

# FORGED STEEL

# GLOBE VALVE (Class-2500)

## 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.: ASME B16.34.
- Pressure Temperature Rating as per ASME B16.34.
- Sturdy design for high pressure & temperature service.
- Welded body-bonnet O&S Yoke type rising stem design, welded body-bonnet joints offers an additional level of safety against fugitive emission.
- 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.
- 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

Maximum working pressure 425 Bar.  
See Pressure / Temperature Chart at Page No.38.

## TEMPERATURE LIMITS

Maximum working temperature 425°C.  
See Pressure / Temperature Chart at Page No.38.



■ **Item Code:** FCS023

■ **Pressure Rating:** CL-2500

■ **Testing Standard:** API-598, BSEN 12266 Part-1

■ **Size Range:** 15mm to 25mm

■ **Product Standard:** ASME B16.34

## SUITABLE FOR

Water	Oil	Air	Gases	Steam
✓	✓	✓	✓	✓

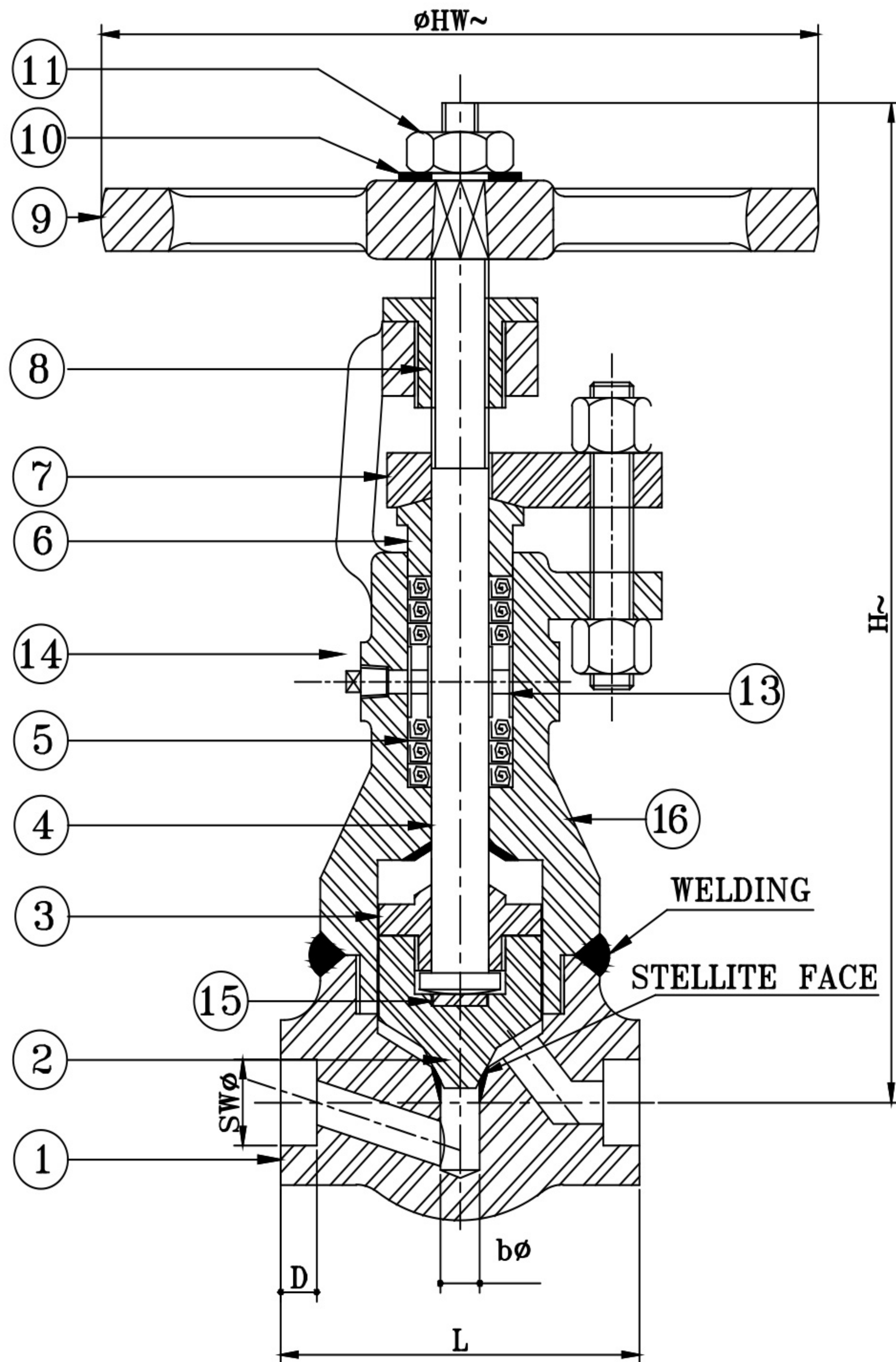
## TEST PRESSURE (Hydrostatic)

