

DEEPAK[®]

The Guiding Light

VALVES



PRODUCT CATALOGUE

DEEPAK



About us

'DEEPAK' was launched by **CHOPRA BROTHERS** in late 1960's and copyrighted later. The manufacturing plant is located at Jalandhar city of Punjab in North India. **DEEPAK** valves became famous for its unique shape of sluice-gate valve which was later adopted by many other companies. After years and years of hard work and dedication, the company now offers its customers with a wide range of flow control equipments which are manufactured at its modern production facilities.

Today, **DEEPAK** make butterfly valves, ball valves, check valves, globe valves, gate valves, foot valves, strainers etc are one of the finest valves available in the country.

We have superlative manufacturing techniques and testing facilities. Each **DEEPAK** product is made from the finest of materials and is subjected to stringent checks while being continually inspected by qualified personnel at each stage.

Engineers at **DEEPAK** valves are constantly working on fulfilling the quality commitment we make and simultaneously keep on improving further by developing new designs and production technologies.

The Company maintains **5 ISI licenses** and certifications/approvals from various reputed organizations like **ISO, Fire Protection Association of India, Maharashtra Jeevan Pradhikaran, Chennai Metro Water** and many more.

Our Niche Client List Includes

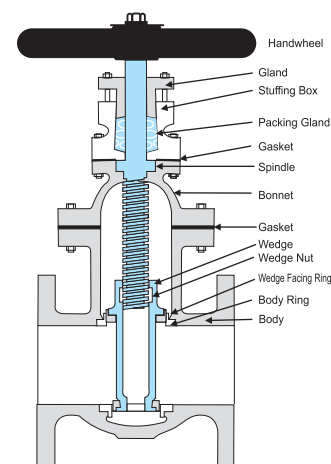


And many other A listed industries and construction companies of India

SLUICE GATE VALVE

DIMENSIONS

SIZES	INCHES	2	2½	3	4	5	6	8	10	12	14	16	18
	MM	50	65	80	100	125	150	200	250	300	350	400	450
LENGTH OVER FLANGES +2		178	190	203	229	254	267	292	330	356	381	406	432
DIAMETER OF STEM 1		22	22	22	27	27	27	32	36	36	42	47	52
DIAMETER IF FLANGES 1.5-1.0		165	185	200	220	250	285	340	395	445	505	565	615
THICKNESS OF FLANGES (3+0.05B)		16	16	21	22	22.5	23	24.5	26	27.5	29.0	30.0	32.0
P.C.D.		125	145	160	180	210	240	295	350	400	460	513	565
NO. OF HOLES x DIA OF HOLES		4x9	4x19	4x19	8x19	8x19	8x23	8x23	12x23	12x23	16x23	16x28	20x28
CENTRE OF TOP OF WIDTH (Max)		160	215	220	250	310	330	460	495	585	730	800	850
CENTRE OF H. WHEEL (Max)		365	390	425	470	540	595	725	835	910	1030	1110	1210
DIAMETER OF HAND WHEEL 3		225	225	225	320	320	320	360	400	400	450	475	500
NOMINAL BORE		50	65	80	100	125	150	200	250	300	350	400	450



IS:14846



CM/L-9315070

Sr. No.	COMPONENTS	MATERIAL	SPECIFICATION
1.	Body	Grey Cast Iron	IS-210-FG200
2.	Bonnet/Cap	Grey Cast Iron	IS-210-FG200
3.	Stuffing Box	Grey Cast Iron	IS-210-FG200
4.	Gland	Grey Cast Iron	IS-210-FG200
5.	Wedge	Grey Cast Iron	IS-210-FG200
6.	Wedge and Body Ring	Leaded Tin Bronze of Stainless Steel	IS-310 LTB2 IS-1570 Part 5 20 CR 13
7.	Wedge Nut	Leaded Tin Bronze of Stainless Steel	IS-318 LTB2 IS-30 HTB2
8.	Stem	High Tensile Brass Stainless Steel	IS-320 HT2 IS-1570 Part 5 20 CR13
9.	Gland Packing	Jute and Hemp	IS-5414
10.	Hand Wheel/Cap	Grey Cast Iron	IS-210-FG200
11.	Washer & Set Screw	Carbon Steel	IS-1367
12.	Gasket	Rubber	IS-638 Type B

