

Our Dream Our Reality

We are pleased to introduce ourselves as a leading manufacturer of DPP brand thermoplastic valves. Established in 1975, our Company has grown steadily, with a strong foundation of technical, commercial and production facilities.

Our Company has a team of enterprising working partners and a dedicated workforce. This has consistently contributed to up gradation in products, quality, size, range, production capacity, new developments and innovation. DPP processes in excess of 100 TPA of various thermoplastics only in the manufacture of valves.

Coday, DPP manufactures a wide range of valves from high quality imported thermo plastics.

Our greatest pride and satisfaction is in the fact that several hundreds of our customers have standardized on our products, which is evident from the regular repeat orders we receive and that almost all Consultants specify DPP when a new project or an expansion requires PP, HDPE or PVDF valves.

CVPe, at DPP believe that our quality, growth and overall development is not by accident; but it is a result of intelligent foresight, determined efforts, dedicated team work and above all due to the inspiration and encouragement from our valued customer and our engagement with Consultancy Companies.



Quality is Our Qualification

Product Range

Product Name	Size			
3 piece design Ball Valves	15 mm to 150 mm			
Butterfly Valves	80 mm to 300 mm			
Diaphragm Valves	15 mm to 100 mm			
Ball Check Valves	15 mm to 150 mm			
Foot Valves	25 mm to 150 mm			
Sight Glass Valves	15 mm to 150 mm			
Pipe Fittings	160 mm to 1200 mm			

Material Range Martin

Material Type	Manufacture and Country	Temperature Range*					
Isotactic PP	Basell, Europe, Australia	Upto 90°C					
Isotactic PPH	Basell, Europe	Upto 115°C					
HDPE	Basell, Europe	Upto 60°C					
PVDF	Arkema, USA	Upto 130°C					
Alloy Isotactic PP	**	Upto 105°C Upto 90°C					
Alloy Isotactic HDPE	**						
* Temperature Range mentioned may vary upon service condition. **The basic imported granules are from Basell, Europe.							



Sr. No.	Items	Parameter	Type of Check	Quantum	Acceptance Criteria	Reference	Record
	A. Incoming	Inspection		<u> </u>	1		
1	Raw Material	a) Intactness b) Grade Confirmation	Visual Visual	5 bags/lot 5 bags/lot	No damage information on packaging material grade Verification	1) Purchase order 2) Supplier's challan	1) Inward inspection repor
		c) Physical Verification	Visual	5 bags/lot	on bag No damage to package		2) Supplier challan
2	Moulds	1) Physical 2) First sample	Visual Measure	First Sample	As per drawing	As per drawing	Inward inspection report
3	Packaging Material	Physical	Visual	5% per lot	No damage	Supplier's challan purchase followed	1) Supplier's challan inward inspection report
	B. Inprocess	Inspection :	/alves & Pip	e Fittings			
1	Moulding Operation	Dimension and Physical Verification	Measure Visual	First sample 100%	Drawing, no deformities no surface porosity	Drawing	
2	Machining	Dimension	Measure	100%	Drawing	Drawing	
3	Assembly of Valves	Physical Verification Dimension	Visual Measure	100%	Proper within limits	Assembly drawing	Final inspection report
	C. Final Insp	ection : Valve	s				
1	Hydro Testing 1) Body testing 2) Seat testing	Leakage test Leakage test	Visual check Visual check	100% 100%	No Leakage No Leakage		Final inspection report
2	PCD Drilling Check	Dimension	Dimension	As per sampling plan inspection report	Within limits	Drawing	
3	Packing	Packing of finished goods	Visual	100%	Intactness of package	Order register	Delivery Challan/Invoice





PVDF Lined PP Ball Valve



PVDF Lined PP Ball Valve We have developed a Ball Valve that is chemically resistant to most of aggressive chemicals up to 120°C temp. and economical compared to solid PVDF Ball Valve and Teflon Lined metallic valves.

