

Expert make Cast Steel Flex Gate Valves are Tight Sealing, Easy Operation, Isolation valves for liquid and gaseous fluids over a wide range of line pressures and temperatures.

- Self adjusting flexible wedge assures tight sealing and minimizes stress concentration under varied service conditions.
- Stem-wedge thrust closer to wedge centre for accurate wedge movement
- Long guide ribs in the body to minimize seat wear.

Gate valves are of rising stem, outside, screw and yoke (OS & Y) and with Bolted Bonnet construction. The rising stem indicates open or close position of the valve. The outside screw ensures easy lubrication and prevents corrosion and erosion by line fluids. On request, valves can be supplied with special features like NACE Requirement, Radiography, Magnetic Particle Test, LGC Test and for Oxygen service etc.

**Body & Bonnet :** The body is designed for strength to meet the operating conditions and contoured to minimize erosion and resistance to flow. The bonnet is provided with renewable back seat arrangement.

**Flexible Wedge :** The one piece, case flexible wedge minimizes stress concentration and assures tight sealing over a wide range of different operating temperature and pressure conditions.

**Body Seat Ring :** The seat ring is welded to provide a bubble tight joint.

**Back Seat Arrangement :** The back seat is designed to relieve back pressure on the stem packing when fully seated.

**Seating Surface :** Gate valves can be offered with stellite seat, if specified. Stellite seat ring provides increased resistance to wear, abrasion and erosion of the sealing surface.

**Gland Arrangement :** The stuffing box holds a adequate packing rings to enhance gland tightness and increases the life of packing rings.

**End Connection :** Standard valves are offered with flanged ends (butt weld ends provided on request) to the following standards :

- |           |   |   |
|-----------|---|---|
| Flanged   | - | ASME B 16.5 Raised Face                               |
| Butt Weld | - | ASME B 16.25 to suit the corresponding pipe schedule. |

#### STANDARDS

- |                           |   |              |
|---------------------------|---|--------------|
| Design                    | - | API 600      |
| Face to face / dimensions | - | ASME B 16.10 |
| Testing                   | - | API 598      |

Valves can also be offered with IBR certification.

#### ACCESSORIES

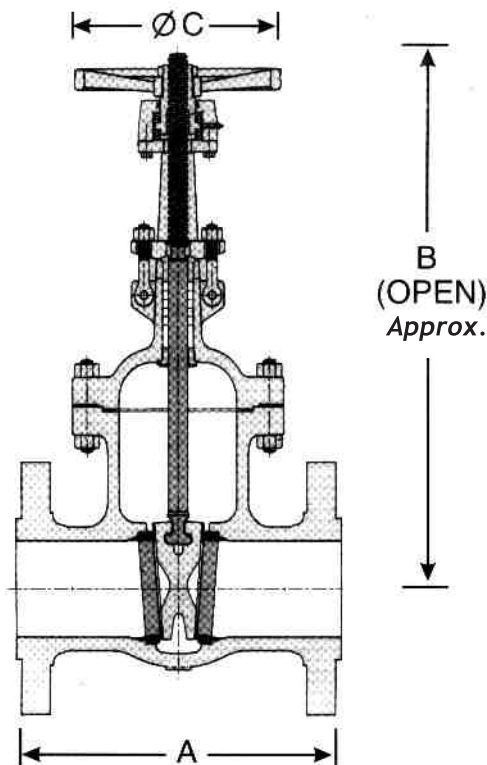
Valves can be supplied with accessories like extended Stem Arrangement, Gear Operation, Pneumatic and Electric Actuators, Chain Wheel Arrangement, Drain Plug and By-Pass Arrangement.



## Gate Valves



Size	Class-150			Class-300		
mm	A	B	C	A	B	C
15	108	210	100	140	210	100
20	117	215	100	152	215	100
25	127	215	150	165	215	150
40	165	330	200	190	330	200
50	178	360	200	216	365	200
65	190	400	200	241	400	250
80	203	470	250	283	485	250
100	229	550	250	305	570	300
125	254	650	300	381	685	350
150	267	735	300	403	810	350
200	292	1000	350	419	990	450
250	330	1260	400	457	1230	450
300	356	1450	400	502	1475	500



#### MATERIAL OF CONSTRUCTION :

Body And Bonnet	-	ASTMA216 Gr. WCB, ASTMA352 Gr. LCB. ASTMA351 Gr. CF8 / CF8M / CF3 / CF3M
Wedge & Seat Ring	-	Sizes 15mm to 100mm - ASTM A 217 Gr. CA15, 125mm and above WCB with 13% Chrome Overlay. ASTM A 351 Gr. CF8 / CF8M / CF3 / CF3M
Stem, Gland & Bonnet Bush	-	ASTMA276 Type 410 / 304 / 316
Yoke Sleeve	-	Ni-Resist ASTMA439 Gr. D2
Gland Packing	-	Graphite / Grafoil / PTFE
Stud / Nut	-	ASTMA193 Gr. B7 / ASTMA194 Gr. 2H
Hand Wheel	-	Carbon Steel

#### NOTE :

- All dimensions are in mm. unless otherwise specified and are indicative only.
- In the process of continuous improvement of our products, the data given herein is subject to change.
- Please specify the required size, material of construction, type of drive arrangement (if any), flange standard and quantity clearly at the time of placing the order.



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