

INTRODUCTION

Leader Cast Iron Sluice Valves (Non-Rising Spindle) are best suited for services that require infrequent valve operation, and where the wedge is kept either fully opened or fully closed. It offers the ultimate in dependable service wherever minimum pressure drop is important.

PRINCIPAL FEATURES

- Design Std.: IS:14846.
- Bolted Bonnet, inside screw, Non Rising Stem.
- Solid Wedge, Metal to Metal seating.
- Gun Metal Body & Wedge rings, Stainless Steel Stem.
- Flanged ends as per IS:1538 (FF).
- Compact & rigid structure.
- Provided full flow with minimal pressure drop.
- Small opening and closing torque.
- Using Non-Asbestos 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, pneumatic.
- Available with open-shut indicator & locking arrangement on request.
- Widely used in water distribution, power plants and pipeline for access or cut off the medium pipeline opening and closing devices.

END CONNECTION

Flanged as per IS:1538 (FF).
Flange drilling as per other standards also available upon request.

UTILISATION & SERVICE

“LEADER” Cast Iron Sluice valves are suitable for above-ground installations.
Best suited for potable water, treated fresh water, neutral liquids & some gases.

WORKING PRESSURE

Maximum Working Pressure: (PN 1.0) 10 Bar, (PN 1.6) 16 Bar.
See Pressure / Temperature Diagram.

TEMPERATURE LIMITS

Maximum Working temperature: 45°C.
See Pressure / Temperature Diagram.



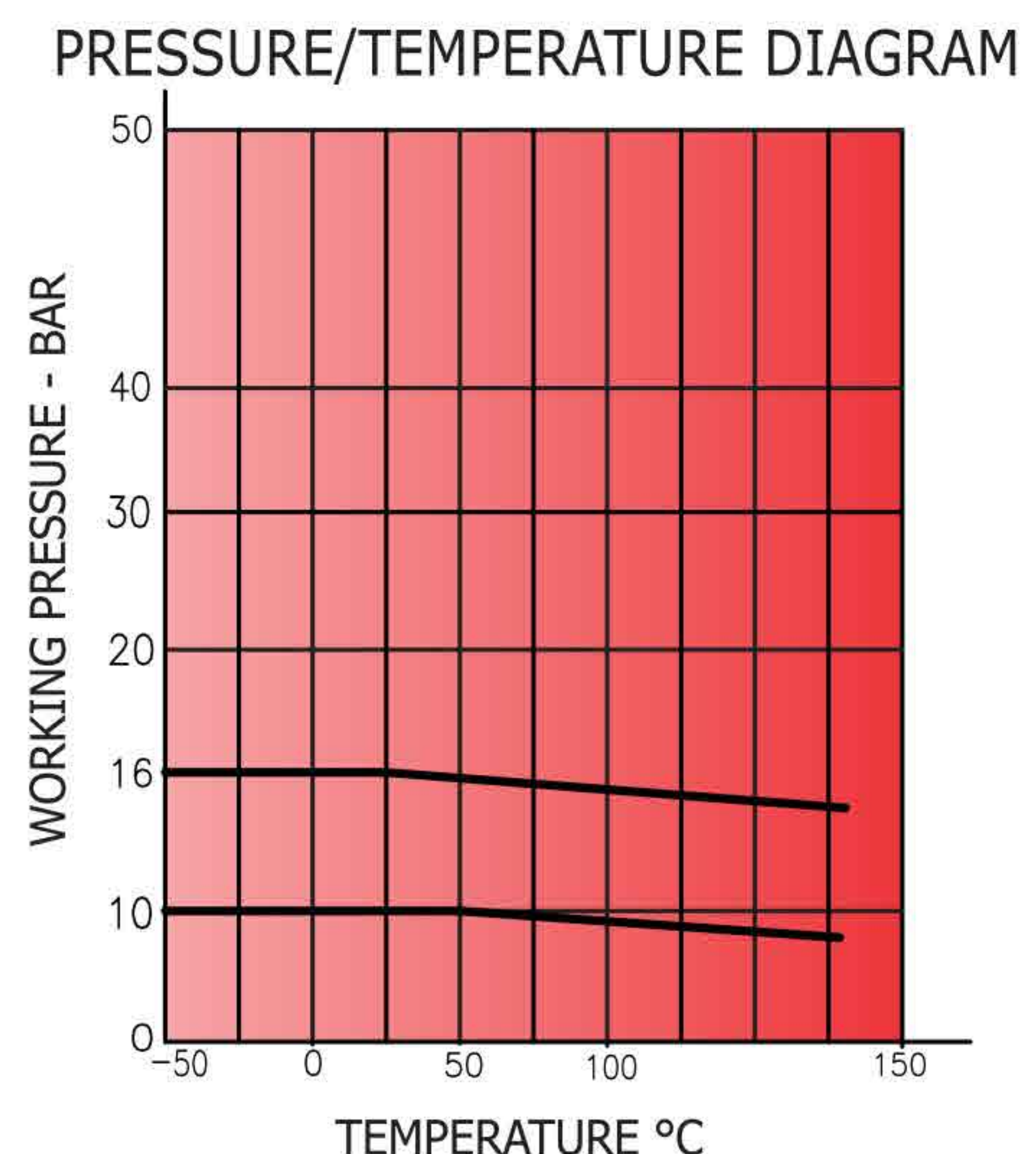
- **Item Code:** CI0008, CI0043
- **Pressure Rating:** PN-1.0, PN-1.6
- **Testing Standard:** IS 14846
- **Size Range:** 50mm to 600mm
- **Product Standard:** IS 14846

