



CORPORATE STANDARD

AA7501468

Rev. No. 03

PAGE 1 of 3

GLOBE VALVE, CARBON STEEL, PRESSURE CLASS 800

1 GENERAL

1.1 SCOPE

This standard specifies the requirements of globe valves, hand operated, outside screw and yoke type, forged carbon steel body material, pressure class 800 with screwed and socket welded end connections for size ranges 8 mm to 50 mm.

1.2 This standard shall be supplemented by AA0851403 for Technical delivery conditions.

1.3 APPLICATION

These valves suitable for fluids like steam, air, oil, water.

2 DESIGNATION

e.g.: GLOBE VLV CS NB25 CL800 SW

3 TECHNICAL REQUIREMENTS

CL	REQUIREMENTS	COMPLIANCE
3.1	Pressure temperature ratings	ISO 15761
3.2	Materials	As specified in Table 1
3.3	Construction	Generally in line with ISO 15761
3.4	End Connections	
3.4.1	Screwed	NPT Female parallel threads as per ASME B 1.20.1
3.4.2	Socket welded	ASME B16.11
3.5	End to end dimensions	As specified in Table 2
3.6	Hydraulic test pressures	
3.6.1	Body	208 kg/cm ²
3.6.2	Seat	153 kg/cm ²
3.6.3	Back Seat	153 kg/cm ²
3.6.4	Air leak test	6 kg/cm ²

Revisions: clause 3.6.1 and 4

APPROVED:

INTERPLANT MATERIAL RATIONALISATION
COMMITTEE – MRC (Valves)

Rev. No. 03

Amd. No.

Reaffirmed

Prepared

Issued

Dt. of 1st Issue

Dt: 08-10-2020

Dt:

Year:

HPEP, Hyderabad

Corp. R&D

01-10-1985

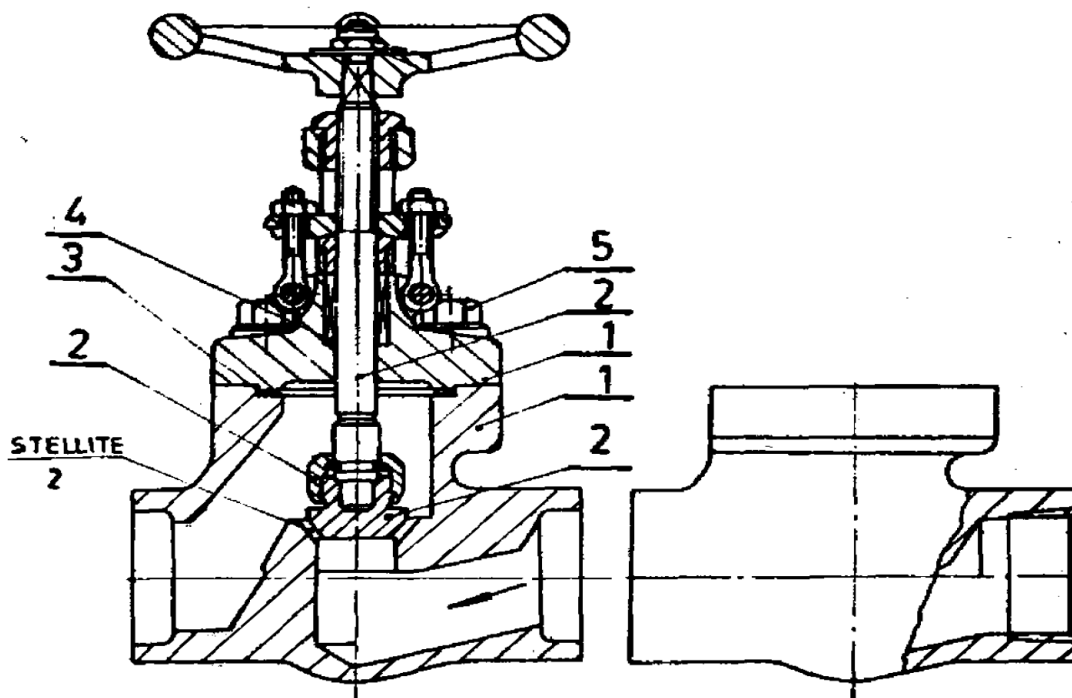


Table 1

Sl. No.	Material	Part
1	Valve body & yoke	ASTM A105
2	Trim, (stem, body seat ring, disc seat, disc nut)	SS 13 % Cr with renewable seat ring
3	Gasket	Spiral wound stainless steel with grafoil filler
4	Gland Packing	Grafoil
5	Bolts, nuts for body & bonnet	ASTM A193 Gr-B7 ASTM A194 Gr-2H
6	Other parts	As per relevant standards

GLOBE VALVE, CARBON STEEL, PRESSURE CLASS 800

Table 2

Nominal Size (NB)		End to End Distance L	Weight per piece (kg) Approx.	End Connections				
				Socket Welded			Screwed	
mm	inch			Socket Dia. (min.)	Pipe OD	Sub Code	Size of Screwed end	Sub Code
8	¼	84.1	1.6	14.1	13.7	-	¼" NPT	-
10	⅜	84.1	1.6	17.5	17.1	575	⅜" NPT	-
15	½	84.1	1.6	21.7	21.3	583	½" NPT	893
20	¾	90.5	1.8	27.1	26.7	591	¾" NPT	907
25	1	111.1	3.4	33.8	33.4	605	1" NPT	915
(32)	(1 ¼)	165.1	5.2	42.5	42.2	-	-	-
40	1 ½	165.1	6.5	48.6	48.3	621	1 ½" NPT	-
50	2	177.8	11.1	61.11	60.3	630	2" NPT	940

FL Flanged BW Butt Welded RF Raised Face RJ Ring Joint SC Screwed SW Socket Welded.

NOTE

- 1) 12-Digit Material Code shall be obtained by Suffixing Sub-Code to the Standard No.
- 2) Specific requirements of the Plants shall be covered by Plant Annexure to this Standard.
- 3) Sizes given in brackets are non- preferred.
- 4) All Dimensions are in mm unless otherwise specified.

4 REFERRED STANDARDS (Latest Publications Including Amendments)

- 1) AA0851403
- 2) ASME B 1.20.1
- 3) ASME B16.11
- 4) ASTM A105
- 5) ASTM A193
- 6) ASTM A194
- 7) ISO 15761