Pressure Rating	Body	Seat
	PN 16	PN 16

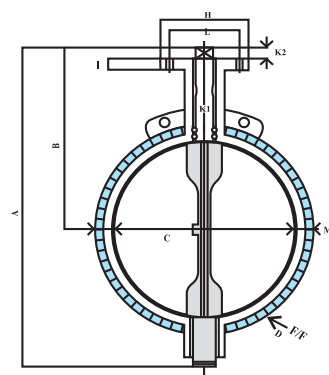
Operation: Wheel Operated

Applications: Used for clear water having turbidity up to 5000 PPM and temperature up to 45° C. Other fluids with maximum pressure / temperature conditions within the scope of IS: 14846. Valves can also be supplied up to 180° C working temperatures with special design, subject to working pressure limitations.

BUTTERFLY VALVE

DIMENSIONS

SIZES INCHES	1½	2	2½	3	4	5	6	8	10	12	14	16	18
MM	40	50	65	80	100	125	150	200	250	300	350	400	450
A	195	216	246	240	265	325	348	450	548	593	670	694	743
B	125	137	148	148	165	192	205	272	306	331	393	409	434
C	42	52.50	66	66	103.50	127	154	201	253	300	342	394	437
D	33	43	46	46	52	56	56	60	68	78	92	102	114
HQ	65	65	65	65	65	90	90	90	125	125	175	175	175
I	13	16	16	16	16	19	19	20	22	22	25	25	25
J	24	25	23	23	22	25	25	17	25	25	36	36	36
K1	12.5	15.40	15.40	15.40	15.40	19.40	19.40	21.40	22.50	22.40	24.40	24.40	24.40
K2	9	14	14	14	14	17	17	17	22	22	25	25	25
L(PCD)	50	50	50	50	50	70	70	70	102	102	140	140	140
M	80	90	107	120	143	176	203	261	312	357	411	455	496
NO. OF HOLES	4	4	4	4	4	4	4	4	4	4	4	4	4
NO. OF HOLES	7	7	7	7	7	8	8	8	11	11	18	18	18



Sr. No.	COMPONENTS	MATERIAL
1.	Body	Cast Iron, SG Iron (Ductile), Bronze
2.	Disc	SG Iron (Ductile), SS - 304
3.	Liner	Nitrile, Neoprene, EPDM, Silicon, Buna-N
4.	Upper & Lower Stem	Stainless Steel, AISI 410, AISI 304
5.	Bushing	Teflon or Nylon
6.	O Rings	Nitrile, Silicon, Viton

Applications:

Paper & Pulp Industry, Waste & Effluent Treatment Plants, Water Treatment, Chemical & Sugar Industry, Fire Fighting, Drilling Rigs, Heating & Air Conditioning, Cooling Water Circulation, Compressed Air, Civil Constructions & numerous other applications.

Pressure Rating	Body	Seat
	PN 10	PN 16

Operation:

Lever Operated & Gear Operated

Temperature Range:

0°C - 120°C

IS:13095



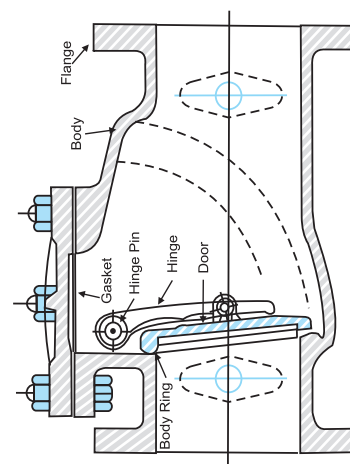
CM/L-9595409

NON RETURN REFLUX VALVE (SWING TYPE) DIMENSIONS

SIZES	INCHES	2	2½	3	4	5	6	8	10	12
	MM	50	65	80	100	125	150	200	250	300
FACE TO FACE		203	216	241	292	330	356	495	622	698
FLANGE DIAMETER		165	185	200	220	250	285	340	395	445
FLANGE THICKNESS		16	16	21	22	22.5	23	24.5	26	27.5
P.C.D.		125	145	160	180	210	240	295	350	400
NO. OF HOLES/DIA		4x19	4x19	4x19	8x19	8x19	8x23	8x23	12x23	12x23
HINGE PIN DIAMETER		10	10	10	12	12	16	20	22	25