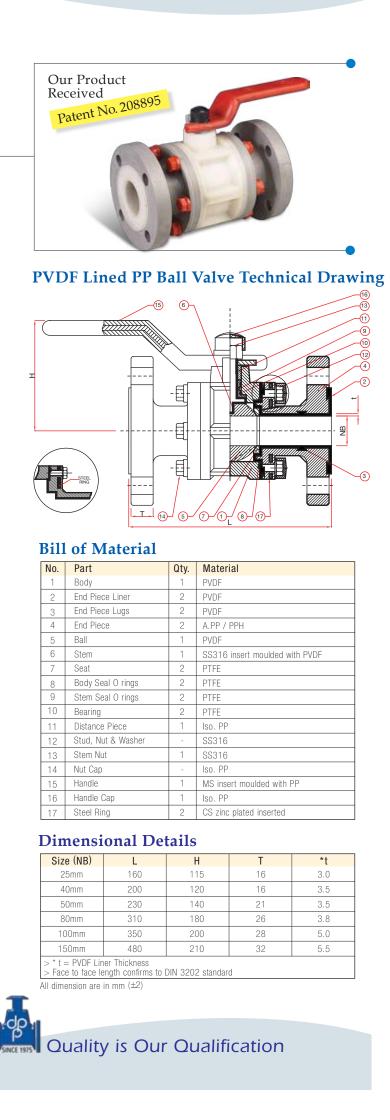
This valve has a solid PVDF body, solid PVDF Ball, PVDF coated (Moulded) SS-316 stem, only two flanged ends have inner liners (moulded 3.75mm to 5.5mm thick) of PVDF and on this liners, Polypropylene flanged ends are moulded. So all chemicals comes in contact with PVDF and Teflon Materials only. Body to ends sealing & stem sealing

'O' Rings are of pure Teflon. To compress these Teflon 'O' Rings firmly, a steel ring insert of 5mm thick is moulded in flanged ends. SS-316 inserted stem, metal inserted handle and stopper ensures sturdi-

ness and long service life. We use virgin imported PVDF and Polypropylene materials of grades that are internationally popular, especially used for manufacturing of valves and fittings. Size Range: 25 mm NB to 150 mm NB.

Drilling: As per all internationally accepted standards, such as BS, DIN, ASA 150 etc.

Hydrostatic Test: At 10kg/sq.cm.g for Body and Seat.





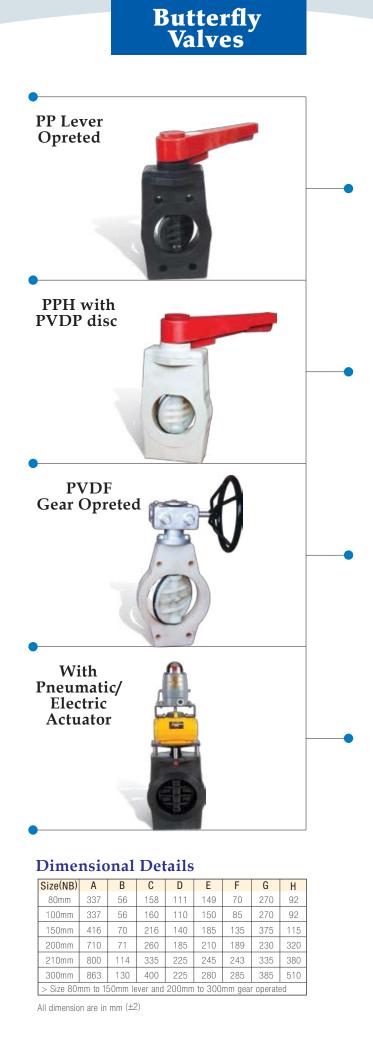
Features of DPP 3-Piece Ball Valve

- Valves are of three piece design, fitted with six set of metallic studs and nuts which contributes to their sturdy construction.
- Valves have full bore; thereby, allowing full 100% flow. • Body and Stem seals are offered in various elastomers like EPDM, Neoprene, Hyplon, Butyl, Viton and also in
- PTFE for chemical resistance against most chemicals. • Valves with PTFE seals are provided with steel ring
- inserts which gives better sealing and safetyfeatures. • Steel inserts in stem and handle give more strength, sturdiness, longer life and better performance.
- Carbon black resists ultraviolet rays and prevents degradation of polypropylene in sunlight exposure. • Available in screwed end connections also. Size Range: 15 mm NB to 150 mm NB. Drilling: As per all internationally accepted standards,
- such as BS, DIN, ASA 150 etc. Hydrostatic Test: At 10 kg/sq.cm.g for Body and Seat.

