

FORGED STEEL

GLOBE VALVE (Class-800, 1500)

INTRODUCTION

Leader forged steel globe valve offers renewable seat by default with rising stem and hand wheel. It blocks the flow of pipeline through the rotation and lifting of hand wheel as well as stem to drive the lift of disc. There is no relative friction between disc and body sealing surface. The globe valves has the features of long service life for opening and closing, it can be used a shut-off valve for small size pipeline.

PRINCIPAL FEATURES

- Design Std.: BSEN ISO 15761, ASME B16.34.
- Pressure Temperature Rating as per ASME B16.34, BSEN ISO 15761.
- Sturdy design for high pressure & temperature service.
- Bolted body-bonnet O&S Yoke type rising stem design, Valves with welded bonnet also available on request.
- The body is available in both the full or standard port design.
- Bolted body-bonnet joints provided with spiral-wound stainless steel gasket and graphite filler for protection against leaks.
- Die-formed graphite inner packing rings and braided graphite end rings with Inconel wire reinforcement and corrosion inhibitor.
- Tapered shoulder on the stem for back seating.
- The gland, gland flange assembly utilizes a separate, two piece design. This self aligning design allows the flange to be unevenly tightened while the gland maintains its parallel alignment with the stem and stuffing box.
- The yoke sleeve is of forged stainless steel material having a high melting point and is resistant to wear and corrosion.
- Socket welded ends as per ASME B16.11.
- Screwed Female Taper ends as per ASME B1.20.1 (NPT) / BS 21 & Screwed Female Parallel ends as per ISO 228 / BS 21 available on request.
- Socket-weld Class 800 Reduced Bore valves confirm to Class 3000 (or Sch.80 / Sch. XS) fittings of ASME B16.11.
- Socket-weld Class 800 Full Bore valves confirm to Class 6000 (or Sch.160) fittings of ASME B16.11.
- Butt weld ends as per ASME B16.25 available on request.
- Robust construction of hand wheel in open spoke design.
- Valves can be offered with electrical actuators on request.
- Low Temperature Carbon Steel & Austenitic SS forging for body and bonnet with extended bonnet design qualified as per BS 6364 for Cryogenic service available on request.
- Valves can be offered to NACE MR-0175 and other special NACE requirements.
- Valves are available with IBR certification.
- Low Emission, FET qualified valves as per API 624 / ISO 15848-1 can be offered with API 622 (FET), API 607 (Fire Safe) qualified gland packing.