Sr. No.	COMPONENTS	MATERIAL	SPECIFICATION
1.	Body, Cover, Door, Bearing Holder & Door Face Disc	Grey Cast Iron	IS-210, 1978 FG 200
2.	Hinges	Grey Cast Iron	IS-210, 1980 FG 200
3.	Hing Pin, Door Pin, Door Suspension Pin	High Tensile Brass	IS-320-1980 HT2, IS-6912, FHTB2 Stainless Steel IS-1570, 91, 12 GRB
4.	Bolts	Carbon Steel	IS-1393-67 Class 1363-67 4-6
5.	Nuts, Nuts of Hinge Pin	Carbon Steel	IS-1363-67 Class 4 IS:1367-67
6.	Bearing Bushes	Leaded Tin Bronze	IS-318, 81 LTB2 Austenitic Iron IS-2749-74
7.	Body Rings	Leaded Tin Bronze	IS-318, 81 LTB2 Stainless Steel 6603-97
8.	Door Faces	Natural/Synthetic Rubber/ Leaded Tin Bronze TB	IS-318, 1981 LTB2
9.	Flange Jointing Material	Natural Rubber	IS-638-79 Type B
10.	+Plugs for Hinge Pins Air Release	Galvanized Malleable Iron



IS:5312

 CM/L-9319179

Applications:

Check valves are used in pipe lines to reduce water hammer and to prevent back flow of water to the pumps from rising mains. These valves are suitable for handling clear water having turbidity of 3000 PPM maximum within the limits of the pressure ratings mentioned overleaf.

Pressure Rating	Body	Seat
	PN 16	PN 16

Operation:

Self Operating Valve

Temperature Range:

Rubber Seated: 0°C - 75°C

Metal Seated: -10°C - 120°C

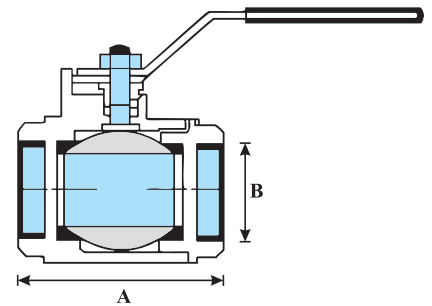
BALL VALVE (Screwed end full bore)

DIMENSIONS

SIZES	INCHES	1/2	3/4	1	1¼	1½	2	2½	3	4
	MM	15	20	25	32	40	50	65	80	100
END (B.S.P.+NEAD) FACE TO FACE (+-2)	A	78	83	91	110	122	137	160	180	232
PLAIN BORE OF BALL & BODY	B	12.7	19.0	25.4	32.0	38.0	51.0	63.5	76.0	102.0



Sr. No.	COMPONENTS	MATERIAL
1.	Body & Connector	Cast Iron, SG Iron, Cast Carbon Steel, Stainless Steel
2.	Ball	AISI 202, AISI 304
3.	Stem	AISI 410, AISI 210, AISI 304
4.	Body & Stem Seals	Teflon (PTFE)
5.	Thrust Washer	M.S.
6.	Handle	M.S.
7.	Handle Sleeve	P.V.C.



Applications:

These valves are widely used in various industrial applications. Our range of cast iron ball valves are highly appreciated for its high quality, durability and corrosion resistance.

Fuel oils, kerosene oils, compressed air, gases, low pressure steam, viscous fluids & hydraulic (water, oil etc.) installations.