Ball Valve Technical Drawing

		aterial						
No.	Part		Qty.	Materia	al			
1	Body		1	Iso. PP/	/PPH/PVDF/A.	PP/A. HD		
2	End piece		2		/PPH/PVDF/A.			
3	Ball	-	1	Iso. PP/	/PPH/PVDF/A.	PP/A. HD		
4	Stem		1		MS/SS304/SS316 insert moulded with Iso. PP/PPH/PVDF/A. PP/A. HD			
5	Seat		2	PTFE				
6	Body Sea	l O rinas	2	EPDM/NEOPRENE/PTFE/VITON				
7	Stem Sea	0	2	EPDM/NEOPRENE/PTFE/VITON				
8	Bearing	di o i nigo	1	PTFF				
9	Bearing		1	Iso. PP				
10	Distance	Piece	1	Iso. PP				
11		& Washer	-	MS/SS304/SS316				
12	Stem Nut		1					
				MS/SS304/SS316				
13	Nut Cap		-	Iso. PP				
14 15	Handle Handle C		1	Iso. PP	ert moulded with	1 PP		
Din	nensi	onal Do		6	1			
	e (NB)	L		H	Т	Torque Nm		
	5mm	130		15	13.0	7.00		
	0mm	150		15	14.0	8.00		
	5mm 2mm	200		15 20	16.0 18.0	10.84		
	20000 0mm	200		20	18.0	20.00		
	Omm	230		40	19.0	21.69		
	5mm	310		80	22.0	51.27		
	Omm	310		80	24.0	51.27		
	00mm	350		200	26.0	84.30		
	50mm	480	_	210	32.0	185.86		
> Face to face length confirms to		ength confirms	to DIN 32					

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Features of **DPP** Butterfly Valve

- Slips-in between line flanges, Wafer/Sandwich type, lug style, compact design, light in weight, easy to install. • Elastomer-seat provides bubble tight shut-off.
- Rigid body, sturdy construction, long trouble-free life. • Ratchet lever mechanism permits locking of disc
- position determined by system requirement. • Wetted parts only of PP/PVDF, HDPE/SS and
- elastomer compatible with fluid. • Square section shaft provides positive engagement between shaft and disc, between shaft and lever ensuring positive shut-off with quarter turn operation. • Suitable for flow in either direction, seals in both
- directions and can be installed in either vertical or horizontal lines. • Also available with double flanged end connection.
- Size Range : 80 mm NB to 300 mm NB Drilling : As per all internationally accepted standards, such as BS, DIN, ASA, 150, etc. Hydrostatic Test: At 10 kg/sq.cm.g for Body and 6 kg/sq.cm.g for Seat.

Butterfly Valve Technical Drawing (10) R 3 (11) \overline{O} 6 Ŀ. -(8) 1 9) 2 -(13) -(12) **Bill of Material** Part No. Qty. Material Iso. PP / PPH / PVDF / A. PP/ A. HD Body Iso. PP / PPH / PVDF / A. PP/ A. HD 2 Disc 1 3 Cover 1 Iso. PP / PPH / PVDF / A. PP/ A. HD 4 PP Glassfilled with SS inserts Handle 1 5 Shaft (square) SS316 1 6 3 PVDF Bushing 7 Lever Rod 1 SS316 Bush Seal O rings EPDM / NEOPRENE / VITON 8 5 EPDM / NEOPRENE / VITON 9 1 Seal Ring 10 Сар 1 A. PP A. PP Ratchet Lever 11 1 Spring Washer SS316 12 2 Cap Screw 1 SS316 13 14 Plug 1 Iso. PP SS316 15 Lock Pin 2

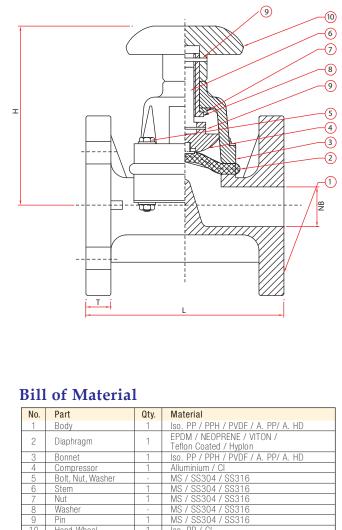
Diaphragm Valves

PP **PVDF** With **Pneumatic/** Electric Actuator Screwed **Dimensional Details** Size (NB) Н L Torque Nm Т 15mm 82 12.5 4.93 6.40 20mm 14.0 126 158 16.0 25mm 8.87 32mm 40mm 50mm 190 19.0 24.65 42.39 80mm 254 42.39

