
 - Relief of the load on the profiled sealing ring when the valve is in the open position,
 - The profiled sealing ring can be replaced with the valve in the open position.

VAG EKN® Butterfly Valve – M-Series

Proven quality



Picture: VAG EKN® M300 Butterfly Valve, standard type

Technical details

- Nominal pressures PN 6 / 10 / 16 / 25 / 40
- Nominal diameters DN 100...4000
- Fields of application: Water treatment, water distribution, power plants, dams / hydropower
- Standard version with worm gear; body and disk made of ductile iron EN-GJS-400-15 (GGG-40)
- Actuator types:
 - With manual actuator
 - With electric actuator
 - With hydraulic actuator
 - With pneumatic actuator
 - With VAG HYsec hydraulic brake-and-lift unit as a safety valve
- Epoxy coating according to GSK quality guidelines
- Model varieties:
 - VAG EKN® M300 Butterfly Valve, standard and short face-to-face length
 - VAG EKN® M600 Butterfly Valve, welded steel
 - VAG EKN® M700 Butterfly Valve, for air-cooled condensers
 - VAG EKN® M800 Butterfly Valve for operating temperatures of up to 200 °C
 - Other versions available upon request

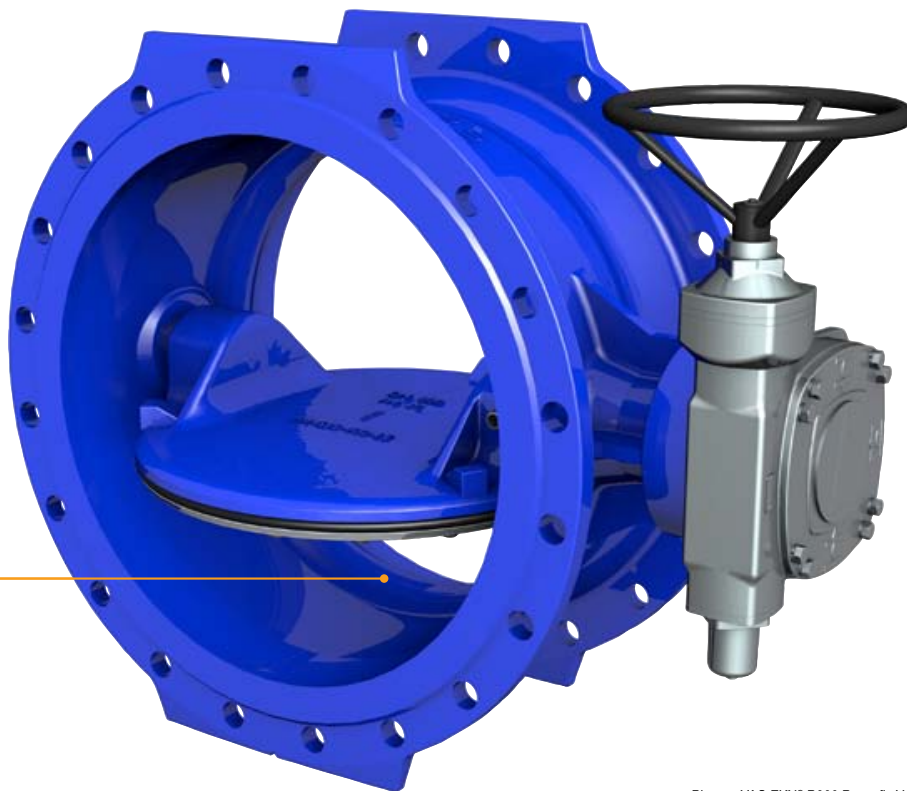
Product features

- Proven design for diverse requirements.
- The stainless-steel shafts are completely enclosed by double O-ring seals and closed bearing lugs – for effective corrosion protection of the bearing.
- Wear- and corrosion-resistant, infiltration-proof seat.
- Automatic sealing system in the seat. The operating pressure supports the sealing effect – irrespective of the flow direction.
- Due to its moulded sealing profile, the profiled sealing ring is chambered between the disk and the retaining ring, so there is no risk of the profiled sealing ring being pulled out even at high gap velocities.
- The advantages of the double-eccentric bearing are:
 - Optimum movement of the sealing ring into the seat,
 - Considerable reduction of the shear stress acting on the profiled sealing ring ensuring minimal wear of the profiled sealing ring and a high sealing force at low operating torques,
 - Relief of the load on the profiled sealing ring when the valve is in the open position,
 - The profiled sealing ring can be replaced with the valve in the open position.



