

CHECK VALVE

Tilting Disc Check Valve

REF **EFC-324** ISSUED 05 Jun 2026

SPECIFICATIONS

Size	DN200–DN1600
Pressure	PN10–PN25
End connection	flanged (EN1092-2 / BS4504)
Face-to-face	EN558 series 14
Temperature	null°C to null°C
Media	Water, Neutral liquids

ACTUATION

- lever and counterweight — Adjustable counterweight; valve shafts protrude on both sides of body — External, mounted on shaft protruding both sides of body
- hydraulic damper — External hydraulic damper enabling two-step quick/slow closing action — External, on request

STANDARDS

Design	EN12334, BS EN12334, EN558-1
Test	EN 12266-1 Class A, EN1074

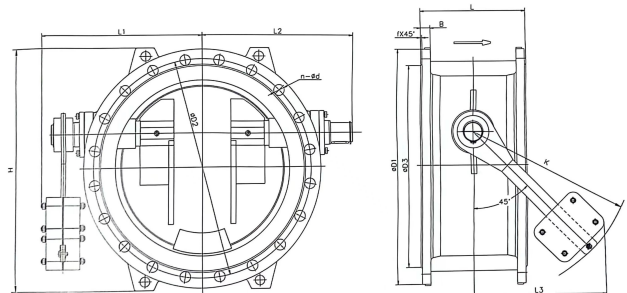
APPROVALS & CERTIFICATIONS

- EN12334 (design standard)
- EN558-1 series 14 (face to face length)
- ISO 5752 series 14 (face to face length)
- DIN 3202 F4 (face to face length)
- EN1092-2 (flange dimensions and drilling)
- ISO 7005-2 (flange dimensions and drilling)



TILTING DISC CHECK VALVE

Design standard: EN12334
Face to face length acc. to EN558-1 series 14(ISO 5752 series 14, DIN 3202 F4)
Flange dimensions and drilling acc. to EN1092-2 (ISO 7005-2)



COATINGS & LINING

- FBE (Fusion Bonded Epoxy), minimum 250 microns

APPLICATIONS

- Pump discharge in piping systems
- Main transmission pipelines
- Irrigation systems
- Fire fighting

MATERIALS

body	Ductile Iron	disc	Ductile Iron
shaft	Stainless Steel	disc seal ring	Rubber
o ring	Rubber	seal bush	Stainless Steel
bearing bush	Stainless Steel	bearing	Stainless Steel + PTFE
retainer ring	Stainless Steel	pin	Stainless Steel
key	Stainless Steel	end cover	Ductile Iron
lever	Carbon Steel	counterweight	Cast Iron
Counterweight	Cast Iron – GJL250 (GG25)	Lever	Carbon Steel – 1.0038 (S235JR)
End Cover	Ductile Iron – GJS500-7 (GG650), GJS400-15 (GGG40)	Seal Bush	Stainless Steel – 1.4301 (SS304)
Shaft	Stainless Steel – 1.4021 (SS420)	Bearing Bush	Stainless Steel – 1.4301 (SS304)
Bearing	Stainless Steel Base – 1.4301 (SS304) + PTFE	O Ring	Rubber – EPDM, NBR
Body	Ductile Iron – GJS500-7 (GG650), GJS400-15 (GGG40)	Retainer Ring	Stainless Steel – 1.4301 (SS304)
Disc Seal Ring	Rubber – EPDM, NBR	Disc	Ductile Iron – GJS500-7 (GG650), GJS400-15 (GGG40)
Pin	Stainless Steel – 1.4021 (SS420)	Key	Stainless Steel – 1.4021 (SS420)
seat	Rubber	stem	Stainless Steel

FEATURES

- Double eccentric disc design
- Rubber-to-metal sealing system
- Two-step closing action: quick action and slow action
- Prevents reverse flow and water hammer on pump stoppage
- Replaceable disc seal ring and shaft O-rings; no special tools required
- Metal seal ring on body for extended service life
- Self-lubricating shaft bearing
- Large eccentricity for quick closing
- Shaft protrudes both sides of body for lever and counterweight mounting
- Adjustable counterweight to adapt to individual working conditions
- Vertical and horizontal pipeline installation supported
- Short body, compact volume
- Automatically operated; no external power unit required
- Size range: DN100 to DN2000
- Pressure range: PN10 to PN16
- Coating: fusion bonded epoxy, minimum thickness e250 micron
- Suitable medium: water and low-corrosive liquids
- Suitable temperature: -10 to 80°C
- Large eccentric disc design providing large opening degree
- T-profiled disc seal ring fixed by retainer, bi-directional sealing, tool-free replacement
- Stainless steel base with PTFE bearing for free operation without seizure
- Multiple shaft O-rings for long-life shaft sealing
- Streamlined low-profile disc for reduced flow resistance
- Stainless steel welded and finished body seat
- Disc open position at 45° to pipe axis (as shown in side-view drawing)
- Counterweight and lever arrangement for controlled closing

OPTIONS & NOTES

- Other size and pressure are available as special request
- Other materials are available as special request
- The external hydraulic damper is available as special request, or individual working conditions
- MATERIAL* (asterisk noted in table header — possible note not elaborated)