SUITABLE FOR

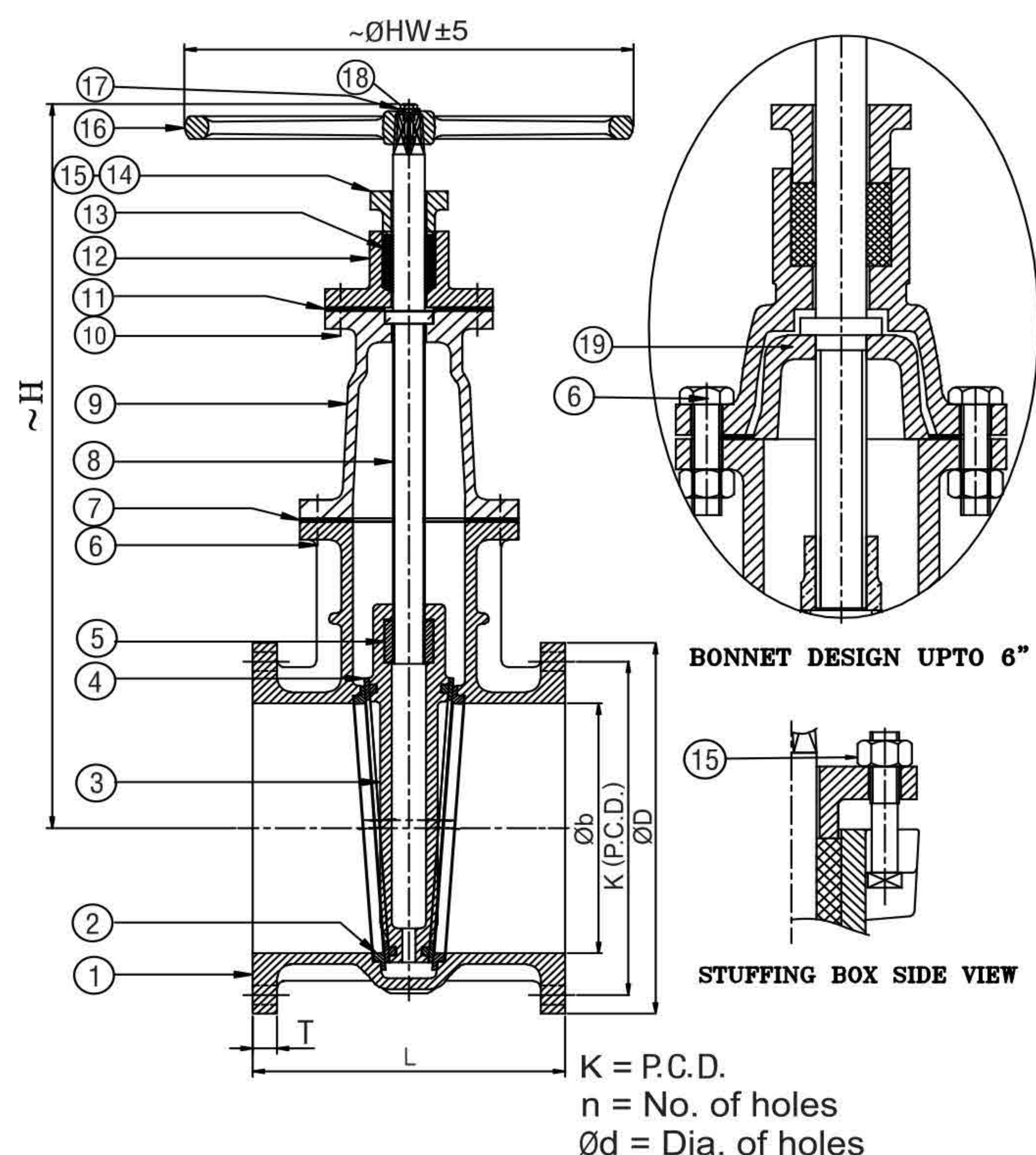
Water	Oil	Air	Gases
✓	✓	✓	

TEST PRESSURE (Hydrostatic)

Rating	PN-1.0	PN-1.6
Body (Hyd.)	1.5 MPa	2.4 MPa
Seat (Hyd.)	1.0 MPa	1.6 MPa



MATERIAL SPECIFICATION



P.No.	NAME OF PART	MATERIAL
1	BODY	CAST IRON (IS 210 Gr. FG 200)
2	BODY RING	GUN METAL (IS 318 Gr. LTB2)
3	WEDGE	CAST IRON (IS 210 Gr. FG 200)
4	WEDGE RING	GUN METAL (IS 318 Gr. LTB2)
5	WEDGE NUT	GUN METAL (IS 318 Gr. LTB2)
6	BOLTS & NUTS	CARBON STEEL (IS 1363 CLASS 4 & 4.6)
7	GASKET	RUBBER (IS 638 TYPE B)
8	STEM	S.S. (IS 6603) / BRASS (IS 6912 Gr. FHTB1)
9	BONNET	CAST IRON (IS 210 Gr. FG 200)
10	BOLTS & NUTS	CARBON STEEL (IS 1363 CLASS 4 & 4.6)
11	GASKET	RUBBER (IS 638 TYPE B)
12	STUFFING BOX	CAST IRON (IS 210 Gr. FG 200)
13	PACKING	HEMP & JUTE (IS 5414)
14	GLAND	CAST IRON (IS 210 Gr. FG 200)
15	T-BOLTS & NUTS	CARBON STEEL (IS 1363 CLASS 4 & 4.6)
