

CRYOGENIC BALL VALVE

Top Entry Cryogenic Floating Ball Valve

REF **EFC-484** ISSUED 06 Jul 2026

SPECIFICATIONS

Size	DN15 to DN600
Pressure	Class 150 to Class 2500
Temperature	-196°C to 150°C
Media	LNG, LPG, natural gas, oil, gas

ACTUATION

- Manual
- Pneumatic
- Electric

APPLICATIONS

- LNG handling
- LPG handling
- Low-temperature pipeline service
- Long-distance oil and gas pipelines



Install, operate and maintain in accordance with the manufacturer's manual supplied with the product.

MATERIALS

Body	Stainless Steel, Alloy Steel	Seat sealing surface	PCTFE
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FEATURES

- Top-entry design allows online disassembly and maintenance without removing valve from pipeline
- Valve body cast or forged as a single unit, ensuring integrity of pressure-bearing parts
- Extended bonnet design with controlled stem-to-neck clearance to reduce cold flow migration and prevent packing icing
- Outer annular long-neck groove increases cooling dissipation area
- Adjustable spring-preloaded seat pushes seat against ball under spring and medium pressure, maintaining seal at low temperature and low pressure
- PCTFE seat sealing material retains elasticity under ultra-low temperature conditions (on selected products)
- Primary stem seal formed by lip-type sealing ring
- Secondary stem seal formed by compressed stem packing
- Self-centring pressure cover and pressure sleeve design on selected products to prevent imbalance from uneven loading

OPTIONS & NOTES

- Some products use imported PCTFE and other materials for the valve seat sealing surface
- Some products adopt a self-centring design for the pressure cover and pressure sleeve
- Operator options include manual, pneumatic, electric, etc.