CAST IRON

GLOBE VALVE

INTRODUCTION

Leader Cast Iron Globe Valves (T pattern) are designed to stop, start and regulate flow. The disk of a Globe valve can be totally removed from the flow path or it can completely close the flow path. The horizontal setting of the seat allows the stem and disk to travel perpendicular to the horizontal line, this assures accurate regulated flow control.

PRINCIPAL FEATURES

- Design Std.: BSEN 13789.
- Straight pattern (Tee Pattern), O/S & Yoke Type, Rising Stem.
- Metal to Metal seating.
- Stainless Steel Body & Disc rings, Stainless Steel Stem.
- Composition disk uses a hard, non-metallic insert ring on the disk, which ensures a tighter closure.
- Flanged ends as per DIN 2533 PN16 (RF).
- Compact & rigid structure.
- Used in severe throttling services, such as in bypass lines around a control valve.
- Small opening and closing torque.
- The outside screw & Yoke configuration protects the stem & offer quick visual indicator of open / closed position.
- Using Grafoil packing, reliable sealing, light and flexible operation.
- Robust construction of hand wheel in open spoke design.
- Provision for re-packing under pressure in the installed condition.
- Easy visual control of open / closed position marked on the hand wheel.
- Operation mode manual, gear, electric.
- Available with open-shut indicator & locking arrangement on request.
- Valves are available with IBR Certification upto size 200mm.
- Widely used for utility services such as water supply, power plants, gas supply, district heating piping, irrigation projects, air conditioning systems, as well as food processing industry, chemical and petrochemical industry, Boiler industry, pharmaceutical and powder industry for throttling service.

END CONNECTION

Flanged as per DIN 2533, PN-16 (RF).
Flange drilling as per other standards also available upon request.

UTILISATION & SERVICE

Best suited for potable water, treated fresh water, neutral liquids Steam & some gases.

WORKING PRESSURE

Maximum Working Pressure: 16 Bar.
See Pressure / Temperature Diagram.

TEMPERATURE LIMITS

Maximum Working temperature: 220°C.
See Pressure / Temperature Diagram.

Item Code:	CI0014
Pressure Rating:	PN-16
Testing Standard:	BSEN 12266 Part-1
Size Range:	15mm to 350mm
Product Standard:	BSEN 13789

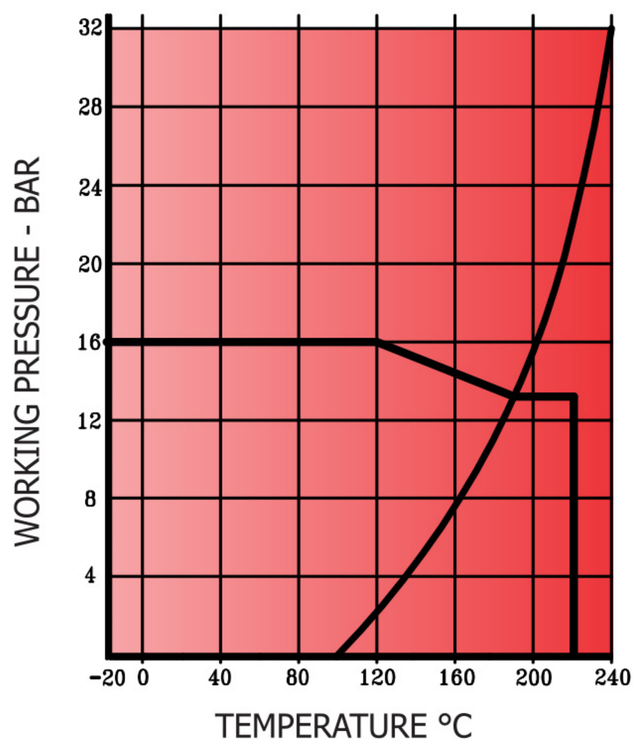
SUITABLE FOR

Water	Oil	Air	Gases	Steam
✓	✓	✓	✓	✓

TEST PRESSURE (Hydrostatic)