Rating	CL-2500
Body (Hyd.)	621 Bar
Seat (Hyd.)	456 Bar
Seat (Air)	6.9 Bar

## TRIM MATERIAL COMBINATION (ON REQUEST)

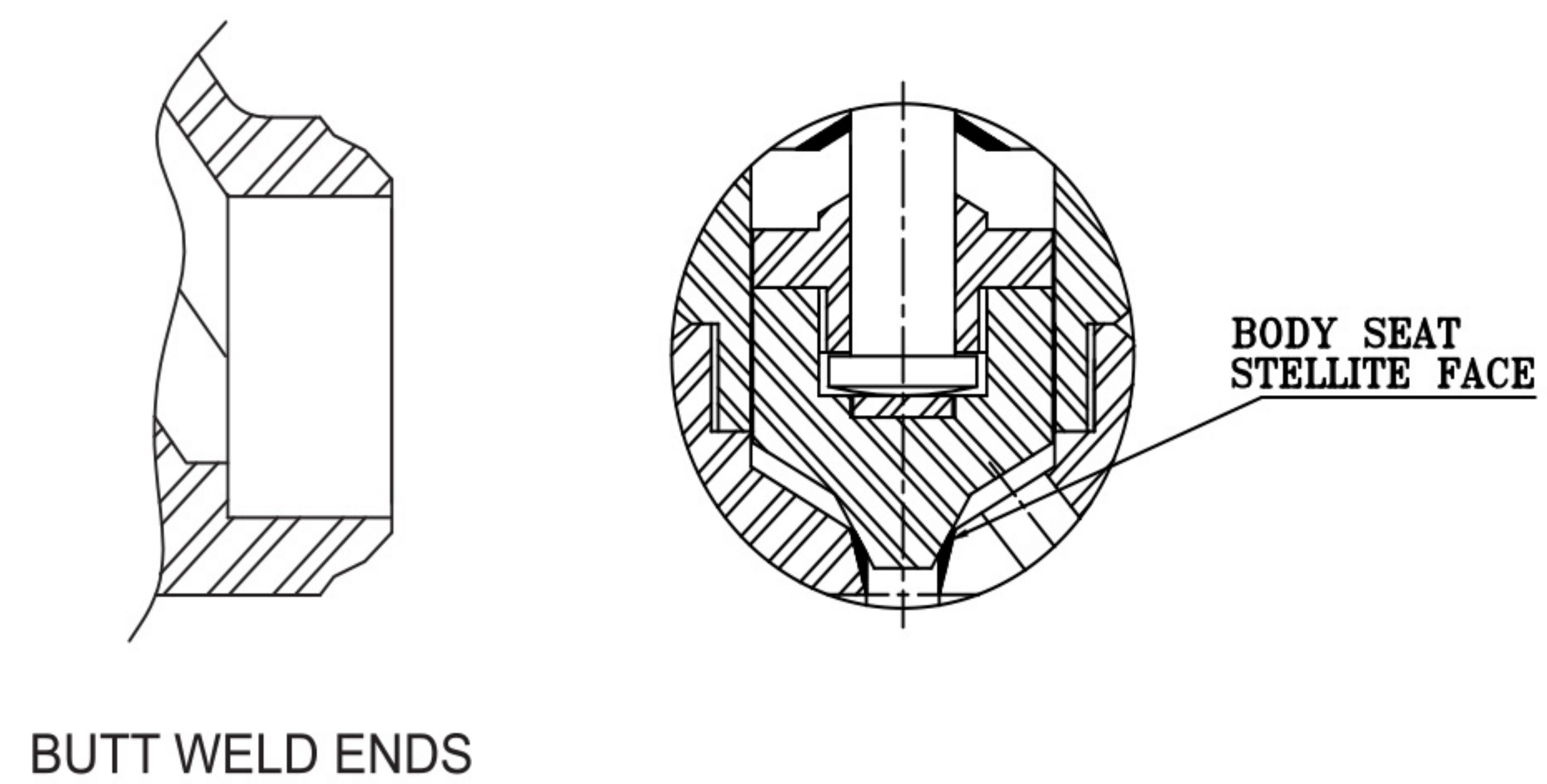
Trim No.	Seat Ring Face	Wedge Seat Face	Stem	Backseat Bush	Lantern Ring
2	F304	F304	F304/AISI304	F304/AISI304	F304/AISI304
5	STELLITE(#6)	STELLITE(#6)	F6a/AISI410	F6a/AISI410	F6a/AISI410
8	STELLITE(#6)	F6a/13%Cr.	F6a/AISI410	F6a/AISI410	F6a/AISI410
9	MONEL	MONEL	MONEL	MONEL	MONEL
10	F316	F316	F316/AISI316	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-2500