Features of **DPP** Diaphragm Valve

- One piece sturdy body with cross ribs to reinforce end flanges. • Latest inverted design diaphragm remains unstressed while valve is in closed position gives more service life. • Deep seat allows maximum flow & excellent throttling
- characteristics. • Available with Neoprene, EPDM, Hyplon, Butyl, Viton,
- Teflon-coated and pure PTFE diaphragms. Available in screwed end connections also.
- Size Range : 15 mm NB to 100 mm NB Drilling : As per all internationally accepted standards, such as BS, DIN, ASA 150, etc. Hydrostatic Test : At 10 kg/sq.cm.g for Body and Seat.

Diaphragm Valve Technical Drawing



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Washe 9 Pin 10 Hand Wheel

Ball Check Valves

100mm

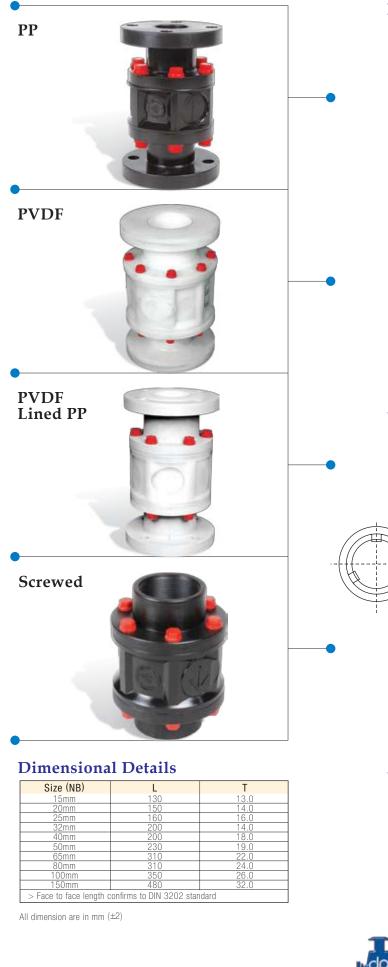
335

Handwheel up to 50mm PP above 50mm C

All dimension are in mm (±2)

272

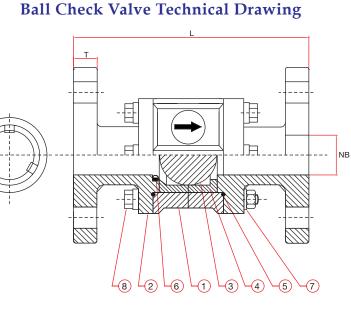
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Features of DPP 3 - Piece Ball Check Valve

<u>Iso. PP</u> / Cl

- Free floating ball allows maximum flow through valve. • The only moving part is the ball, so maintenance is reduced/nil.
- The solid polypropylene/ PVDF ball seated on elastomer seatgives no chance for leakage.
- Ball fully supported by guide ribs for full flow and minimum turbulence. • Available with various elastomer seats like Neoprene,
- Hyplon, EPDM, Viton for compatibility with different chemicals. • Tight shut-off achieved at a minimum of 1 Meter Water
- Column. • Available in screwed end connections also. Size Range: 15 mm NB to 150 mm NB.
- Drilling: As per all internationally accepted standards, such as BS, DIN, ASA 150 etc.
- Hydrostatic Test: At 10 kg/sq.cm.g for Body and Seat.



Bill of Material

No.	Part	Qty.	Material
1	Body	1	Iso. PP/PPH/PVDF/A. PP/A. HD
2	End piece	2	Iso. PP/PPH/PVDF/A. PP/A. HD
3	Ball	1	Iso. PP/PPH/PVDF/A. PP/A. HD
4	Ball Guide Ring	1	Iso. PP/PPH/PVDF/A. PP/A. HD
5	Body Seal O ring	2	EPDM/NEOPRENE/PTFE/VITON
6	Ball Seal O ring	1	EPDM/NEOPRENE/VITON
7	Stud, Nut & Washer	-	MS/SS304/SS316
8	Nut Cap	-	Iso. PP

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Size (NB)

25mm

32mm

40mm

50mm

65mm

80mm

100mm

150mm

Н

192

204

213

305

305

425.0

628.0

L 64.0

64.0

135.0

135.0

167.0

167.0

295.0

All dimension are in mm (±2)

reaucea/nii.
The solid polypropylene/ PVDF ball seated on elastomer
seatgives no chance for leakage.

