DUCTILE IRON

GATE VALVE

INTRODUCTION

Leader Ductile Iron Gate Valves (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. Outside screw and yoke (OS&Y) feature offer quick visual indicator of open / closed position is required. The OS&Y configuration protects the stem.

PRINCIPAL FEATURES

- Designed as per IS:14846.
- Bolted Bonnet, Outside screw & Yoke type, Rising Stem.
- Solid Wedge, Metal to Metal seating.
- Body & Bonnet castings made of superior Ductile Iron ASTM A395 grade to ensure additional strength.
- Gun Metal Body & Wedge rings, Stainless Steel Stem.
- Compact & rigid structure.
- Provided full flow with minimal pressure drop.
- Small opening and closing torque.
- Outside Screw & Yoke configuration protects the stem & offer quick visual indicator of open / closed position.
- 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.
- Flanged ends as per ASME B16.5 CL-150 (FF).
- Widely applied for low-pressure and ambient-temperature utility services such as water supply, power plants, sewage treatment, gas supply, district heating piping, irrigation projects, air conditioning systems, as well as food processing industry, chemical and petrochemical industry, pharmaceutical and powder industry for access or cut off the medium pipeline opening and closing devices.

END CONNECTION

Flanges as per ASME B16.5 CL-150 (FF), Drilled.
Flange drilling as per other standards also available upon request.

UTILISATION & SERVICE

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

WORKING PRESSURE

Maximum Working Pressure: 20 Bar.
See Pressure / Temperature Diagram.

TEMPERATURE LIMITS

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

Item Code:	DI0058
Pressure Rating:	PN-20
Testing Standard:	As per IS 14846
Size Range:	50mm to 300mm
Product Standard:	As per IS 14846

