

BUTTERFLY VALVE

Double Eccentric Butterfly Valve

REF **EFC-327** ISSUED 05 Jun 2026

SPECIFICATIONS

Size	DN200–DN4000
Pressure	PN10–PN40
End connection	flanged (EN 1092) / flanged (ASME B16.5) / flanged (ASME B16.1) / flanged (AWWA C207)
Face-to-face	EN 558-1 / ISO 5752 series 14, EN 558-1 / ISO 5752 series 13
Temperature	0°C to 80°C
Media	potable water, sea water, TSE water, low-corrosive liquid

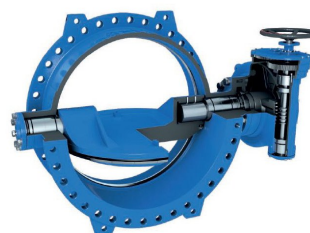


ACTUATION

- gearbox with handwheel
- electric actuator — ISO 5210 top flange — ISO 5210

STANDARDS

Design	EN 593, BS5155, DIN3354
Test	EN 12266-1



APPROVALS & CERTIFICATIONS

- EN1074-1 & EN1074-2 type approval (For use with drinking water)
- WRAS (Drinking water)

COATINGS & LINING

- Fusion bonded epoxy coating, min. thickness 300 micron, colour RAL5005/5015/5017

APPLICATIONS

- Potable water
- Sea water

- TSE water
- Low-corrosive liquids
- Throttling service
- Applications requiring valve actuation after long periods of inactivity
- Full vacuum service

MATERIALS

gear housing	Ductile Iron	key	Stainless Steel
upper shaft	Duplex Stainless Steel	packing gland	Ductile Iron
o ring	Rubber	shaft bearing	Bronze
body	Ductile Iron	body seat	Stainless Steel
retainer ring	Stainless Steel	disc seal ring	Rubber
taper pin	Stainless Steel	disc	Ductile Iron
lower shaft	Duplex Stainless Steel	shaft cover	Ductile Iron
seat	Stainless Steel	stem	Stainless Steel
bonnet	Ductile Iron		

FEATURES

- Stainless steel welded and finished body seat for corrosion and wear resistance
- Streamlined low-profile disc design verified by finite element analysis for lower flow resistance
- Seal gasket at shaft bearing/disc joint, double O-ring on shaft bearing, and closed disc eyes forming dry operating condition for shaft and shaft seal
- Anti-blowout shaft design
- Disc to shaft connection by taper pin or key (optional)
- Self-lubricating bearings in bronze or stainless steel lined PTFE to reduce shaft friction and operating torque; bearings keep disc centred and prevent axial movement
- Multiple O-rings in shaft sealing system; O-rings on packing gland and shaft cover replaceable without removing valve from pipeline
- Suitable for full vacuum service conditions
- T-profiled resilient seal ring secured on disc by retainer ring and bolts; bidirectional sealing; adjustable or replaceable on site without special tools
- External locking device on non-drive shaft end to allow gearbox removal with valve in service
- ISO 5210 top flange for electric actuator coupling
- Fusion bonded epoxy coating internally and externally, 250 micron thickness (other coatings/linings available on request), colour RAL5005/5015/5017
- Leakage rate Class A (zero leakage) in both directions per EN 12266-1
- 100% tested before delivery
- Double-flanged end connections
- Double-eccentric (triple-offset) disc configuration visible in sectional drawing
- Worm gearbox actuator with handwheel
- Open/Close indicator on gearbox
- 18-part numbered sectional assembly (parts 1–18 labelled on sectional diagram)

OPTIONS & NOTES

- Other materials such as carbon steel, st. steel, duplex SS, aluminum bronze are available on request.
- Different coating/lining is available as special request.

- Disc to shaft connection by means of taper pin or key (optional).