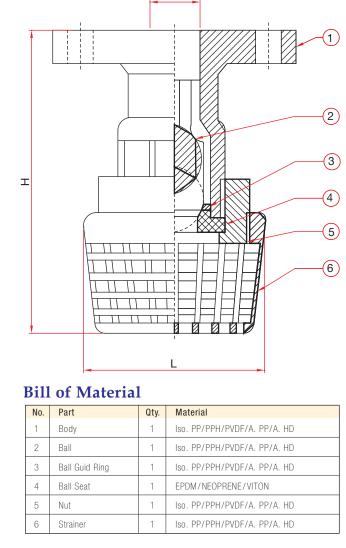
Features of DPP 3-Piece Ball Check Valve

• Ball fully supported by guide ribs for full flow & minimum turbulence. • Available with various elastomer seats like Neoprene,

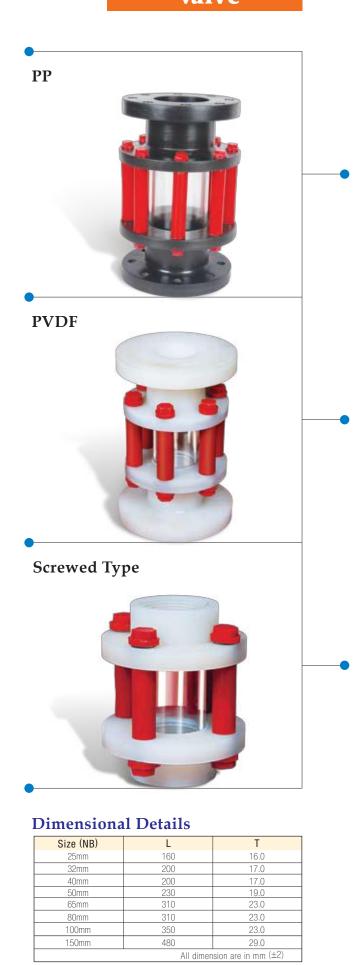
• Free floating ball allows maximum flow through valve. • The only moving part is the ball, so maintenance is

- Hyplon, EPDM, Viton for compatibility with different chemicals. • Tight shut-off achieved at a minimum of 1 Meter Water Column.
- Available in screwed end connections also. Size Range: 15 mm NB to 150 mm NB. Drilling: As per all internationally accepted standards,

such as BS, DIN, ASA 150 etc. Hydrostatic Test: At 10 kg/sq.cm.g for Body and Seat. Foot Valve Technical Drawing NB

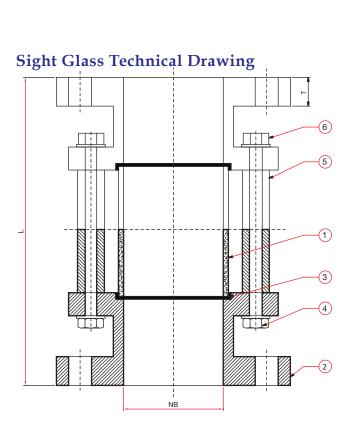


Sight Glass Valve



Features of **DPP** Sight Glass Valve

- Three-piece design, sturdy construction.
- With full view window of tonghened glass tube. • Available with various elastomers or PTFE seals to handle aggressive chemicals.
- Available in flanged as well as screwed end connections. • Size Range : 15 mm NB to 150 mm NB
- Drilling : As per all internationally accepted standards such as BS, DIN, ASA 150 etc.
- Hydrostatic Test : At 10 kgs/sq.cm.g for Body & seat.