16	HAND WHEEL	CAST IRON (IS 210 Gr. FG 200)
17	WASHER	CARBON STEEL
18	SCREW FOR HAND WHEEL	CARBON STEEL
19	THRUST PLATE	CAST IRON (IS 210 Gr. FG 200)

DIMENSIONAL DATA

SIZE (mm)	50	65	80	100	125	150	200	250	300	350	400	450	500	600
L	178 ^{±2}	190 ^{±2}	203 ^{±2}	229 ^{±2}	254 ^{±2}	267 ^{±2}	292 ^{±2}	330 ^{±2}	356 ^{±2}	381 ^{±3}	406 ^{±3}	432 ^{±3}	457 ^{±3}	508 ^{±3}
~H	341	360	366	432	504	510	684	784	869	975	1063	1200	1300	1500
~ØHW±5	PN 1.0	225	225	225	320	320	360	400	400	500	640	720	720	720
	PN 1.6	280	280	280	360	360	360	450	640	640	-	-	-	-
Øb	50	65	80	100	125	150	200	250	300	350	400	450	500	600
ØD	165	185	200	220	250	285	340	395	445	505	565	615	670	780
T	16	16	21	22	22.5	23	24.5	26	27.5	29	30	31.5	33	36
K	125	145	160	180	210	240	295	350	400	460	515	565	620	725
n	4	4	4	8	8	8	8	12	12	16	16	20	20	20
Ød	19	19	19	19	19	23	23	23	23	23	28	28	28	31