

Forged Steel Gate Valves



Falcon forged steel gate Valves are compact in design, and are available in the pressure class range of 800 to 2500 and sizes ranging from 1/4" to 2" for various applications such as hydro carbon service, hydrogen service, cryo-application, sea water desalination projects and sour application (NACE MR-0175).

Specification Chart

Product	Forged Steel Gate Valves
Size Range	1/4" to 2"
Pressure Class	800 # to 3000#
Face to Face	Manufacturer's Standard
Testing	API 598/ BS 6755 / BS 12266 Part-1 / BS 6364

Salient Features:

- Bolted body-bonnet design for Valves up to Class 800.
Valves with welded bonnet also available on request
- Screwed with seal-welded body-bonnet design for Valves of Class 1500
- Bellows-sealed Gate Valves available in Class 800
- Bolted body-bonnet joints provided with spiral-wound stainless steel gasket and graphite filler for maximum protection against leaks
- Die-formed graphite inner packing rings and braided graphite end rings with Inconel wire reinforcement and corrosion inhibitor
- T-head stem-disc connection of gate Valves fully meets strength requirements of API 602 and API 598
- Rolled ACME thread on stem for smooth operation
- Tapered shoulder on the stem for back seating

- Self-aligning type gland assembly with stud-and-nut tightening
- Gate Valves can be offered with electrical actuators
- Austenitic SS forging for body and bonnet of Cryogenic Valves, resulting in excellent impact strength, minimal heat loss and resistance to corrosion
- Valves can be offered to NACE MR-0175 and other special NACE requirements

- Valves can be supplied with IBR certification

Cast Steel Gate Valves

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Gate Valves are the most commonly used as shutoff Valves in the industries, available with different wedge configurations to meet the specific service conditions.

These are also available with gearing or electric motor actuators. Normally gate Valves are hand wheel operated up to 10" for class 150 & 300.

Gear operated 12" & above for class 150 & 300. For class 600 hand wheel operated up to 8" & gear operated 10" & above. Electric, pneumatic actuators are provided on customer demand.

Specification Chart

Product	Gate Valves
Size Range	2" to 36"
Pressure Class	150 # to 2500#
Material	WCB, LCB, LC1, LC2, LC3, LCC, WC1, WC5, WC6, WC9, WCC, C5, C12, CF8, CF8M, CF3, CF3M, CG8M, CG3M, CN7M, CD4MCu, Alloy 20, Alloy 400, Alloy 625, Alloy 825, Duplex stainless steel, Super duplex stainless steel, Zirconium, Tantalum, SS904L, Hastelloy, Cupro Nickel, Monel, Inconel, Incoloy & Titanium
Design / Manufacturing Std	API 600 (ISO 10434), API 603, ASME B 16.34 / API 6D
Face to Face	ASME B 16.10/ BSEN 558 PART 1/ API 6D
Ends	Flanged / Butt Weld
End Connection Std	ASME B 16.5/ ASME B 16.47 Series A & B, ASME B 16.25 / BS 4504
Testing	API 598/ BSEN 12266 Part 1/ BS 6364 / API 607/ API 6 FA / API 6D
Body/Bonnet Joint	Bolted type and Pressure Seal type
Operation	Hand wheel, Gear, Electrical Actuators