

BUTTERFLY VALVE

Rubber lined butterfly valve

REF **EFC-325** ISSUED 05 Jun 2026

SPECIFICATIONS

Size	DN300–DN3600
Pressure	PN6–PN40
Face-to-face	EN558-1/ISO5752 Series 14, EN558-1/ISO5752 Series 13, AWWA C504
Temperature	null°C to null°C
Media	sewage, chemical fluids, seawater, de- salination process fluids, corrosive flu- ids

STANDARDS

Design	BS EN593, AWWA C504, API 609
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APPROVALS & CERTIFICATIONS

- EN1092 / ISO7005 (flange connection)
- EN558-1 / ISO5752 series 13 or 14 (face-to-face length)
- ISO 5210 (gearbox/actuator flange connection)
- WRAS (Water Regulations Advisory Scheme) approval indicated



COATINGS & LINING

- Internal ebonite lining, thickness 3 mm or 5 mm, Shore D hardness 75±5
- External coating system C5 per EN ISO 12944-2: Option 1 — Epoxy zinc-rich primer 60µm + Epoxy micaceous iron intermediate paint 120µm + Acrylic polyurethane finish paint 60µm; Total DFT 240µm
- External coating system C5 per EN ISO 12944-2: Option 2 — Epoxy glass flake primer 80µm + Epoxy glass flake paint two layers 160µm; Total DFT 240µm

APPLICATIONS

- Sewage
- Chemical industry
- Seawater treatment
- Desalination

MATERIALS

body	Ductile Iron, Carbon Steel Casting	disc	Ductile Iron, Carbon Steel Casting
shaft	Martensitic Stainless Steel, Duplex Stainless Steel	disc seal ring	Elastomer
retainer ring	Carbon Steel, Austenitic Stainless Steel	shaft bearing	Aluminium Bronze
o ring	Elastomer	pin	Martensitic Stainless Steel
key	Martensitic Stainless Steel	packing gland	Carbon Steel
connection flange	Carbon Steel	end cover	Carbon Steel
fasteners	Austenitic Stainless Steel, Duplex Stainless Steel	internal lining	Elastomer
Disc seal ring	Natural hard rubber (vulcanised)	Body lining	Natural hard rubber (vulcanised)
Shaft	Stainless steel (inferred from dry shaft / corrosion-resistant design)	seat	Elastomer
stem	Stainless Steel		

FEATURES

- Ebonite lining thickness 3 mm or 5 mm forming a continuous covering layer isolating ferrous substrate from service medium
- Substrate sand-blasted to cleanliness Sa 2.5 per ISO 8501 and roughness medium G per ISO 8503 prior to lining
- Ebonite vulcanisation processed with hot air or steam in vulcanisation kettle
- Lining quality verified by visual inspection, electric spark detection (holidays/pinholes/cracks), adhesion test and hardness test
- Ebonite hardness Shore D 75±5
- Eccentric disc design
- Replaceable disc seal ring
- All internal and external fasteners in stainless steel grade 316L or duplex stainless steel
- Suitable for installation in vertical or horizontal position
- Lifting eye/lifting hook provided for vertical or horizontal lifting
- Disc fully vulcanised with natural hard rubber
- Body fully vulcanised with natural hard rubber
- L-profiled disc seal ring fixed by retainer; bi-directional sealing; replaceable without special tools
- Dry shaft design to prevent corrosion from service medium
- Gearbox equipped with ISO 5210 flange connection for actuator; F10 standard specified
- Multiple shaft O-rings for sealing; adjustable and replaceable
- Streamlined low-profile disc for reduced flow resistance
- Low-torque gearbox; operable by handwheel or actuator

OPTIONS & NOTES

- Other Material are available on request