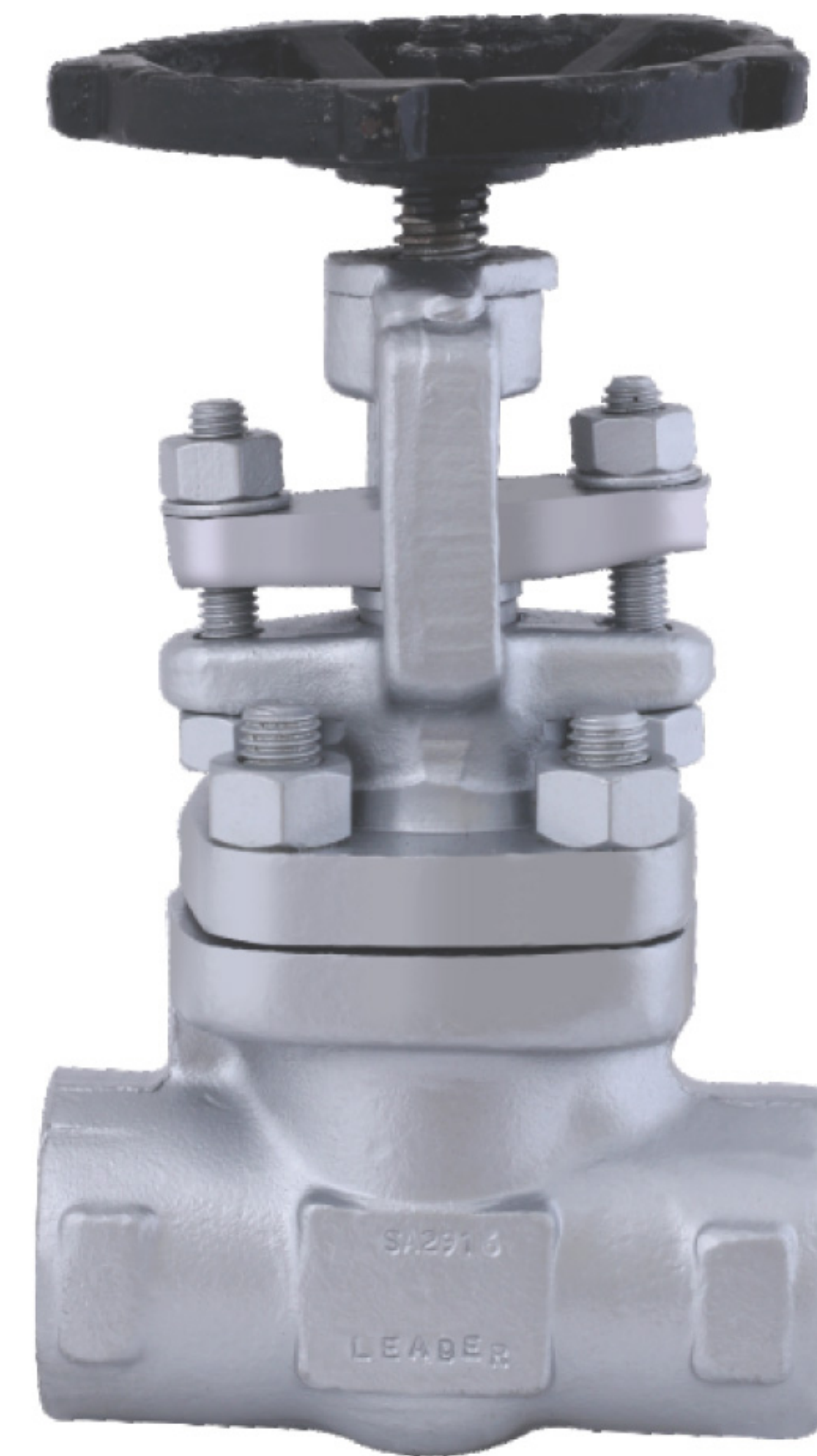
END CONNECTION

Socket Weld / Screwed ends / Butt Welded ends.

WORKING PRESSURE & TEMPERATURE LIMITS

Maximum working pressure 138 Bar (CL-800), 255 Bar (CL-1500).
Maximum working temperature 425°C.

See Pressure / Temperature Chart at Page No.38.



■ Item Code:	FCS007,	FCS008,	FCS009
■ Bore Type:	Reduced Bore	Full Bore	-----
■ Pressure Rating:	CL-800,	CL-800,	CL-1500
■ Testing Standard:	API-598, BSEN 12266 Part-1		
■ Size Range:	15mm to 50mm		
■ Product Standard:	BSEN ISO 15761, ASME B16.34		