VAG EKN® Butterfly Valve – B-Series

New as a basic version



Seat with epoxy coating

Picture: VAG EKN® B300 Butterfly Valve, standard type (example equipment)

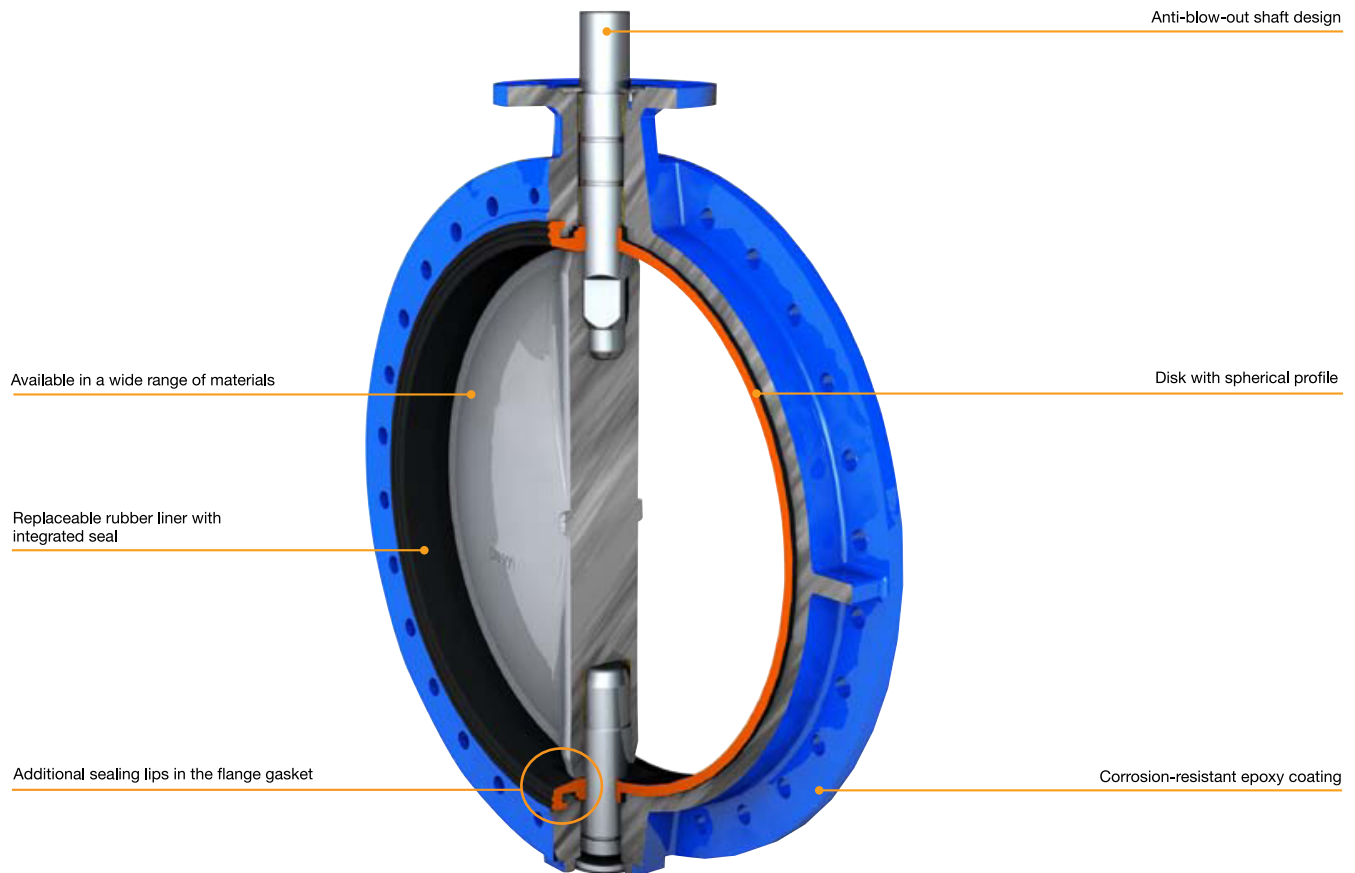
Technical details

- Nominal pressures PN 6 / 10 / 16
- Nominal diameters DN 200...1200
- Fields of application: Water treatment, water distribution
- Standard version with worm gear; body and disk made of ductile iron EN-GJS-400-15 (GGG-40)
- Actuator types:
 - With manual actuator
 - With electric actuator
- Epoxy coating

