

CHECK VALVE

Rubber Flap Check Valve

MODEL **DIN3202-F6 / BS5153** REF **EFC-332** ISSUED **05 Jun 2026**

SPECIFICATIONS

End connection **flanged (EN-1092-2) / flanged (BS4504)**

Media **Potable water, Neutral liquids, Fluids containing suspended solids**

STANDARDS

Design **DIN3202-F6, BS5153, BS EN12334, EN16767**

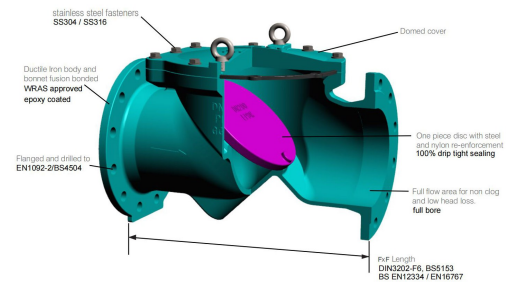
Test **EN-12266-1 Class A**

APPROVALS & CERTIFICATIONS

- WRAS (Materials approved for drinking water)
- EN1092-2
- BS4504
- DIN3202-F6
- BS5153
- BS EN12334
- EN16767

APPLICATIONS

- Water supply and drainage systems (horizontal installation)
- Pump discharge to prevent backflow and water hammer
- Bypass pipes on reservoir inlet/outlet to prevent backflow into supply system
- Main transmission pipelines
- Irrigation systems
- Fire fighting
- Pump stations



MATERIALS

body	Ductile Iron	flapper	Carbon Steel + Elastomer
gasket	Elastomer	cover	Ductile Iron
shaft pin	Stainless Steel	o ring	Elastomer
Body	Ductile Iron GJS500-7	Flapper	WCB + EPDM, WCB + NBR
Gasket	NBR, EPDM	Cover	Ductile Iron GJS500-7
Shaft Pin	SS304, SS316	O-Ring	NBR, EPDM
Disc reinforcement	Steel (WCB), Nylon reinforced	Internal coating	WRAS approved fusion-bonded epoxy
disc	Carbon Steel + Elastomer	seat	Elastomer
stem	Stainless Steel	bonnet	Ductile Iron

FEATURES

- Rubber seat, zero leakage
- Rubber lining for abrasion resistance
- 100% flow area, full waterway for low headloss
- Suitable for horizontal installation
- One-piece disc, precision moulded EPDM
- Internal steel reinforcement disc for positive closure
- Non-slam, non-clogging operation
- No counterweight required
- Disc service life rated to 1 million cycles
- 100% hydraulic testing before delivery
- Domed cover design
- Full bore flow area for low head loss and non-clog operation
- One-piece disc with steel and nylon reinforcement providing 100% drip-tight sealing
- Disc opens to 45° from seat and swings to 35° open position at 100% flow
- Drain plug fitted at bottom of body
- Lifting eyebolts on cover
- Body and bonnet fusion bonded (bolted cover with gasket seal)
- WRAS approved EPDM rubber available upon request
- Performance: DN50: ~0.08 m headloss at ~5 m³/h (approx. V=1 m/s)
- Performance: DN50: ~3.5 m headloss at ~20 m³/h (approx. V=6 m/s)
- Performance: DN100: ~0.05 m headloss at ~50 m³/h (approx. V=2 m/s)
- Performance: DN100: ~1.0 m headloss at ~100 m³/h (approx. V=4–6 m/s)
- Performance: DN200: ~0.05 m headloss at ~200 m³/h (approx. V=2 m/s)
- Performance: DN300: ~0.05 m headloss at ~500 m³/h (approx. V=2 m/s)
- Performance: DN500: ~0.03 m headloss at ~2000 m³/h (approx. V=1 m/s)
- Performance: DN600: ~1.5 m headloss at ~10000 m³/h (approx. V=6 m/s)
- Performance: Velocity reference lines shown at 1, 2, 4, and 6 m/s across all sizes DN50–DN600

OPTIONS & NOTES

- WRAS approved material for drinking water upon request.
- The check valve is generally suitable for cleaning media, and should not be used for media with solid particles and high viscosity.