# TRIPLE ECCENTRIC BUTTERFLY VALVE, AJ CRYOGENIC

## Metal seated, DN 80-2400, PN10-PN250/ASME cl.150-ASME cl.1500

**985/011-000, 985/021-000, 985/031-000, 985/041-000, 985/051-000**

**Energy** **Chemical Processing** **Oil and Gas** **Marine**

Triple eccentric butterfly valve, metal seated, available in Wafer, Lug, Flanged short pattern, Flanged long pattern and Buttwelded ends. Different body, disc and seal materials are available to meet specific requirements, ensuring optimal performance.
The valves are engineered with an advanced triple-offset geometry to ensure precise, low-torque operation even in demanding applications. The metal-to-metal sealing system provides reliable tightness with minimal wear, offering exceptional durability throughout the valve's service life. High-grade materials ensure long-term performance in harsh environments. The valves are designed for true zero-leakage capability and are suitable for bi-directional isolation and control in cryogenic conditions.

**Product description:**
AJ Cryogenic is a triple eccentric butterfly valve able to guarantee excellence in performance and a high degree of reliability over time for applications from -196°C to 400°C.

**Standards:**
- Design Standards: API 609 Cat. B, EN 593, ASME B16.34, EN12516
- Face-to-face dimension according to: EN 558, ISO 5752, API 609, ASME B16.10
- Flange drilling according to: ASME B16.5, ASME B16.47, EN1092-1, ISO 7005

**Tests/Approvals:**
- Testing: BS6364, ISO 28921-1, API 598, ISO 5208, EN 12266-1, IEC 60534-4, ISO 15848-2
- API 609 MONOGRAM
- Fire tested to: API 607, ISO 10497
- Cryogenic prototype testing: ISO 28921-2
- Compliance with: Pressure Equipment Directive 2014/68/EU, ATEX Directive 2014/34/EU
- SIL assessment: according to IEC 61508 (PFD values up to the SIL 3 range with full and partial stroking test)
- Fugitive Emissions: ISO 15848-1, IOGP S-562 & IOGP S-611, API 641
- For the Chinese market: SELO licence for the quality system, TSG for Primary and Cryogenic configurations

**Features:**
- Triple eccentric, friction-free sealing geometry minimizing wear on metal sealing surfaces
- Cavity-free body design preventing media entrapment
- Bi-directional or uni-directional tight shut-off capability
- Streamlined flow path engineered for high Cv and reduced pressure loss
- One-piece, high-strength stem for precise disc alignment
- Extended bonnet
- Solid metal seal ring configurations for demanding temperature and pressure conditions
- Integral anti-blowout stem system
- Low fugitive-emission packing system
- Intrinsically fire-safe design
- Intrinsically antistatic construction ensuring safe operation in potentially explosive atmospheres
- Special executions include NACE-compliant materials

**Accessories:**
Gearbox, pneumatic, hydraulic and electric actuators, position indicators, solenoid valves, positioners

Wafer
STV 985/011-000

Lug
STV 985/021-000

Flanged short pattern
STV 985/031-000

Flanged long pattern
STV 985/041-000

Buttwelded ends
STV 985/051-000

SIL

CE

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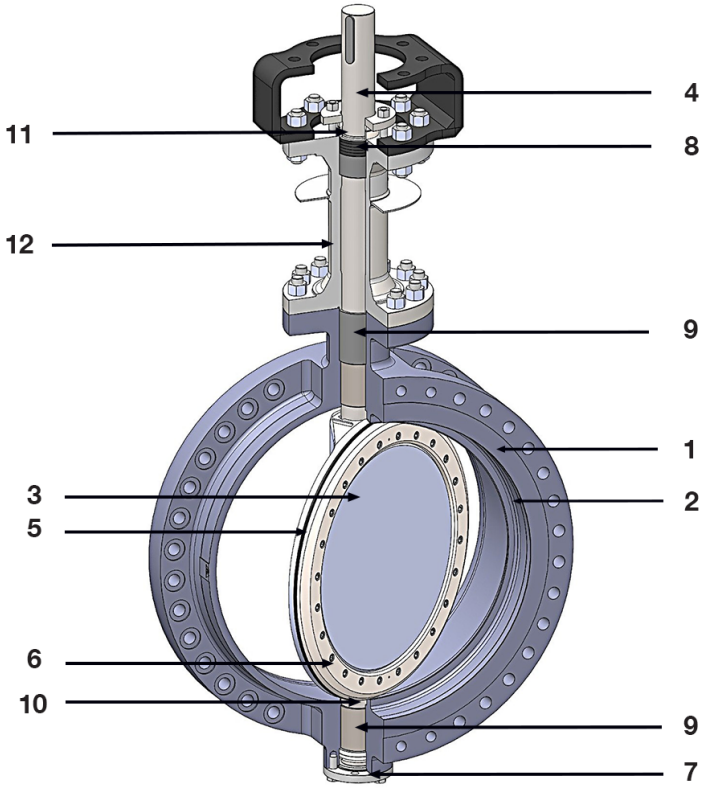


**Components:**

| | | | |
|---|---|---|---|
| 1. Body | Stainless steel | 7. Bottom cover | Stainless steel |
| 2. Seat | Hard facing: ErCoCr-E | 8. Packing | Graphite with reinforcement (Stainless steel or Inconel) |
| 3. Disc | see body materials | 9. Radial bearings | Stainless steel |
| 4. Shaft | Austenitic stainless steel | 10. Axial bearing | see radial bearings |
| 5. Seal ring (solid) | Stainless steel | 11. Anti blowout gland | Stainless steel |
| 6. Disc flange | Stainless steel | 12. Extended bonnet | Stainless steel |