SUITABLE FOR

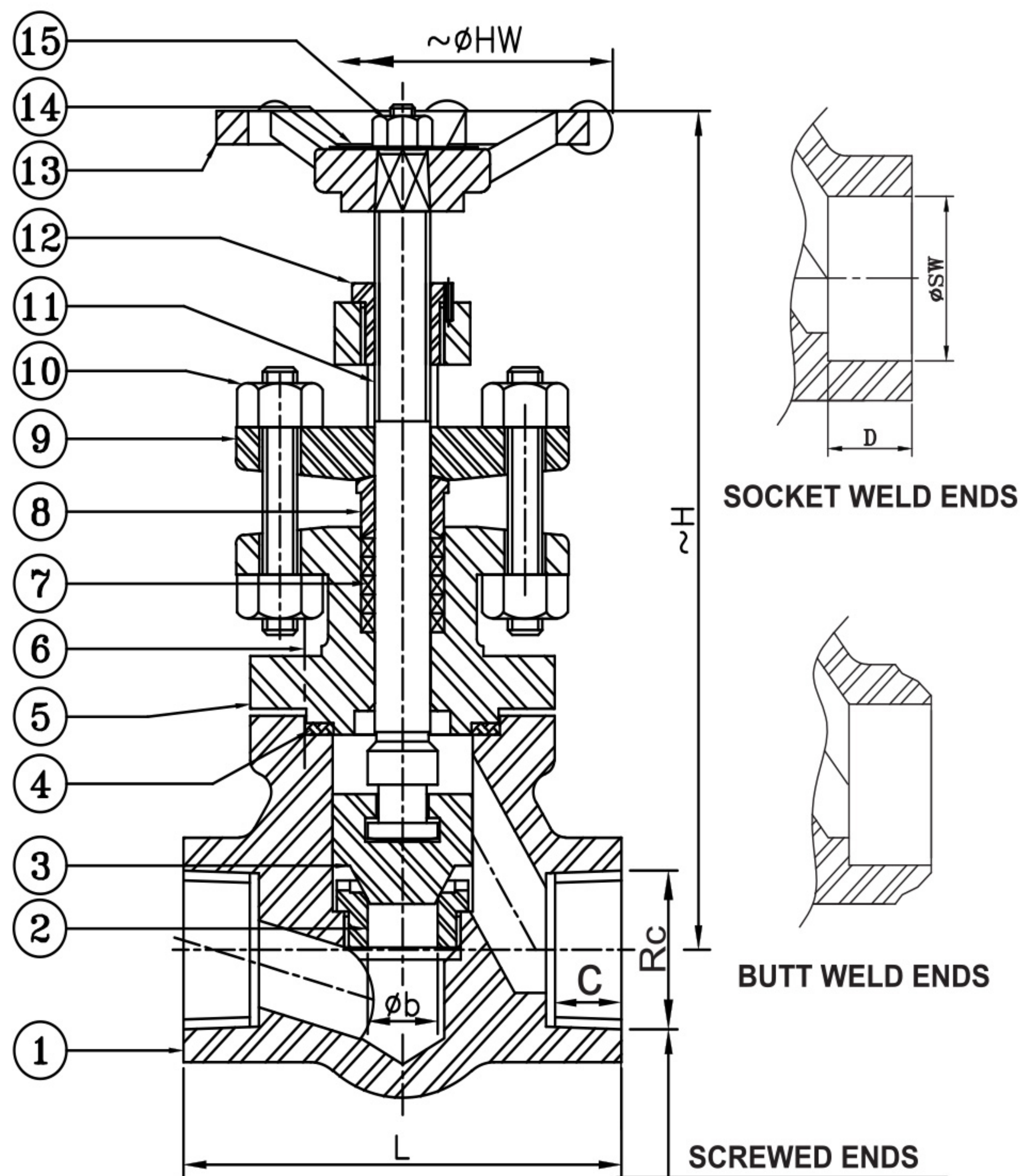
Water	Oil	Air	Gases	Steam
✓	✓	✓	✓	✓

TEST PRESSURE (Hydrostatic)

Rating	CL-800	CL-1500
Body (Hyd.)	207 Bar	384 Bar
Seat (Hyd.)	152 Bar	281 Bar
Seat (Air)	6.9 Bar	6.9 Bar

TRIM MATERIAL COMBINATION (ON REQUEST)

Trim No.	Seat Ring Face	Wedge Seat Face	Stem	Backseat Bush	Lantern Ring
2	F304	F304	F304/AISI304	F304/AISI304	F304/AISI304
5	STELLITE(#6)	STELLITE(#6)	F6a/AISI410	F6a/AISI410	F6a/AISI410
8	STELLITE(#6)	F6a/13%Cr.	F6a/AISI410	F6a/AISI410	F6a/AISI410
9	MONEL	MONEL	MONEL	MONEL	MONEL
10	F316	F316	F316/AISI316	F316/AISI316	F316/AISI316
12	316+Stellite(#6)	316	F316/AISI316	F316/AISI316	F316/AISI316
13	ALLOY 20	ALLOY 20	ALLOY 20	ALLOY 20	ALLOY 20