Pressure Rating	Body	Seat
	PN 22	PN 16

Operation:

Handle Operated

Temperature Range:

0°C - 100°C

IS:9890

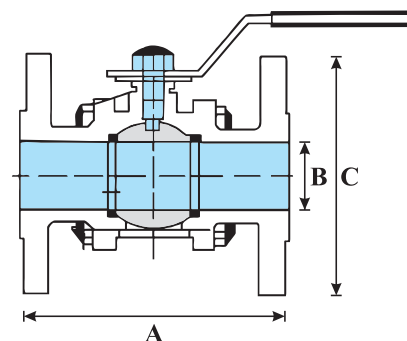


CM/L-9791914

BALL VALVE FLANGED

DIMENSIONS

SIZES	INCHES	1/2	3/4	1	1¼	1½	2	2½	3	4
	MM	15	20	25	32	40	50	65	80	100
BORE DIA (Min)	B	12.7	19.0	25.4	32.0	38.0	51.0	63.0	76.0	102.0
FLANGED THICKNESS (Min)		11.2	11.2	11.2	12.7	14.2	15.7	17.5	19.1	23.9
FACE TO FACE (±2)	A	130	130	140	165	165	203	222	24.1	305
P.E.D. (+-1.0)		60.5	69.9	79.2	88.9	98.6	120.7	139.7	152.4	19.5
FLANGED DIA (+-1.5-1.0)	C	89.0	98.6	108.0	117.3	127.0	152.4	177.8	190.5	228.6
DIA IF BOLT HOLES (+-0.5)		15.7	15.7	15.7	15.7	15.7	19.1	19.1	19.1	19.1
NUMBER OF HOLES		4	4	4	4	4	4	4	4	8



Sr. No.	COMPONENTS	MATERIAL
1.	Body & Connecting Flages	CL-125 & CL-250 in Cast Iron, SG (Ductile) CL-150 & CL-300 Cast Steel & Stainless Steel
2.	Ball	AISI 202, AISI 304
3.	Stem	AISI 410, AISI 210, AISI 304
4.	Body & Stem Seals & Joining Gasket	Teflon (PTFE)
5.	Bolting	CL-125 & CL-150 in Carbon Steel CL-250 & CL-300 in Carbon Steel & Stainless Steel
6.	Handle	Carbon Steel, Stainless Steel
7.	Handle Sleeve	P.V.C.

IS:9890



CM/L-9791914

Applications:

Flanged ball valves are meant for high pressure industrial applications. Our range of cast iron ball valves are highly appreciated for its high quality, durability and corrosion resistance.

Fuel oils, kerosene oils, compressed air, gases, low pressure steam, viscous fluids & hydraulic (water, oil etc.) installations.

Pressure Rating	Body	Seat
	PN 30	PN 20

Operation:

Handle Operated

Temperature Range:

25°C - 150°C

SINGLE PLATE CHECK VALVE

DIMENSIONS

SIZES INCHES	1	1½	2	2½	3	4	5	6	8	10	12
D.N. MM	25	40	50	65	80	100	125	150	200	250	300
BORE C	14	24	30	42	53	75	98	118	155	200	240
F/F A	14	14	14	14	16	18	18	20	22	28	30
DIA B	64	89	97	110	130	160	192	218	272	330	383



Sr. No.	COMPONENTS	MATERIAL
1.	Body	GREY CAST IRON, S.G.I
2.	Disc	MS-IS 2062, SS- 304, S.G.I
3.	Hinge Pin	Carbon Steel, Stainless Steel
4.	'O' Ring	Nitrile, Neoprene, EPDM, Silicon
5.	Eye Bolt	Carbon Steel
6.	Rubber Lining	Nitrile, Neoprene, EPDM, Silicon
7.	Disc Lock Nuts	High Tensile Carbon Steel IS- 1363

Applications:

They are specially designed and developed for applications where a low pressure loss is essential. **DEEPAK** make wafer check valves ensure positive shut-off at even the lowest pressures. **Due to their compact design and relatively low cost, wafer check valves are most preferred in HVAC and fire fighting projects.**

