

CHECK VALVE

Ball type Non-Return Valve

REF **EFC-330** ISSUED 05 Jun 2026

SPECIFICATIONS

Size	DN400
Pressure	PN10–PN16
End connection	flanged (EN1092-2 / BS4504) / threaded (BSP inside screwed)
Face-to-face	EN558 Table 2 series 48 (DIN3202-F6)
Media	wastewater, sewage, mud, neutral liquid, non-potable water

STANDARDS

Design	EN12050-4, EN 12334
Test	EN 12266-1

APPROVALS & CERTIFICATIONS

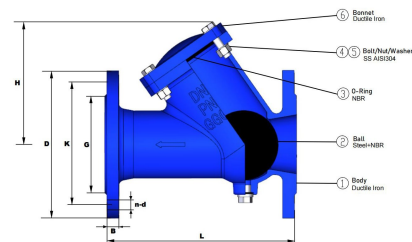
- EN1092-2 PN10
- EN1092-2 PN16

COATINGS & LINING

- Inside and outside epoxy coating

APPLICATIONS

- Industrial and domestic sewage pipe networks with high viscosity and suspended solids
- Wastewater and sewage
- Industrial applications
- Power plants and process industry



MATERIALS

body	Ductile Iron	ball	Steel / NBR
coating	Epoxy	Body	Ductile Iron (GGG50)
Ball	Steel + NBR	O-Ring	NBR
Bonnet	Ductile Iron	disc	other

FEATURES

- Automatically opened and closed by medium flow force
- Full bore, 100% flow area, full waterway, low flow resistance
- Self-cleaning sinking nitrile-coated ball; no risk of impurities becoming stuck on the ball
- Silent closing, no water hammer
- Suitable for horizontal or vertical installation
- Compact and light weight design
- Hollow steel ball lined with rubber layer for sealing elasticity and structural strength
- Cast ductile iron body with inside and outside epoxy coating
- Minimum backpressure: 0.5 bar
- Threaded ends (BSP inside screwed) available for DN80 and smaller
- 100% testing before packing and delivery
- Low pressure drop
- Y-pattern ball check valve (flanged and screwed-end variants)
- Flanged range: DN40–DN500; screwed range: DN25–DN80
- Suitable for horizontal installation (bonnet angled downward) and vertical installation (flow upward only)
- Bonnet bolt-on design allowing in-line maintenance
- Body casting marked with DN, PN, and material grade (GGG50)
- Performance: DN50 flanged: fully open pressure loss approx. 0.1 M.W.C. at ~10 m³/h; approx. 5 M.W.C. at ~50 m³/h
- Performance: DN65 flanged: fully open pressure loss approx. 0.1 M.W.C. at ~15 m³/h; approx. 5 M.W.C. at ~65 m³/h
- Performance: DN80 flanged: fully open pressure loss approx. 0.1 M.W.C. at ~20 m³/h; approx. 5 M.W.C. at ~90 m³/h
- Performance: DN100 flanged: fully open pressure loss approx. 0.1 M.W.C. at ~30 m³/h; approx. 5 M.W.C. at ~130 m³/h
- Performance: DN125 flanged: fully open pressure loss approx. 0.1 M.W.C. at ~50 m³/h; approx. 5 M.W.C. at ~200 m³/h
- Performance: DN150 flanged: fully open pressure loss approx. 0.1 M.W.C. at ~70 m³/h; approx. 5 M.W.C. at ~300 m³/h
- Performance: DN200 flanged: fully open pressure loss approx. 0.1 M.W.C. at ~120 m³/h; approx. 5 M.W.C. at ~550 m³/h
- Performance: DN250 flanged: fully open pressure loss approx. 0.1 M.W.C. at ~200 m³/h; approx. 5 M.W.C. at ~900 m³/h
- Performance: DN300 flanged: fully open pressure loss approx. 0.1 M.W.C. at ~300 m³/h; approx. 5 M.W.C. at ~1300 m³/h
- Performance: DN350 flanged: fully open pressure loss approx. 0.1 M.W.C. at ~400 m³/h; approx. 5 M.W.C. at ~1800 m³/h
- Performance: DN400 flanged: fully open pressure loss approx. 0.1 M.W.C. at ~550 m³/h; approx. 5 M.W.C. at ~2500 m³/h
- Performance: DN500 flanged: fully open pressure loss approx. 0.1 M.W.C. at ~800 m³/h; approx. 5 M.W.C. at ~4000 m³/h
- Performance: DN32 screwed: minimum opening pressure loss approx. 0.4 M.W.C. at ~8 m³/h; approx. 5 M.W.C. at ~21 m³/h
- Performance: DN40 screwed: minimum opening pressure loss approx. 0.4 M.W.C. at ~10 m³/h; approx. 5 M.W.C. at ~40 m³/h
- Performance: DN50 screwed: minimum opening pressure loss approx. 0.4 M.W.C. at ~15 m³/h; approx. 5 M.W.C. at ~55 m³/h
- Performance: DN65 screwed: minimum opening pressure loss approx. 0.4 M.W.C. at ~25 m³/h; approx. 5 M.W.C. at ~90 m³/h
- Performance: Valve fully open at flow velocity 1–1.5 m/s; closed valve back pressure 0.5 bar
- Performance: Mounting distance downstream of pumps and elbows minimum 5 × DN

OPTIONS & NOTES

- Threaded ends (BSP inside screwed) are available for size DN80 and smaller.
- Normally with double flange ends.
- Minimum backpressure: 0.5bar