

GATE VALVE

Large Bore Metal Seated Gate Valve

REF **EFC-329** ISSUED 05 Jun 2026

SPECIFICATIONS

Size	DN1000–DN2000
Pressure	PN6–PN16
End connection	flanged (EN1092-2) / flanged (BS 4504) / flanged (DIN2501)
Face-to-face	EN558-1 series 3
Temperature	-10°C to 80°C
Media	drinking water, raw water, treated water, wastewater, cooling water, TSE water, sewage, low-corrosive liquids



ACTUATION

- manual bevel gearbox — with handwheel or chainwheel
- manual spur gearbox — with handwheel or chainwheel; gearbox ready for connection to electric actuator
- electric actuator — AUMA electric actuator referenced in brief description

STANDARDS

Design	EN1171, DIN3202 F4, BS 5163
Test	EN12266-1

APPROVALS & CERTIFICATIONS

- WRAS (Fusion bonded epoxy coating non-toxic to potable water)
- NSF61 (Fusion bonded epoxy coating non-toxic to potable water)

COATINGS & LINING

- Fusion bonded epoxy coating, non-toxic to potable water, WRAS/NSF61 approved, DFT 250µm

APPLICATIONS

- drinking water
- raw water
- treated water
- wastewater
- cooling water
- TSE water
- sewage

MATERIALS

body	Ductile Iron	disc	Ductile Iron
bonnet	Ductile Iron	seat	Copper Alloy
stem	Stainless Steel	stem nut and bushing	Gunmetal / Bronze, Copper Alloy
channel guides and shoes	Copper Alloy, Stainless Steel		

FEATURES

- Non-rising stem
- Full bore design with smooth passage and low flow resistance
- Long stroke time (on-off time) to avoid water hammer
- Clockwise close
- Bi-directional sealing; both sides of gate are symmetrical
- Ductile iron body with large bore up to DN2000
- Solid wedge gate in same material as body
- Seat rings on both body and disc in brass or bronze
- Brass or bronze (Gunmetal LG2) stem nut and bushing
- Optional channel guides for horizontal installation; gate fitted with shoes sliding within channel guides; guides and shoes in copper alloy or stainless steel to reduce friction and wear
- Multiple O-rings on stem bushing for shaft sealing
- External oil cup for shaft bushing/bearing
- Integral bypass system available on request
- Leakage rate B or rate A in both directions per EN12266-1
- 100% pressure testing before delivery
- Large-diameter resilient-seated gate valves visible up to DN1100
- PN10 pressure rating visible on body casting of DN1100 unit
- Multi-rib bonnet design on large-bore gate valves
- Manual handwheel gearbox operator fitted to large-bore units
- Double-eccentric butterfly valve variant shown with electric/pneumatic actuator
- Butterfly valve variant shown with manual gearbox operator

OPTIONS & NOTES

- Other stainless steel or brass/bronze stem materials available on request
- Integral bypass system will be designed as special request
- Other painting cycles available
- Channel guides designed as per special request, especially for horizontal installation