

## FS-1 Forged Steel Gate Valve Standard Bore

### Description

- NETA Forged Steel Class-800 Gate Valve (Standard Bore) to BS:5352/API 602
- Bolted Bonnet
- Outside Screw and Yoke Type
- Rising Stem 13% Cr. S.S. (AISI-410) Trim
- Screwed Female (BSPT, NPT, API) or Socket Welded Ends conforming to ASME B 16.11

### Test Pressure

Body : 3000 PSIG Hydrostatic

Seat : 2000 PSIG Hydrostatic, 100 PSIG Air

Backseat : 2000 PSIG Hydrostatic



### Design Features

- Streamlined shaped flow way area for smooth flow of the working fluid for minimum pressure drop.
- Bolted Body Bonnet Joint.
- Renewable 13% Cr. S.S. (AISI-410) Body Seat Rings and wedge having difference in hardness of at least 50 HB.
- S.S (AISI-304) Spiral Wound Asbestos filled Gasket for Body Bonnet Joint.
- Ample depth of stuffing box in Gate Valves.
- Bolted self aligning two piece Gland in Gate Valves.
- The provision of back seating arrangement in Gate Valves permit replacement of Gland packing in fully open position while the valve is under in line pressure.
- Designed for tight shut off and efficient fluid control.
- Sturdy spoked hand wheel is provided for operation in Gate Valves.
- Gate Valves have a Tee-head stem connection for maximum dependability. Stems are provided with outside acme threading which do not come in contact with the process fluid & can be lubricated easily.

### Certification

IBR Test Certificate in Form III-C duly signed by the Director of Boilers, Punjab is provided for Valves to be used for steam service. For service other than steam our Works Test Certificate shall be provided.

**Application : Steam, Water, Oil**

**HSN : 84818010**

### Materials

PNo.	Part	Nos.	Material	Standard
1	Stem	1	S.S. 13% Cr.	ASTM A182 Gr.F6a / AISI - 410
2	Yoke Sleeve Retaining Nut	1	M.S.	IS:1367
3	Washer	1	M.S.	IS:226
4	Handwheel	1	C.I.	IS:210 Gr.FG - 200
5	Yoke Sleeve	1	S.S. 13% Cr.	ASTM A182 Gr.F6a / AISI - 410 / ASTM A217 Gr.CA - 15
6	Gland Flange	1	Forged Carbon Steel	ASTM A105
7	Gland	1	S.S. 13% Cr.	ASTM A182 Gr.F6a / AISI - 410
8	Gland Packing	-	Graphited Asbestos	-
9	Bonnet	1	Forged Steel	ASTM A105
10	Gasket	1	S.S. 18/8% Cr./Ni (AISI 304) Spiral Wound Asbestos Filled	-

PNo.	Part	Nos.	Material	Standard
11	Body Seat Ring	2	S.S. 13% Cr.	ASTM A182 Gr.F6a / AISI - 410
12	Wedge	1	S.S. 13% Cr.	ASTM A182 Gr.F6a / AISI - 410
13	Body	1	Forged Steel	ASTM A105
14	Studs	4	Alloy Steel	ASTM A193 Gr.B7
15	Nuts	4	H.T.Steel	ASTM A194 Gr.2H
16	Gland Nuts	2	H.T.Steel	ASTM A194 Gr.2H
17	Gland Bolts	2	S.S. 13% Cr.	ASTM A182 Gr.F6a / AISI - 410 Min. UTS 392 N/mm
18	Set Screw	2	M.S.	IS:1367
19	Washer	2	M.S.	IS:226

## Dimensions

Nominal Size (Inches)	Nominal Size (mm)	L	H	W	T	ØB	D (Min.)
1/2	15	90	149	86	1/2	21.8 / 22.2	9.5
3/4	20	102	160	86	3/4	27.2 / 27.6	12.7
1	25	120	189	98	1	33.9 / 34.3	12.7
1.1/4	32	143	232	150	1.1/4	41.73 / 42.09	15
1.1/2	40	165	240	150	1.1/2	47.62 / 47.98	15