Product features

- Basic version for the most common water supply applications.
- Seat with epoxy coating.
- The stainless-steel shafts are completely enclosed by double O-ring seals and closed bearing lugs – for effective corrosion protection of the bearing.
- The self-lubrication properties of the bearing bushes ensure a long and reliable service life.
- Automatic sealing system in the seat. The operating pressure supports the sealing effect – irrespective of the flow direction.
- Due to its moulded sealing profile, the profiled sealing ring is chambered between the disk and the retaining ring and so there is no risk of the profiled sealing being pulled out even at high gap velocities.
- The advantages of the double-eccentric bearing are:
 - Optimum movement of the sealing ring into the seat;
 - Considerable reduction of the shear stress acting on the profiled sealing ring ensuring minimal wear of the profiled sealing ring and a high sealing force at low operating torques;
 - Relief of the load on the profiled sealing ring when the valve is in the open position,
 - The profiled sealing ring can be replaced with the valve in the open position.

VAG CEREX® M300-F Butterfly Valve



Technical details

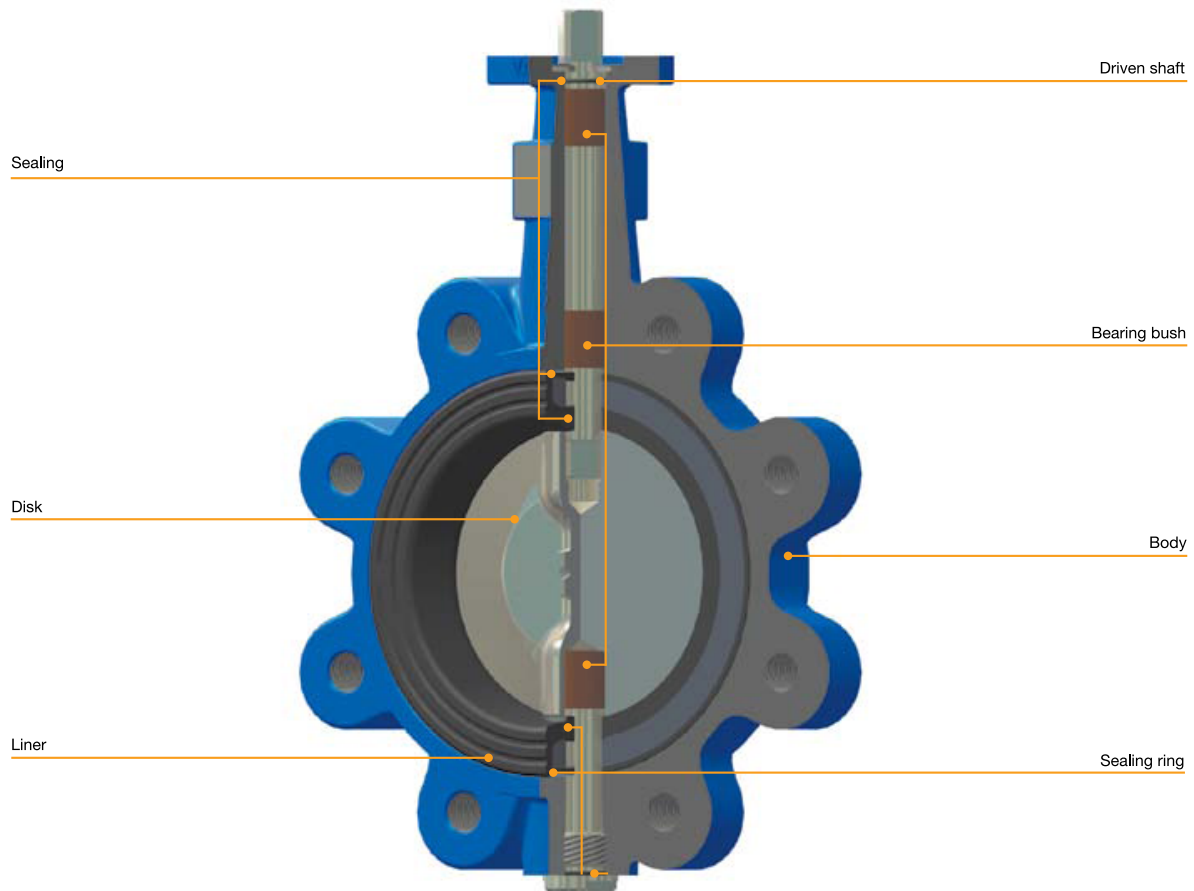
- Nominal pressures: PN 10 / 16
- Nominal diameters: DN 150...1400
- Field of application: Water
- Double-flanged design
- Short or long face-to-face length to EN 558-1 Basic Series 20 or 13 (DIN 3202)
- Standard version: With free shaft end and actuator flange to ISO 5211; body and disk made of ductile iron EN-GJS 400-15 (GGG-40), profiled seal made of EPDM
- Actuator types:
 - With notched hand lever (up to DN 200)
 - With gearbox and handwheel
 - With electric actuator
 - With pneumatic actuator
- Epoxy coating on the inside and outside
- Special versions:
 - Disk made of al-bronze, stainless steel or duplex steel
 - Special coatings available