Bill of Material No. Part Qty. Material

	1	Glass Tube	1	Borosil
	2	End piece	2	Iso. PP / PPH / PVDF / A. PP/ A. HD
	3	Seat	2	EPDM / PTFE / VITON
	4	Stud, Nut and Washer	-	MS / SS304 / SS316
	5	Sleeve	-	lso. PP
	6	Nut Cap	-	lso. PP
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Details of Drilling Standard

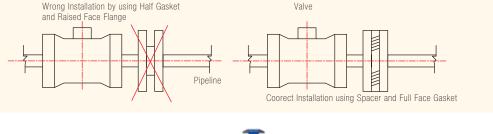
Size (NB)	Description of Dimension	BS.10	BS.10 T-D	BS.10 T-E	BS.10 T-F	ANSI B-16.5	ASA 150	DIN. PN10 IS 6392 T 11 & 17	BD 4504 T 6/3 or IS 6392 T 5 & 6	JIS
	THICK	13	13	13	13	11	11	14	12	12
1/2"	OD	114	95	95	95	88.9	89	95	80	95
⁹² 15MM	PCD	83	67	67	67	60.3	60	65	55	70
I OIVIIVI	HOLE DIA.	18	14	14	14	14	14	14	11	15
	NO. OF HOLES	4	4	4	4	4	4	4	4	4
	THICK	13	13	13	13	12.7	11	16	14	14
3/4"	OD	114	102	102	102	98.4	98	105	90	100
20MM	PCD	83	73	73	73	69.8	70	75	65	95
	HOLE DIA.	18	14	14	14	14	14	14	11	15
	NO. OF HOLES	4	4	4	4	4	4	4	4	4
	THICK	14	13	13	13	14.2	11	16	14	16
1"	OD	121	114	114	121	107.9	108	115	100	125
25MM	PCD	87	83	83	87	79.3	79	85	75	90
Lonnin	HOLE DIA.	18	14	14	18	14	14	14	11	19
	NO. OF HOLES	4	4	4	4	4	4	4	4	4
	THICK	16	16	16	16	15.2	13	16	16	16
1 1⁄4"	OD	133	121	121	133	117.4	117	140	120	135
32MM	PCD	98	87	87	98	88.9	89	100	90	100
	HOLE DIA.	18	14	14	18	14	14	18	14	19
	NO. OF HOLES	4	4	4	4	4	4	4	4	4
	THICK	17	16	16	16	17.4	14	16	16	18
1 1⁄2"	OD	140	133	133	140	127	127	150	130	140
40MM	PCD	105	98	98	105	98.4	98	110	100	105
	HOLE DIA.	18	14	14	18	14	14	18	14	19
	NO. OF HOLES	4	4	4	4	4	4	4	4	4
	THICK	19	19	19	19	19	16	18	16	20
2"	OD	165	152	152	165	152.4	152	165	140	155
50MM	PCD HOLE DIA.	127 18	114 18	114	127 18	120.4	121	125 18	110	120
	NO. OF HOLES	4	4	4	4	18	18 4	4	4	4
	THICK	19	19	19	19	22.2	17	21	16	22
2 1/2"	OD	184	165	165	184	177.8	178	185	160	175
65MM	PCD HOLE DIA.	145 18	127 18	127	145 18	139.7 18	140 18	145 18	130	140 19
	NO. OF HOLES	4	4	4	8	4	4	4	4	4
	THICK	22	19	19	19	23.8	19	20	18	22
3"	OD PCD	203 165	184 145	184 145	203 165	190.5 152.4	191 152	200	190 150	185 150
80MM	HOLE DIA.	18	145	145	18	152.4	152	18	18	19
	NO. OF HOLES	8	4	4	8	4	4	8	4	8
	THICK	-	22	22				-		24
	OD	25 229	22	22	22 229	23.8 228.6	24 229	20 220	18 210	24
4"	PCD	191	178	178	191	190.5	191	180	170	175
100MM	HOLE DIA.	18	18	18	18	18	18	18	18	19
	NO. OF HOLES	8	4	4	8	8	8	8	4	8
	THICK	25	22	22	25	25.4	25	22	20	25
	OD	305	279	279	305	25.4 279.4	25	280	20	25
6"	PCD	260	235	279	260	241.3	241	240	205	240
150MM	HOLE DIA.	200	18	18	200	241.5	22	22	18	23
	NO. OF HOLES	12	8	8	12	8	8	8	8	8
						1		-	-	

Precautions for Installation of Valves • Valve should not be installed under tension and at least one technically qualified person should be present while the installation is going on. E.g.: Total face to face length of the valve-200mm. Then distance between tow flanges should be 200mm + 3mm X 2 Gasket+1mm clearance = 207mm max. There are chances of leakage if installed under tension.