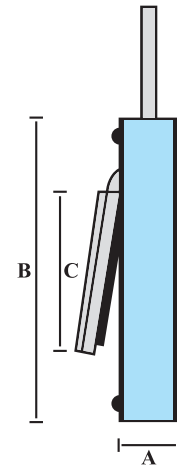
Pressure Rating	Body
	PN 10

Operation:

Self Operative Valve

Temperature Range:

-20°C - 120°C



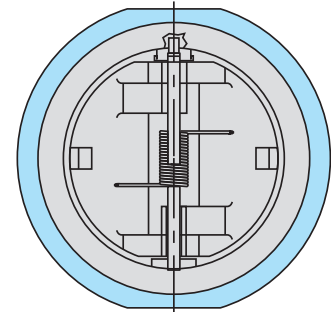
DUAL PLATE CHECK VALVE

DIMENSIONS

SIZES INCHES	2	2½	3	4	5	6	8	10	12
D.N. MM	50	65	80	100	125	150	200	250	300
BORE E	38	50	60	80	100	120	160	210	260
F/F B	55	55	58	64	72	78	98	175	182
DIA D	97	110	130	160	192	218	272	330	383



Sr. No.	COMPONENTS	MATERIAL
1.	Body	C.I./WCB
2.	Disc	SFI, S.S - 304
3.	Hinge Pin	AISI-304
4.	Stop Pin	AISI-304
5.	Stop Pin	Stainless Steel
6.	Retainer	EN-8, Stainless Steel
7.	Body Bearing	Teflon
8.	Plate Bearing	Teflon
9.	Eye Bolt	M.S
10.	Seat	Nitrile, EPDM
11.	Seal Plug	Nitrile, EPDM



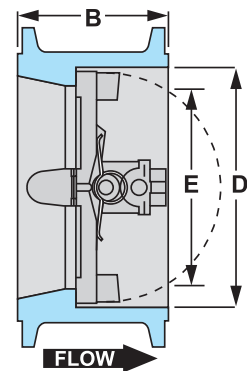
Typical Applications:

The Dual Plate Check Valve is a most versatile design available in specific materials constructions to suit particular Pressure, Temperature and Fluid / Flow Characteristics. Some of the Typical Applications are as follows:

Water: Water Supply Systems, Fire Water Systems, Cooling Water, Chilled / Hot Water Systems, Boiler Feed etc.

Oil & Gas: Onshore / Offshore, Petroleum, Lubricating Oil, Edible Oils, LPG, LNG, Sour Gas Low Temperature, Cryogenic Applications etc.

There is a solution to almost all NON-Return (Check Valve) problems, varying from Fire Safe Services to Cryogenic conditions with a suitably designed Dual Plate Check Valve.



Pressure Rating	Body
	PN 10

Operation:

Self Operating

Temperature Range:

-20°C - 120°C

GATE VALVE

DIMENSIONS

SIZES	INCHES	1/2	3/4	1	1¼	1½	2	2½	3	4
	MM	15	20	25	32	40	50	65	80	100
A		60	60	71	81	91	103	106	121	137
B*		97	116	127	137	158	182	220	240	285
Ø		8	9	9	9	12	12	14	14	18

* Approx

Tolerance: ± 1.5 mm in 'A', -0 mm in Ø



Sr. No.	COMPONENTS	MATERIAL	SPECIFICATION
1.	Body, Bonnet, Gland Nut & Hand Wheel	Cast Iron	IS-210 GR, FG 200
2.	Wedge (Seat)	Bronze/Cast Iron	LTB2 IS-318-1981
3.	Stem	Brass/ Stainless Steel	IS-3488/IS-226/AISI-410
4.	Gland Packing	Asbestos Yarn	IS-4687-1980
5.	Screw/Bolt, Nut & Washer	Carbon Steel	IS-226

- Best in class gate valve with the highest wall thickness in the industry.