DIMENSIONAL DATA CLASS-800 (REDUCED BORE)

SIZE (mm)	15	20	25	32	40	50
L	80	88	100	124	145	170
Øb	10	12.7	18	23	30	35
~ØHW	82	90	96	114	155	155
~H	140	155	175	198	240	270
C	17	18	21	21	23	24
Rc	1/2"	3/4"	1"	1-1/4"	1-1/2"	2"
ØSW	AS PER ASME B16.11	22.2	27.6	34.3	43.1	49.2
		21.8	27.2	33.9	42.7	48.8
D	11	14	14	14	14	17

DIMENSIONAL DATA CLASS-1500

SIZE (mm)	15	20	25	32	40
L	100	124	145	170	170
Øb	12	16	19	27	32
~ØHW	96	114	155	155	155
~H	172	201	235	270	270
C	17	18	23	24	24
Rc	1/2"	3/4"	1"	1-1/4"	1-1/2"
ØSW	AS PER ASME B16.11	22.2	27.6	34.3	43.1
		21.8	27.2	33.9	42.7
D	11	14	14	14	14

DIMENSIONAL DATA CLASS-800 (FUL BORE)

SIZE (mm)	15	20	25	32	40	50
L	88	100	124	145	170	228
Øb	12.7	18	23	30	35	47.5
~ØHW	90	96	114	155	155	155
~H	155	175	198	240	270	334
C	18	21	21	23	24	24
Rc	1/2"	3/4"	1"	1-1/4"	1-1/2"	2"
ØSW	AS PER ASME B16.11	22.2	27.6	34.3	43.1	49.2
		21.8	27.2	33.9	42.7	48.8
D	14	14	14	14	14	17

MATERIAL SPECIFICATION

P.No.	NAME OF PART	CARBON STEEL			ALLOY STEEL			STAINLESS STEEL				
1	BODY	A105	A350 LF2	A182 F5	A182 F11	A182 F22	A182 F9	A182 F304	A182 F316	A182 F304L	A182 F316L	
2	SEAT RING	ASTM A276 TYPE 410 SS 304			SS 410	SS 410	SS 410	SS 410	SS 304	SS 316	SS 304L	SS 316L
3	DISC	ASTM A217 Gr.CA15/ ASTM 276 TYPE 410 SS 304		CA15/ SS 410	CA15/ SS 410	CA15/ SS 410	CA15/ SS 410	SS 304	SS 316	SS 304L	SS 316L	
4	GASKET	SPIRAL WOUND STAINLESS STEEL GRAPHOIL FILLER										
5	BONNET	A105	A350 LF2	A182 F5	A182 F11	A182 F22	A182 F9	A182 F304	A182 F316	A182 F304L	A182 F316L	
6	STUDS	A193 B7	A320 L7	A193 B7	A193 B7	A193 B16	A193 B16	A193 B8	A193 B8	A193 B8	A193 B8	
7	PACKING	FLEXIBLE GRAPHITE										
8	GLAND	A182 F6a	SS 304	A182 F6a	A182 F6a	A182 F6a	A182 F6a	SS 304	SS 316	SS 304L	SS 316L	
9	GLAND FLANGE	A105	A350 LF2	A182 F5	A182 F11	A182 F22	A182 F9	A182 F304	A182 F316	A182 F304L	A182 F316L	
10	NUTS	A194 2H	A194 Gr.4	A194 2H	A194 Gr.4	A194 Gr.4	A194 Gr.4	A194 Gr.8	A194 Gr.8	A194 Gr.8	A194 Gr.8	
11	STEM	ASTM A276 TYPE 410 SS 304			SS 410	SS 410	SS 410	SS 410	SS 304	SS 316	SS 304L	SS 316L
12	YOKE SLEEVE	ASTM A582 TYPE 416										
13	HAND WHEEL	DI. A536 Gr. 80-55-06										
14	NAME PLATE	ALUMINIUM / STEEL										
15	HAND WHEEL RETAINING NUT	STEEL										