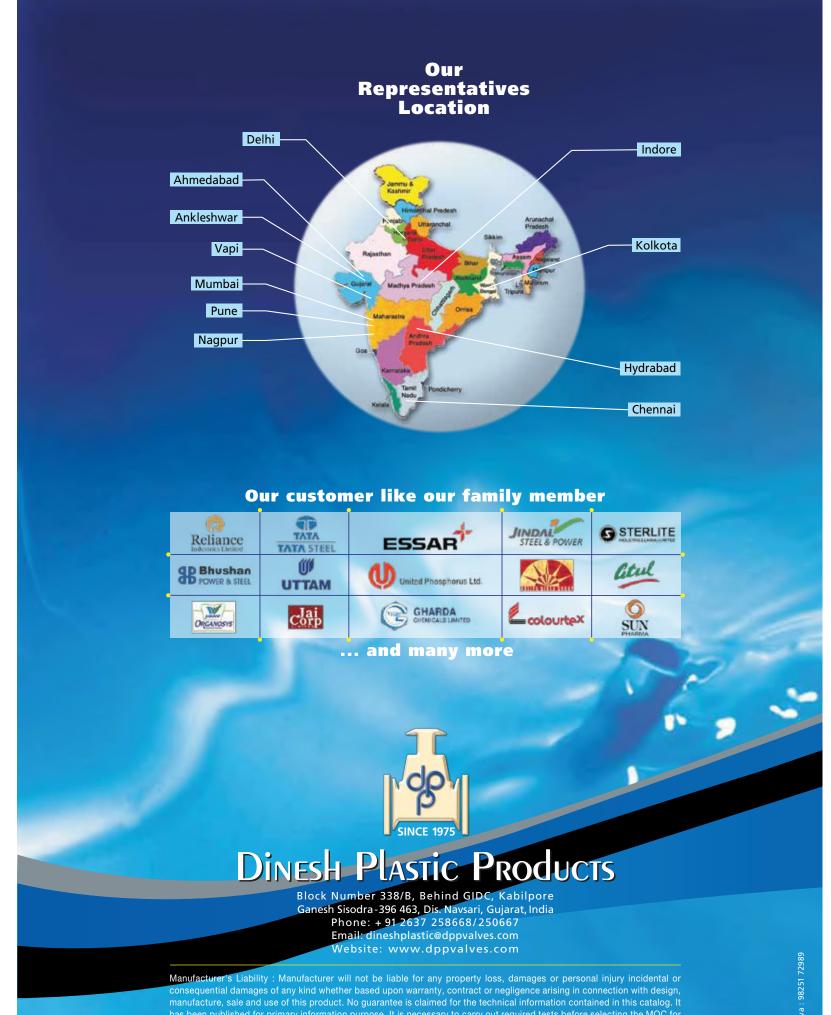
• If it is observed that the gap in the pipeline where the valve is to be fixed is more then required and the line is rigid, cannot be moved then use of spacer is absolutely necessary.Valve body should be properly supported so that the torque generated while operating the valve will not damage the pipeline. • Uniform fitting of all flange bolts is essential to get long service form the valves. Gasket used should be full and flat faced, preferable of rubber which is flexible Avoid use of rigid gasket like PTFE / PVC since they will not provide proper sealing in case of plastic valves, thus sometimes higher pressure may be applied for sealing which could result in the breakage of valve.
Companion flanges between which the valve is to be installed should be flat face only. If raised face flanges are provided, due to more gap between valve flange and companion flange, valve flange may buckle at the time of tightening, sometime end piece may also be pulled apart resulting into leakage of the valve (as shown In fig A-A)

• When valve are installed in C.S or M.S./R.L. piping, care should be taken that the pipeline should be in one axis. If there is any deflection. The whole tension will come on the valve, which may result in breakage / leakage. Secondly valve and pipe are to be fully supported; pipe load should

not come on the valve.



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particular application. Specifications and dimensions are subject to change without notice due to, continuous research and