WOUTER WITZEL VALVE TECHNOLOGY

ECONAXE

DOUBLE ECCENTRIC HIGH PERFORMANCE BUTTERFLY VALVE

Easy automation acc. to ISO 5211

Pre-loaded shaft packing

Maintenance free, low friction SS/PTFE coated bearings

Wafer/lugged design with centering lugs

Hexagon between shafts and disc, safe transmission for high frequency of operation

End stop

Anti-static execution acc. to EN12266/F21

Slim body design

Technical Standards

- Quality assurance: ISO 9001
- Basic design: EN593
- Marking: EN 19, MSS SP 25
- Flange connections: EN 1092, ASME B16.5, MSS SP 44, JIS B 2220
- Face to face dimensions: according to EN558 basic series 20 (series 25 for DN350/14"), API 609 cat. B Class 150.
- Anti-blow out: EN 593 and API 609
- Anti Static: EN 736/3, API 609 and EN12266-F21
- Fire tested: EN ISO 10497 and LRS dry fire test procedure HDSC/ENS/TS
- Testing: API 598, ISO5208, EN12266
- Seat leakage rate: ISO 5208 Rate A (soft seal), API 598
- Part-turn actuator attachment: ISO 5211
- Pressure-temperature-rating: ASME B16.34, ISO 7005, API 609
- PED 97 / 23 / EC (category III) modul H

always in touch

WOUTER WITZEL VALVE TECHNOLOGY

ELASTOMER

- Metal vulcanised seal ring in NBR, EPDM or FPM (Viton)
- Temperature range depending on elastomers type
- Suitable for abrasive fluids, sea water, hydro carbons, etc.

RTFE

- Reinforced PTFE, filled with glass, carbon, graphite and a Helix coil energizer.
- Temperature range: -70°C to 300°C.
- RTFE is suitable for a multitude of applications and high cycle frequencies.

FIRE SAFE

- Reinforced PTFE, filled with glass, carbon, graphite and a Helix coil energizer. Additionally, a metal back ring assures tightness under fire conditions.
- Temperature range: -70°C to 300°C.
- Fire safe tested according to API 607 and ISO 10497.
- Inconel or SS 316 back up ring

METAL-TO-METAL

- Profiled, pre -loaded metal seal
- Seals in both directions
- For elevated temperatures, like steam, exhaust gases, etc.

DESIGN

Body	Wafer type Lugged type
Design Standard	EN 593 and API 609
End Connection	EN 1092 PN 6, 10, 16 ASME B16.5 cl. 150 MSS SP 44 cl. 150 JIS 5K, 10K, 16K
Size Range	DN 50 - 600, NPS 2"- 24"
Face to Face	EN 558-1/2 Series 20, API 609
Body Seal	Replaceable
Shaft Seal Design	Stuffing box
Driving Shaft acc. to ISO 5211	With indicator for position of the disc
Materials	Carbon Steel, St.Steel 316L min.2,8%Mo
Anti-Blow Out	EN 593 and API 609

TESTING PROCEDURES

Shell strength test	EN 12266-1, P10 ISO 5208 API 598
Shell tightness test	EN 12266-1, P11 ISO 5208 API 598
Seat tightness test	EN 12266-1, P12, ISO 5208, API 598
Operability test	EN 12266-2, F20 ISO 5208 API 598
Fire Safe	ISO 10497 and LRS dry fire test HDSC/ENS/TS

FUNCTIONAL CHARACTERISTICS

Application	On/off and regulating
Design pressure PS	Maximum 20 bar
Design temp. TS	-70°C to +300 °C
Flow velocity	5 m/s for liquids, 50 m/s for gases

MARKING & CERTIFICATION

Marking	EN 19, MSS SP 25
Certification	EN 10204 - 2.2, 3.1, 3.2
PED	Category III

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