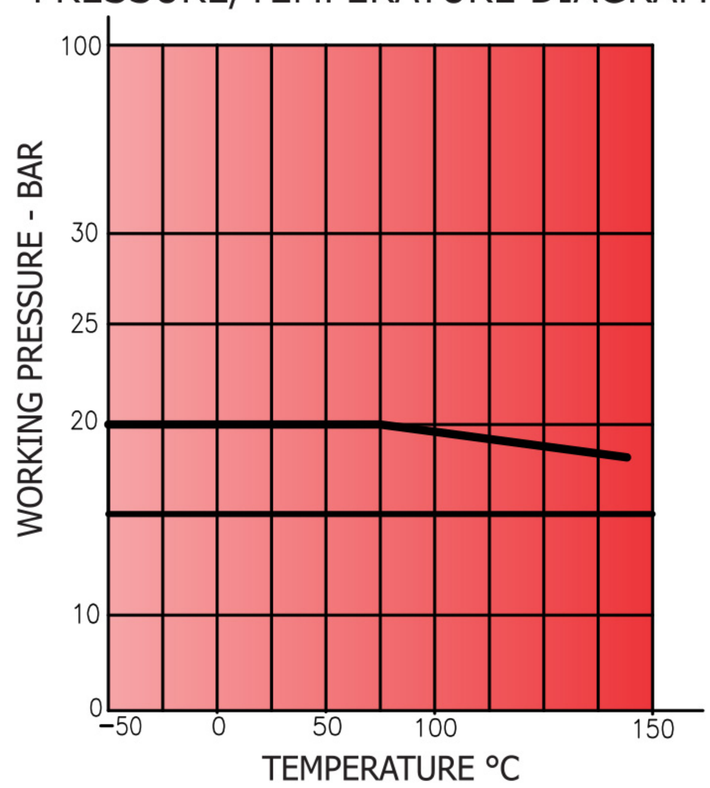
SUITABLE FOR

Water	Oil	Air	Gases	Steam
✓	✓	✓		

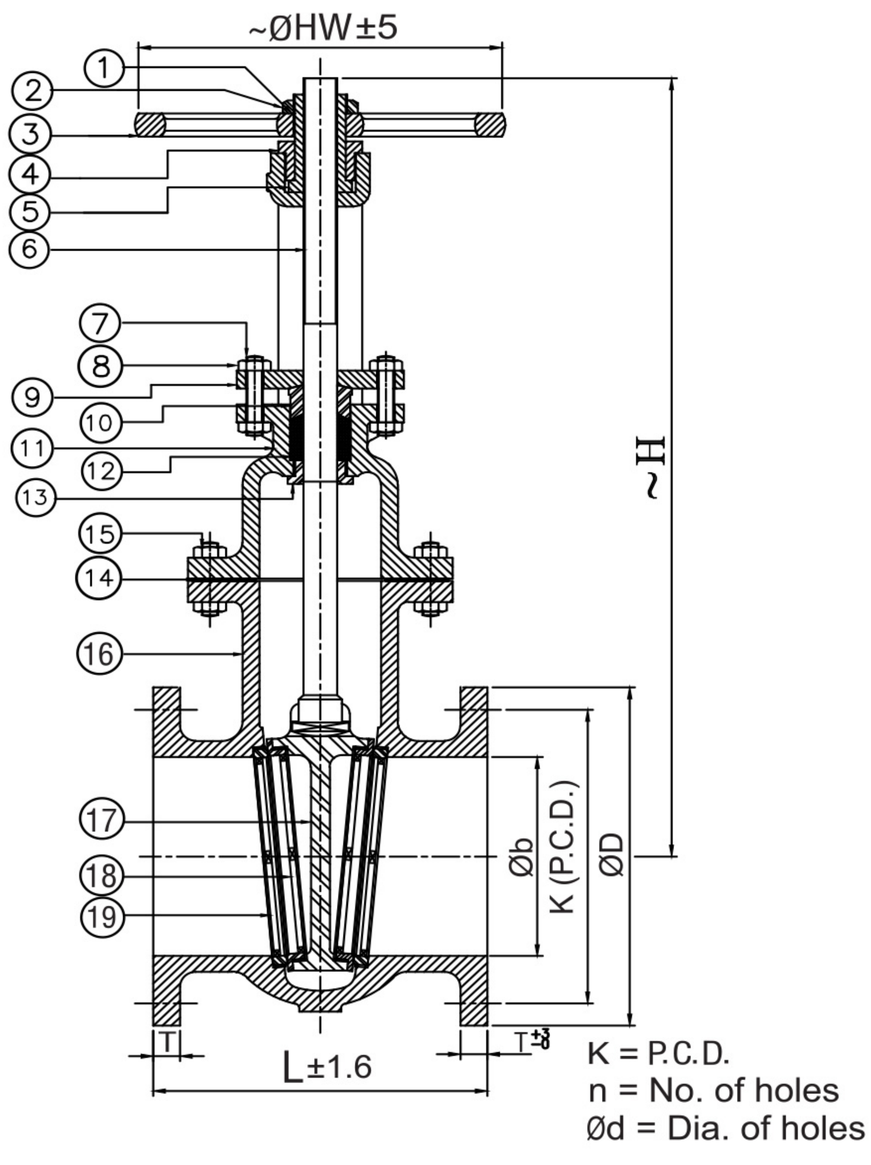
TEST PRESSURE (Hydrostatic)

Rating	PN-20
Body (Hyd.)	30 Bar
Seat (Hyd.)	22 Bar

PRESSURE/TEMPERATURE DIAGRAM



Note : The above data is subject to change without notice due to our continuing product improvement program.



MATERIAL SPECIFICATION

P.No.	NAME OF PART	MATERIAL	SPECIFICATION
1	KEY	CARBON STEEL	-------
2	HAND WHEEL RETAINING NUT	CARBON STEEL	IS 2062 Gr. A
3	HAND WHEEL	CAST IRON	IS 210 Gr. FG 200
4	YOKE SLEEVE RETAINING NUT	LEADED TIN BRONZE	IS 318 Gr.LTB2
5	YOKE SLEEVE	LEADED TIN BRONZE	IS 318 Gr.LTB2
6	STEM	STAINLESS STEEL	ASTM A276 TYPE 410
7	GLAND T-HEAD BOLTS	CARBON STEEL	IS 1363
8	GLAND NUTS	CARBON STEEL	IS 1363
9	GLAND FLANGE	DUCTILE IRON	ASTM A395
10	GLAND FOLLOWER	CAST IRON	ASTM A276 TYPE 410
11	BONNET	DUCTILE IRON	ASTM A395
12	GLAND PACKING	TO SUIT SERVICE CONDITIONS	
13	BACK SEAT BUSHING	STAINLESS STEEL	ASTM A276 TYPE 410
14	GASKET	C.N.A.F.	--------
15	BOLTS & NUTS	CARBON STEEL	IS 1363
16	BODY	DUCTILE IRON	ASTM A395
17	WEDGE	DUCTILE IRON	ASTM A395
18	WEDGE RING	LEADED TIN BRONZE	IS 318 Gr. LTB2
19	BODY SEAT RING	LEADED TIN BRONZE	IS 318 Gr. LTB2

DIMENSIONAL DATA CLASS

SIZE (mm)	50	65	80	100	125	150	200	250	300
$L^{\pm 2}$	178	190	203	229	254	267	292	330	356
T	16.3	17.9	19.5	24.3	24.3	25.9	29	30.6	32.2
Øb	50	65	80	100	125	150	200	250	300
K	120.7	139.7	152.4	190.5	215.9	241.3	298.5	362	431.8
ØD	150	180	190	230	255	280	345	405	485
~H	338	419	466	499	571	649	802	1020	1060
$ØHW^{\pm 5}$	280	280	280	360	360	360	450	640	640
n	4	4	4	8	8	8	8	12	12
Ød	19	19	19	19	22.2	22.2	22.2	25.4	25.4

Note : The above data is subject to change without notice due to our continuing product improvement program.