Rating	PN-16
Body (Hyd.)	24 Bar
Seat (Hyd.)	16 Bar

PRESSURE/TEMPERATURE DIAGRAM



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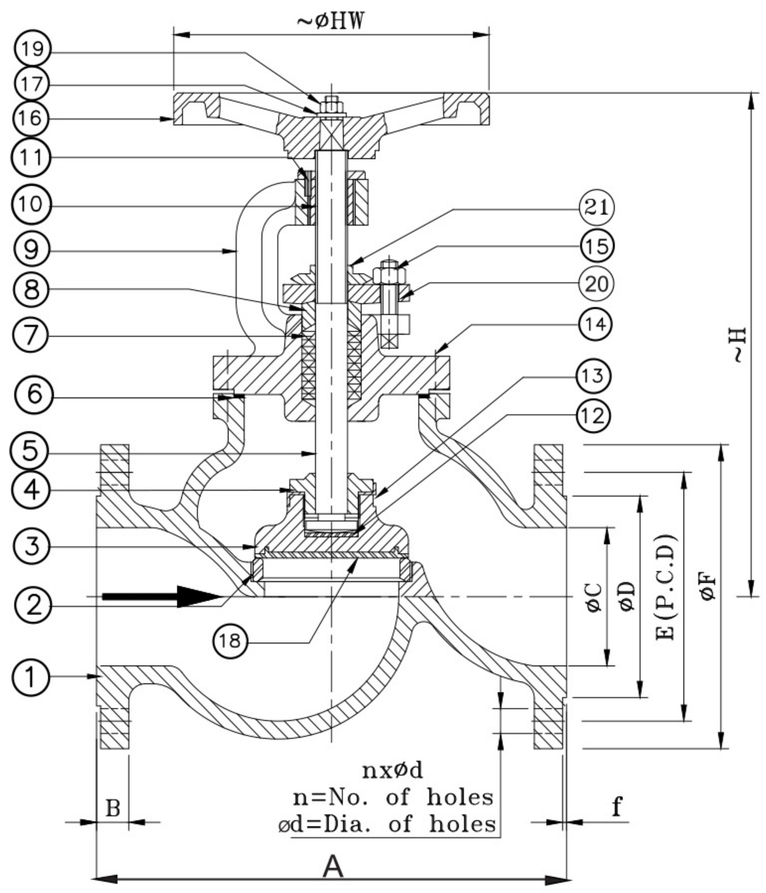
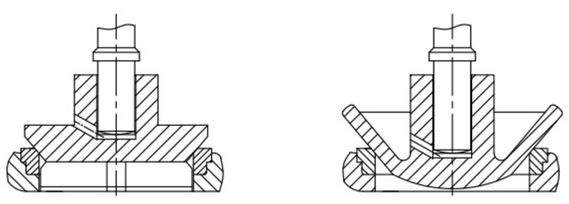
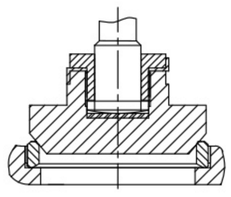




FOR SDNR TYPE VALVE



FOR SDSL TYPE VALVE

MATERIAL SPECIFICATION

P.No.	NAME OF PART	MATERIAL	SPECIFICATION
1	BODY	CAST IRON	BSEN 1561 Gr. 200
2	BODY SEAT RING	STAINLESS STEEL	ASTM A182 Gr. F6a
3	DISC (SDSL)	CAST IRON	BSEN 1561 Gr. 200
4	STEM NUT	CAST IRON	ASTM A182 Gr. F6a
5	STEM	STAINLESS STEEL	ASTM A276 TYPE 410
6	GASKET	C.N.A.F.	
7	GLAND PACKING	FLEXIBLE GRAPHITE	
8	GLAND FOLLOWER	STAINLESS STEEL	ASTM A276 TYPE 410
9	BONNET	CAST IRON	BSEN 1561 Gr. 200
10	YOKE BUSH	GUN METAL	BSEN 1982 Gr. CC491K
11	LOCK SCREW	STAINLESS STEEL	TYPE 410
12	THRUST PLATE	HARDENED STEEL	
13	LOCKING WASHER	STAINLESS STEEL	TYPE 304
14	STUDS & NUTS	CARBON STEEL	BS 916
15	T-HEAD BOLTS & NUTS	CARBON STEEL	BS 916
16	HAND WHEEL	CAST IRON	BSEN 1561 Gr. 200
17	WASHER	CARBON STEEL	IS 2062 Gr. A
18	DISC RING	STAINLESS STEEL	ASTM A182 Gr. F6a
19	NUT FOR HAND WHEEL	CARBON STEEL	BS 916
20	GLAND FLANGE	CAST IRON	BSEN 1561 Gr. 200
21	INDICATOR	GUN METAL	BSEN 1982 Gr. CC491K

DIMENSIONAL DATA

SIZE (mm)	15	20	25	32	40	50	65	80	100	125	150	200	250	300	350
A	$130^{\pm1.6}$	$150^{\pm1.6}$	$160^{\pm1.6}$	$180^{\pm1.6}$	$200^{\pm1.6}$	$230^{\pm1.6}$	$290^{\pm1.6}$	$310^{\pm1.6}$	$350^{\pm1.6}$	$400^{\pm1.6}$	$480^{\pm1.6}$	$495^{\pm1.6}$	$622^{\pm1.6}$	$850^{\pm3.2}$	$980^{\pm3.2}$
B	14	16	16	18	18	20	20	22	24	26	26	30	32	32	36
ØC	15	20	25	32	40	50	65	80	100	125	150	200	250	300	350
ØD	45	58	68	78	88	102	122	138	158	188	212	268	320	378	438
ØF	95	105	115	140	150	165	185	200	220	250	285	340	405	460	520
~ØHW	120	120	120	120	140	140	180	180	235	260	320	400	400	400	450
~H	165	165	170	200	230	255	305	320	350	405	460	529	571	710	770
E	65	75	85	100	110	125	145	160	180	210	240	295	355	410	470
n	4	4	4	4	4	4	4	8	8	8	8	12	12	12	16
Ød	14	14	14	18	18	18	18	18	18	18	22	22	26	26	26
f	2	2	2	2	3	3	3	3	3	3	3	3	3	4	4

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