

FORGED STEEL GATE VALVE

Forged Steel Gate Valve

REF **EFC-478** ISSUED 06 Jul 2026

SPECIFICATIONS

| | |
|----------------|---|
| Size | NPS 1 to NPS 3" |
| Pressure | CL150 / PN10 to CL2500 / PN420 |
| End connection | socket-welding (ASME B16.11) / threaded (ASME B1.20.1) / flanged (ASME B16.5) / butt-welding (ASME B16.25) |
| Face-to-face | ASME B16.10, GB/T 12221 |
| Temperature | -196°C to 600°C |
| Media | tap water, sewage, petroleum, chemical media, food, medicine, textile process fluids, energy system fluids |

ACTUATION

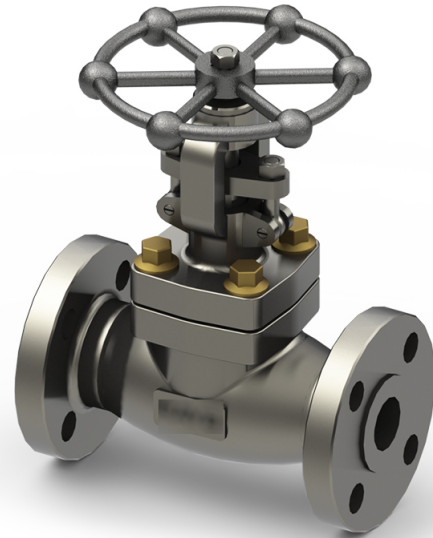
- manual

STANDARDS

| | |
|--------|----------------------------------|
| Design | API 602, BS 5352 |
| Test | API 602, API 598, BS 5146 |

APPLICATIONS

- tap water
- sewage
- construction
- petroleum
- chemical industry
- food
- medicine
- textile
- electricity
- metallurgy
- energy systems
- oil & gas



Install, operate and maintain in accordance with the manufacturer's manual supplied with the product.

- power

MATERIALS

| | | | |
|---------|---|-----------------|--|
| Body | carbon steel, stainless steel, alloy steel | Sealing surface | alloy steel, hard alloy |
| Packing | flexible graphite | Bonnet gasket | stainless steel wire with flexible graphite |

FEATURES

- Main components are forged.
- Three bonnet seal types available: bolted bonnet (with wound gasket), welded bonnet (threaded and fully welded), and pressure self-tightening seal structure.
- Bolted bonnet sealed with wound gasket (stainless steel wire with flexible graphite); metal ring connection available on request.
- Welded bonnet uses threaded connection with full weld; fully welded connection available on request.
- CL900, CL1500, and CL2500 middle cavity uses pressure self-tightening seal-sealing performance increases with internal pressure.
- Smooth flow channel with low flow coefficient.
- Sealing surface less susceptible to erosion from media.
- Sealing surface made of alloy steel or hard alloy for wear and abrasion resistance.
- Flexible graphite packing for reliable sealing and light operation.
- Bidirectional flow with no disturbance or pressure reduction.
- Packing can be replaced and maintained during online shutdown without affecting system operation.
- Simple geometry, short face-to-face length, wide application range.

OPTIONS & NOTES

- Metal ring connection can be used when customers have special requirements.
- Fully welded bonnet connection can also be used when customers have special requirements.
- The length of the riveted structure at the threaded end of the socket-welding connection shall comply with the factory standards.