Applications:

Fuel oils, kerosene oils, compressed air, gases, low pressure steam, viscous fluids & hydraulic (water, oil etc.) installations.

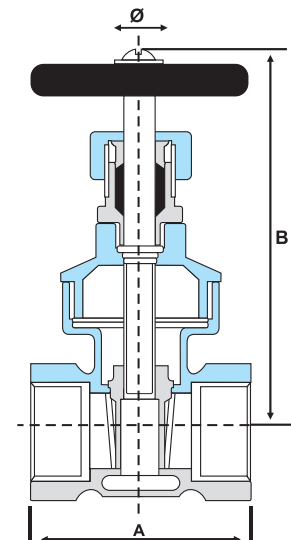
Pressure Rating	Body	Seat
	16 kg/Cm ²	24 kg/Cm ²

Operation:

Hand Wheel Operated

Temperature Range:

0°C - 100°C



FOOT VALVE

DIMENSIONS

SIZES INCHES	2	2½	3	4	5	6	8	10	12
MM	50	65	80	100	125	150	200	250	300
H	150	185	205	225	245	310	405	490	532
K DIA	122	136	161	165	212	290	436	478	553
No. or DOORS	1					2			



Sr. No.	COMPONENTS	MATERIAL
1.	Housing, Seat, Strainer,	Cast Iron IS-210, GR. FG 200
2.	Door Plate	S.G. Iron
3.	Hinge Pin	SS ASTM A 276, Type 410
4.	Door Face	Natural Rubber with Reinforcement of Cotton Canvas

Features:

- Door Plate is made of specially casted S.G. Iron to handle sudden pressure changes.
- The seating design provides positive shut-off at all pressure ranges without additional loading on the seal.

Applications:

Foot Valves are used in suction side of the pumps to avoid flow reversal from pump to the sump, in order to maintain pump priming. They also prevent entry of foreign body into pump through suction pipe. These valves are suitable for having clear water.

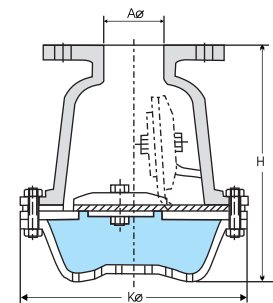
Pressure Rating	Body	Seat
	10 kg/Cm ²	16 kg/Cm ²

Operation:

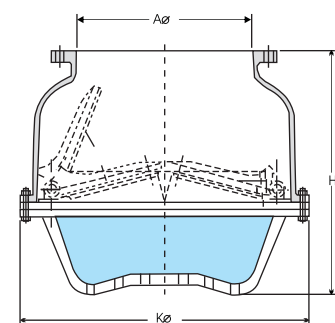
Self Operating

Temperature Range:

0°C - 75°C



VIEW FOR VALVE SIZES
UPTO & INCLUDING 150 mm



VIEW FOR VALVE SIZES
UPTO 200 mm & ABOVE

STRAINER 'Y' TYPE

DIMENSIONS

SIZES	INCHES	2	2½	3	4	5	6	8
	MM	50	65	80	100	125	150	200
A		210	250	255	300	390	384	520
B		175	184	227	250	275	265	420
D		165	184	203.2	220	279	285	368
T		19	19	19	23.8	23.8	25.4	28.6

Tolerance: ± 1.5 mm in 'A', ± 1 mm in 'D', -0 mm in 'T'



Sr. No.	COMPONENTS	MATERIAL	SPECIFICATION
1.	Body & Bonnet	Cast Iron	IS-210 GR, FG 200
2.	Mesh/Filter	Stainless Steel	AISI-304
3.	Nut & Bolt	Mild Steel	IS-226
4.	Gasket	Compressed Asbestos	IS-2712 GR.C
5.	Spring Washer	Spring Steel

Applications:

Filtration of liquids, Water, Lube & fuel oil, Chemicals etc. in the pipe lines and to protect equipment. The stainless steel filter helps filtering the corrosive debris as well without getting damaged ensuring its long life.

