

CHECK VALVE

Double plate Flange Check Valve

REF **EFC-262** ISSUED 05 Jun 2026

SPECIFICATIONS

Size	DN50–DN1000
Pressure	PN10–PN40
End connection	flanged (DIN) / flanged (DIN) / flanged (DIN) / flanged (ANSI) / flanged (JIS)
Face-to-face	API 594
Temperature	null°C to 150°C
Media	Fresh water, Sewage, Sea water, Air, Vapour, Food, Medicine, Oils, Acids, Alkalis

ACTUATION

- manual
- worm gear
- pneumatic
- electric

STANDARDS

Design	API 594
Test	API 598



APPROVALS & CERTIFICATIONS

- LR (Lloyd's Register)
- ECM (Ente Certificazione Macchine)
- ISO
- EAC
- CE
- Bureau Veritas
- ACS (Attestation de Conformité Sanitaire)
- WRAS Approved Product

COATINGS & LINING

- Corrosion-resistant coating (details not specified)

APPLICATIONS

- Water supply
- Wastewater treatment
- Petrochemical
- Power generation
- HVAC
- Marine
- Chemical
- Industrial

MATERIALS

body	Cast Iron, Ductile Iron, Carbon Steel, Stainless Steel	plate	Ductile Iron, Carbon Steel, Stainless Steel
spring	Stainless Steel	hinge pin	Stainless Steel
stop pin	Stainless Steel	body bearing	PTFE
spring bearing	PTFE	eye bolt	Carbon Steel
body seat	Elastomer	disc	Ductile Iron, Carbon Steel, Stainless Steel
seat	Elastomer	stem	Stainless Steel

FEATURES

- Dual-plate spring-loaded design providing low cracking pressure
- Flange body design with relatively short face-to-face dimension
- Non-slam closing action minimises water hammer and vibration
- Supports horizontal and vertical (upward flow) installation
- Retainerless wafer style construction
- Each valve tested to API 598 prior to shipment
- Double-door (dual-plate) wafer check valve design
- Flanged body with bolt-hole pattern for PN10 and PN16 flange drilling
- Spring-loaded disc return mechanism visible in sectional diagram
- Part 1: disc (lower half)
- Part 2: spring/hinge pin assembly
- Part 3: upper disc
- Part 4: hinge pin
- Part 5: body
- Part 6: seat/seal ring
- Part 7: body flange face (front view)
- Dimensions shown: L (face-to-face), D (flange OD), D1 (bolt circle diameter), D2 (bore/inner diameter), z-d (number of bolt holes and hole diameter)
- Disc material variant visible: rubber-lined discs (images 0-1) and stainless steel discs marked CF8M (image 2)

OPTIONS & NOTES

- Custom coatings, materials, and pressure ratings available to match specific project requirements.
- Sizes available from DN50 to DN600 or more.
- Operating mode options: manual, worm gear, pneumatic, electric, etc.

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SECTION Technical drawing REF EFC-262