Product features

- Variable use as end of-line valve in version Lug-Type or as connection valve installed between pipelines in version Wafer-Type.
- The square shaft connection and actuator flange acc. ISO 5211 enable the different actuator elements to be safely and directly connected.
- The shaft and the body cover are built as one component, creating a very stable construction.
- The two-shaft version ensures low pressure loss in open position of the disk.
- The shaft bearing by triple plastic slide bearings provides low operating torques and maximum stiffness even after many load cycles.
- Unattenuated, blow-out-proof drive shaft and triple external O-ring sealing ensure the valve operates reliably and safely.
- The interchangeable rubber liner with integrated lip sealing provide for a fail-safe operation in flared flanges, welded flanges, PE flanges and individual V-collar flanges.
- The liner with vulcanised retaining ring guarantees a stable seat sealing and permanently low operating torques.



VAG CEREX® 300 Butterfly Valve



Technical details

- Nominal pressures PN 10 / 16
- Nominal diameters DN 50...600
- Fields of application: Water, wastewater, gas
- Wafer- and Lug-Type
- Short face-to-face length
- Standard version: With bare shaft and actuator flange connection acc. to ISO 5211, body of ductile cast iron EN-GJS 400-15 (GGG-40), disk stainless steel 1.4408, liner EPDM
- Actuator types:
 - With notch hand lever
 - With worm gear and handwheel
 - With electric actuator
 - With pneumatic actuator
- Inside and outside epoxy coating
- Special versions:
 - Disk of ductile cast iron EN-GJS 400-15 (GGG-40)
 - epoxy coating
 - Liner NBR

Product features

- Variable use as end of-line valve in version Lug-Type or as connection valve installed between pipelines in version Wafer-Type.
- The square shaft connection and actuator flange acc. ISO 5211 enable the different actuator elements to be safely and directly connected.
- The shaft and the body cover are built as one component, creating a very stable construction.
- The two-shaft version ensures low pressure loss in open position of the disk.
- The shaft bearing by triple plastic slide bearings provides low operating torques and maximum stiffness even after many load cycles.
- Unattenuated, blow-out-proof drive shaft and triple external O-ring sealing ensure the valve operates reliably and safely.
- The interchangeable rubber liner with integrated lip sealing provide for a fail-safe operation in flared flanges, welded flanges, PE flanges and individual V-collar flanges.
- The liner with vulcanised retaining ring guarantees a stable seat sealing and permanently low operating torques.

Notizen



Reference projects

Staaken Waterworks, Germany

- VAG EKN® Butterfly Valves with FESTO pneumatic actuator
- VAG EKN® Butterfly Valves customised, with handwheel
- VAG CEREX® Butterfly Valves with FESTO pneumatic actuator
- VAG CEREX® Butterfly Valves with handwheel



Kleine Kinzig drinking water reservoir, Germany

- VAG CEREX® Butterfly Valves with FESTO pneumatic actuator
- VAG CEREX® Butterfly Valves with handwheel
- VAG EKN® Butterfly Valves with handwheel
- VAG EKN® Butterfly Valve with electric actuator



Leibis-Lichte Dam, Germany

- VAG EKN® Butterfly Valves with hydraulic and electric actuator



Brändbach Dam, Germany

- VAG EKN® Butterfly Valves with hydraulic and electric actuator



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info@vag-group.com

For detailed information about nominal diameters, nominal pressures and types the technical documentation KAT-A is authoritative • The pictures are non-binding