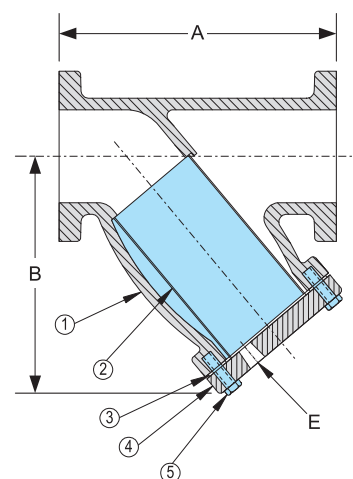
Pressure Rating	Body
	PN 16

Operation:

Self Operating Valve

Temperature Range:

0°C - 120°C



STRAINER 'T' TYPE

DIMENSIONS

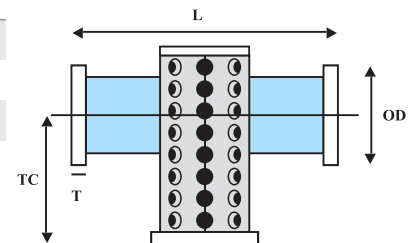
SIZES INCHES	3	4	6
NB	80	100	150*
L±3	202	232	300
OD	200	230	280
TC	120	138	165
T	22	22	26

***Note**

Larger size strainers can be provided upon request in fabricated type construction.



Sr. No.	COMPONENTS	MATERIAL
1.	Body	CAST IRON
2.	Screen	SS - 304
3.	Strainers	GALVANIZED MILD STEEL
4.	Cover Seal	EPDM / VITON / NEOPRENE / PTFE



Applications:

T-Type strainers have the capability of effectively picking up dirt and solid granules from the pipelines. They find applications in various industries like food, pharmaceuticals, marine industry etc.

Pressure Rating	Body
	PN 10

Operation:

Self Operating Valve

Temperature Range:

0°C - 100°C

WHEEL VALVE

DIMENSIONS

SIZES	INCHES	1/2	3/4	1	1¼	1½	2	2½	3	4
	MM	15	20	25	32	40	50	65	80	100
FACE TO FACE	A	82	92	104	118	125	148	168	188	200
FLANGE DIA	D	95	105	115	140	150	165	185	200	220
FLANGE THICKNESS	T	8	9	10	12	13	15	17	18	20
DIA OF STEM	C	9	9	10	10	12	12	14	16	20

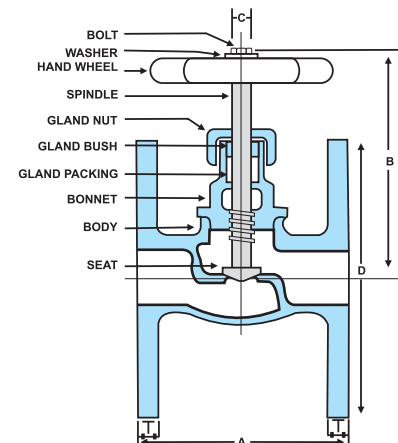


Sr. No.	COMPONENTS	MATERIAL	SPECIFICATION
1.	Body, Bonnet Grand Nut, Hand Wheel	Cast Iron	IS-210 Fg 200
2.	Gland Bush	Brass	
3.	Spindle & Seal	Brass & Telleon Washer	IS-3488
4.	Gland Packing	Asbestos Yarn	IS-4687-1980

*Available in both side flanged & one side screwed pattern

Applications:

These valves are mostly used in power grid industries and in transformers to control the flow of high temperature oils and lubricants. Suitable for hot water, kerosene oil, low pressure hot gases etc. Perfect PTFE seat makes our wheel valves live through the toughest conditions while ensuring perfect sealing.



