

## FS-5 Forged Steel Class-800 Globe Valve Reduced Bore

### Description

- NETA Forged Steel Class-800 Globe Valve (Reduced 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.
- Designed for tight shut off and efficient fluid control.
- Ample depth of stuffing box in Globe Valves.
- Bolted self aligning two piece Gland in Globe Valves.
- The provision of back seating arrangement in Globe Valves permit replacement of Gland packing in fully open position while the Valve is under in line pressure.
- Self aligning loose regulating Valve disc on stem in Globe Valves.
- Sturdy spoked hand wheel is provided for operation in Globe Valves.
- Globe 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    | Nut           | 1    | M.S.  | IS:1367                       |
| 2    | Washer        | 1    | M.S.  | IS:226                        |
| 3    | Handwheel     | 1    | C.I.  | IS:210 Gr.FG - 200            |
| 4    | Stem          | 1    | S.S. 13% Cr.  | ASTM A182 Gr.F6a / AISI - 410 |
| 5    | Yoke Bush     | 1    | S.S. 13% Cr.  | ASTM A182 Gr.F6a / AISI - 410 |
| 6    | Bonnet        | 1    | Forged Steel  | ASTM A105                     |
| 7    | Gland         | 1    | S.S. 13% Cr.  | ASTM A182 Gr.F6a / AISI - 410 |
| 8    | Gland Packing | -    | Graphited Asbestos  | -                             |
| 9    | Gasket        | 1    | S.S. 18/8% Cr./Ni (AISI - 304) Spiral Wound Asbestos Filled | -                             |
| 10   | Check Nut     | 1    | S.S. 13% Cr.  | ASTM A182 Gr.F6a / AISI - 410 |
| 11   | Disc          | 1    | S.S. 13% Cr.  | ASTM A182 Gr.F6a / AISI - 410 |

| PNo. | Part           | Nos. | Material            | Standard  |
|------|----------------|------|---------------------|---|
| 12   | Body Seat Ring | 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  |
| 20   | Gland Flange   | 1    | Forged carbon Steel | ASTM A105                                       |

### Dimensions

| Nominal Size (Inches) | Nominal Size (mm) | L   | H   | W   | T     | ØB            | D (Min.) |
|-----------------------|-------------------|-----|-----|-----|-------|---------------|----------|
| 3/4                   | 20                | 90  | 163 | 78  | 3/4   | 27.2 / 27.6   | 12.7     |
| 1                     | 25                | 102 | 178 | 90  | 1     | 33.9 / 34.3   | 12.7     |
| 1.1/4                 | 32                | 120 | 202 | 105 | 1.1/4 | 41.73 / 42.09 | 15       |
| 1.1/2                 | 40                | 143 | 254 | 150 | 1.1/2 | 47.62 / 47.98 | 15       |
| 2                     | 50                | 165 | 264 | 150 | 2     | 59.43 / 59.79 | 16       |

