

BALL VALVE

Rising Stem Ball Valve

REF **EFC-450** ISSUED 06 Jul 2026

SPECIFICATIONS

Size	DN50 to DN600
Pressure	Class 150 to Class 2500
Temperature	-196°C to 538°C
Media	Petroleum, Chemical media, Media with particulates (sand, short fibres), Oil, Gas, Natural gas, Water

ACTUATION

- Manual handwheel — Low torque; gearbox not required except in very large sizes
- Pneumatic
- Electric

APPLICATIONS

- Exhaust
- Fluid transfer
- Pipeline isolation
- Bypass
- Product segmentation
- Emergency shutdown
- High switching frequency service
- High-temperature zero-leakage service
- Petroleum industry
- Chemical industry
- Metallurgy
- Light industry
- Power stations
- Urban water supply
- Cryogenic service
- Long-distance oil and gas pipelines



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

MATERIALS

Body **Carbon Steel, Stainless Steel, Alloy Steel** Ball sealing surface **Hard alloy overlay**

FEATURES

- Ball lifts away from seat before rotation, eliminating ball-to-seat friction during opening and closing
- Zero downstream leakage achieved by single static seat design
- Single seat design avoids pressure build-up associated with double-seated designs
- Mechanical wedge seal: inclined surface at base of stem creates wedge force to maintain tight ball-to-seat contact
- Self-cleaning: when ball is off seat, medium flows 360° around the sealing surface removing debris
- Top entry design allows inline inspection and maintenance after pipeline depressurisation
- Dual stem guides ensure smooth linear travel and rotation along guide pins
- Injectable packing port on stem for online emission control and maintenance (applicable to models with sealed cover)
- All-metal, fire-resistant construction
- Hard alloy overlay on ball sealing surfaces, polished for seal integrity
- Low operating torque; small handwheel sufficient for most sizes without gearbox
- Full-bore and reduced-bore options both maintain high Cv values when open
- NACE compliant for corrosive and sulphide stress cracking environments

OPTIONS & NOTES

- Gearbox required for very large sizes
- Injectable packing applicable to all models with a sealed cover
- Technical specification available as download (content not provided on page)