SIZE (mm)	15	20	25	
L	130	130	130	
H~	320	320	320	
~ØHW	200	200	200	
bØ	11	14	19	
SWØ	AS PER ASME B16.11	22.2	27.6	34.3
		21.8	27.2	33.9
D	11	14	14	



### MATERIAL SPECIFICATION

P.No.	NAME OF PART	CARBON STEEL				ALLOY STEEL				STAINLESS STEEL			
		A105	A350 LF2	A182 F5	A182 F11	A182 F22	A182 F9	A182 F304	A182 F316	A182 F304L	A182 F316L		
1	BODY	A105	A350 LF2	A182 F5	A182 F11	A182 F22	A182 F9	A182 F304	A182 F316	A182 F304L	A182 F316L		
2	DISC	ASTM A217 Gr.CA15/ ASTM 276 TYPE 410 +STELLITE	SS 304 +STELLITE	CA15/ SS 410 +STELLITE	CA15/ SS 410 +STELLITE	CA15/ SS 410 +STELLITE	CA15/ SS 410 +STELLITE	SS 304 +STELLITE	SS 316 +STELLITE	SS 304L +STELLITE	SS 316L		
3	STEM NUT	ASTM A276 TYPE 410	SS 304	SS 410	SS 410	SS 410	SS 410	SS 304	SS 316	SS 304L	SS 316L		
4	STEM	ASTM A276 TYPE 410	SS 304	SS 410	SS 410	SS 410	SS 410	SS 304	SS 316	SS 304L	SS 316L		
5	PACKING	FLEXIBLE GRAPHITE											
6	GLAND	A182 F6a	SS 304	A182 F6a	A182 F6a	A182 F6a	A182 F6a	SS 304	SS 316	SS 304L	SS 316L		
7	GLAND FLANGE	A105	A350 LF2	A182 F5	A182 F11	A182 F22	A182 F9	A182 F304	A182 F316	A182 F304L	A182 F316L		
8	YOKE BUSH	ASTM A582 TYPE 416											
9	HAND WHEEL	DI. A536 Gr. 80-55-06											
10	WASHER	STEEL ANY GRADE											
11	NYLOCK NUT	STEEL TO ASTM A194 GR.2H											
12	GLAND BOLTING	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		
13	LATERN RING	ASTM A276 TYPE 410	SS 304	SS 410	SS 410	SS 410	SS 410	SS 304	SS 316	SS 304L	SS 316L		
14	PLUG	TO SUIT SERVICE CONDITIONS											
15	THRUST PLATE	HARDEND STEEL											
16	BONNET	A105	A350 LF2	A182 F5	A182 F11	A182 F22	A182 F9	A182 F304	A182 F316	A182 F304L	A182 316L		