

## 1077 Cast Steel (A 216 Gr. WCB) Gate Valve Class-150 (Flanged) I.B.R.

### Salient Features

- Design Standard BSEN ISO 10434 / API 600.
- Bolted Bonnet, Outside Screw, Yoke Type, Rising Stem.
- Renewable 13% Cr. Stainless Steel (SS 410) working parts.
- Handwheel Operated.
- Flanged Ends as per ASME B 16.5 Class-150.

Test Pressure (Hydrostatic) :  
Shell : 31 kg/cm<sup>2</sup>g (425 psig)  
Seat : 21kg/cm<sup>2</sup>g (313 psig)  
Seat (Steam) : 10.55 kg/cm<sup>2</sup>g (150 psig)  
Maximum Working Temperature : 425°C

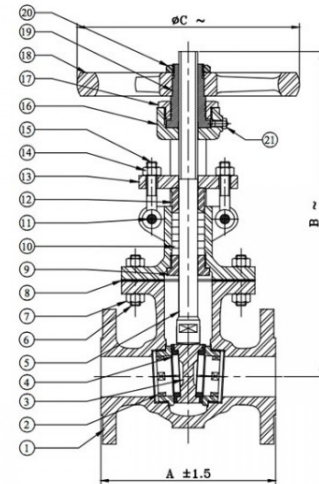
### Suitable For

Steam, Water, Oil



### Materials

P.No.	Name of Part	Material of Construction	Specification	Qty.
1	Body	Cast Steel	ASTM A 216 Gr. WCB	1
2	Body Seat Ring	Stainless Steel	ASTM A 276 Type 410 / ASTM A 182 Gr. F6a	2
3	Wedge	Cast Steel	ASTM A 216 Gr. WCB	1
4	Wedge Facing Ring	Stainless Steel	ASTM A 276 Type 410 / ASTM A 182 Gr. F6a	2
5	Stem	Stainless Steel	ASTM A 276 Type 410 / ASTM A 182 Gr. F6a	1
6	Studs	Alloy Steel	ASTM A 193 Gr. B7	
7	Nuts	H.T. Steel	ASTM A 194 Gr. 2H	
8	Gasket	Steam Jointing Sheet	IS 2712 Gr. W/3	1
9	Back Seat Bush	Aluminium Bronze	BSEN 1982 Gr. AB - 1	1
10	Gland Packing	Braided Graphite	IS 4687	
11	Pin For Eye Bolt	Stainless Steel	ASTM A 276 Type 410	2
12	Gland	Stainless Steel	ASTM A 276 Type 410	1
13	Gland Flange	Carbon Steel	---	1
14	Nuts	H.T. Steel	ASTM A 194 Gr. 2H	2
15	Eye Bolts	Stainless Steel	ASTM A 276 Type 410	2
16	Bonnet	Carbon Steel	ASTM A 216 Gr. WCB	1
17	Sleeve Nut	Stainless Steel	ASTM A 276 Type 410	1
18	Handwheel	Nodular Iron	ASTM A 439 D2	1
19	Yoke Sleeve	Aluminium Bronze	BSEN 1982 AB - 1	1
20	Handwheel Nut	Carbon Steel	---	1
21	Grease Nipple	Carbon Steel	---	1



### Sizes / Dimensions

Size (Inches)	Size (mm)	A ±1.5	B ~	ØC ~
1 1/2	40	165	330	210
2	50	178	340	210
2 1/2	65	190	395	210
3	80	203	430	225
4	100	229	521	255
5	125	254	568	255

Size (Inches)	Size (mm)	A ±1.5	B ~	ØC ~
6	150	267	666	356
8	200	292	783	400