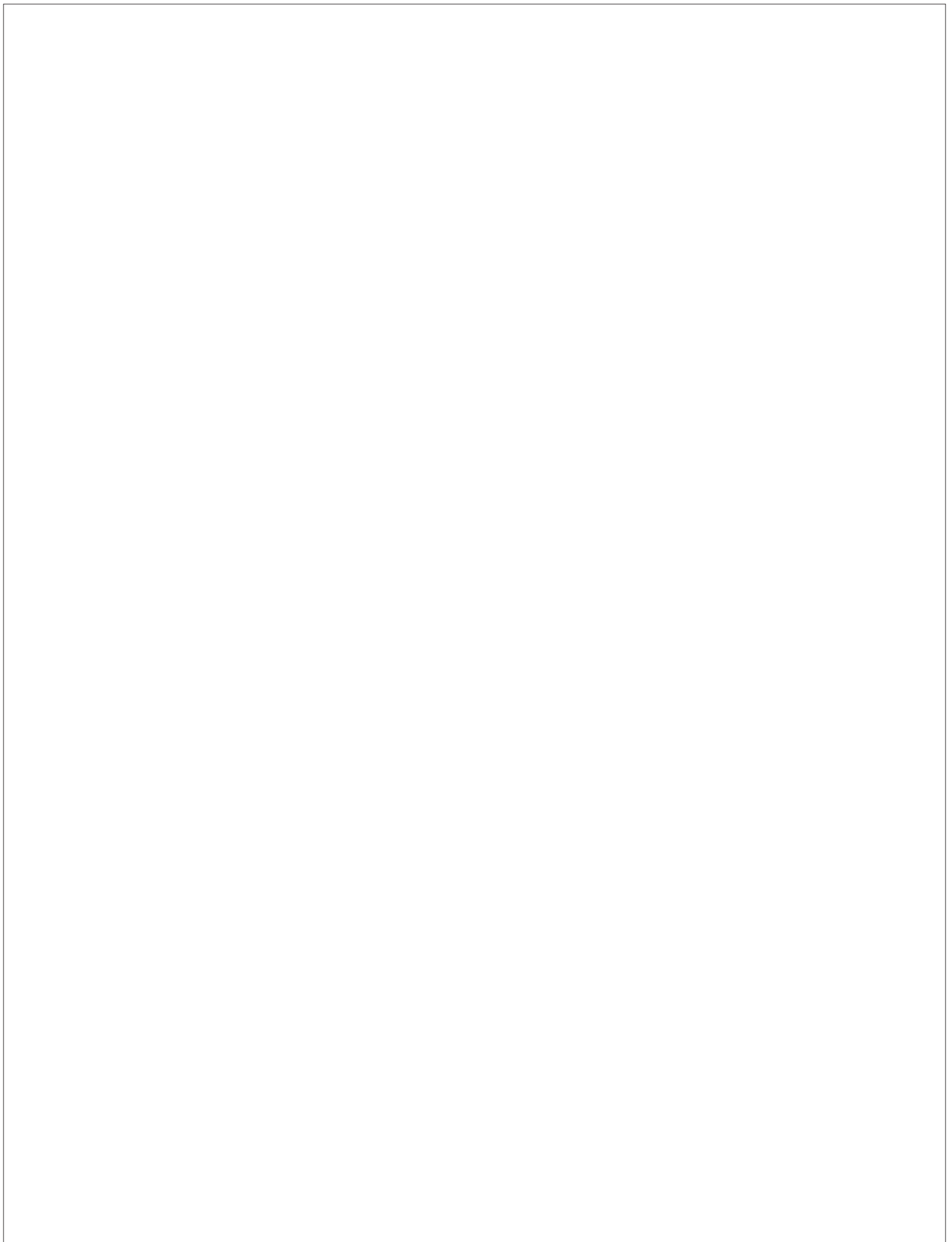
Pressure Rating	Body	Seat
	16 kg/Cm ²	16 kg/Cm ²

Operation:

Hand Wheel Operated

Temperature Range:

10°C - 200°C





Free of Cost
replacement for any kind of
manufacturing defects. This is
valid for 18 months

GUARANTEE

from the date of manufacturing or
12 months after installation,
which ever is earlier.

"Efforts mixed with ultimate engineering resulting in the perfect flow control products for the toughest conditions possible"

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