

FLUSH BOTTOM VALVE

INTRODUCTION

Flush Bottom Valves are used in piping, reactors & vessels to drain out Liquids, Abrasive, Slurry, Viscous Material or Semi Solid Media.

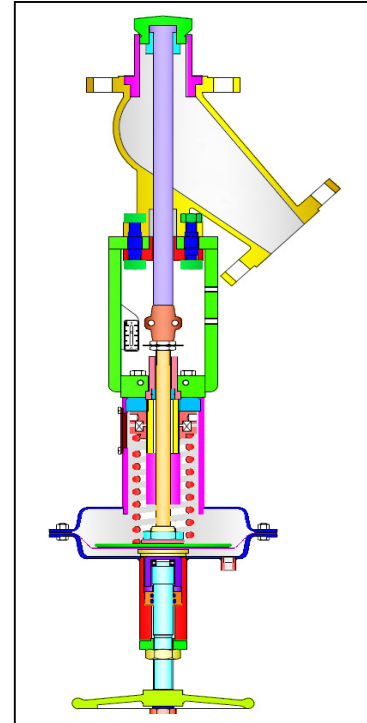
Flush Bottom Valves are Available in design of Disc opening into the Tank (Vessel Opening Design) & Disc Lowering (Inside Valve Opening Design) into the Valve Body.

Flush Bottom Valves with disc opening into the tank or opening upwards is the most commonly used. It is used where enough space is available between Bottom pad and the stirrer of the tank. The mass load inside the tank helps closing & tight shut off the Flush Bottom Valve.

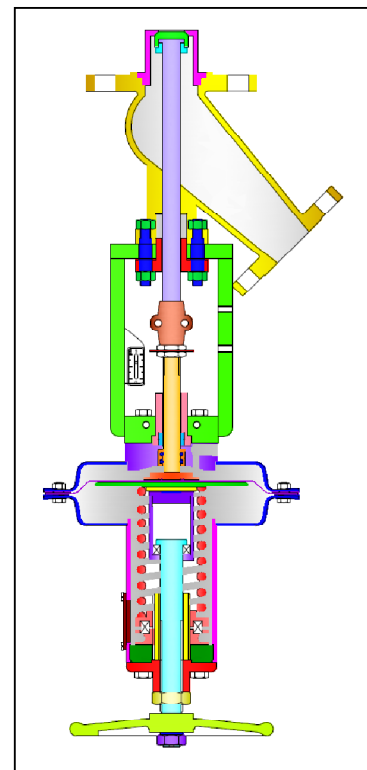
Normally, the inlet size of a standard flush bottom valve is one size higher than that of the outlet size. There are special constructions possible with both sizes same. The outlet port is at an angle to the inlet port. Normally 45 or 60 degree deviation is provided. The end connection are normally flanged.

SPECIFICATIONS

DESIGN	: Plug Type.
TYPE	: Valve with Disk Opening into the Tank - (Series - 510)
	: Valve with Disk Opening into the Valve - (Series - 520)
VALVE SIZE	: 40 to 200 mm (1.1/2" to 8")
RATING	: ANSI 150#.
END CONNECTION	: Flanged.
BODY MATERIALS	: Carbon Steel, S.S.304, S.S.316, S.S.304L, S.S.316L, Alloy 20, Hast Alloy & As per Special Specifications.
PLUG	: Large Seat Contact Area, Open Inside Vesel or Inside Valve Body
GLAND PACKING	: PTFE V Rings & Grafoil.
CHARACTERISTICS	: On-Off.
SEAT	: PTFE Soft Seat.
ACTUATOR TYPE	: Diaphragm, Cylinder or Electric.
ACTUATOR ACTION	: Direct / Reverse Acting.
DIAPHRAGM	: Nitrile.
SPRING RANGES	: 3 – 15 PSIG (0.2 – 1.0 Kg/cm ²) : 6 – 30 PSIG (0.4 – 2.0 Kg/cm ²)
AIR SUPPLY	: 20 – 35 PSIG (1.4 – 2.5 Kg/cm ²)
AIR CONNECTION	: 1/ 4"
HANDWHEEL	: Top or Side Mounted Handwheel
ACCESSORIES	: Airset, Solenoid Valve, Air Lock, Volume Booster, Limit- Proximity Switches etc.



**FLUSH BOTTOM VALVE
WITH DIRECT ACTUATOR
SERIES - 510**



**FLUSH BOTTOM VALVE
WITH REVERSE
ACTUATOR
SERIES - 520**

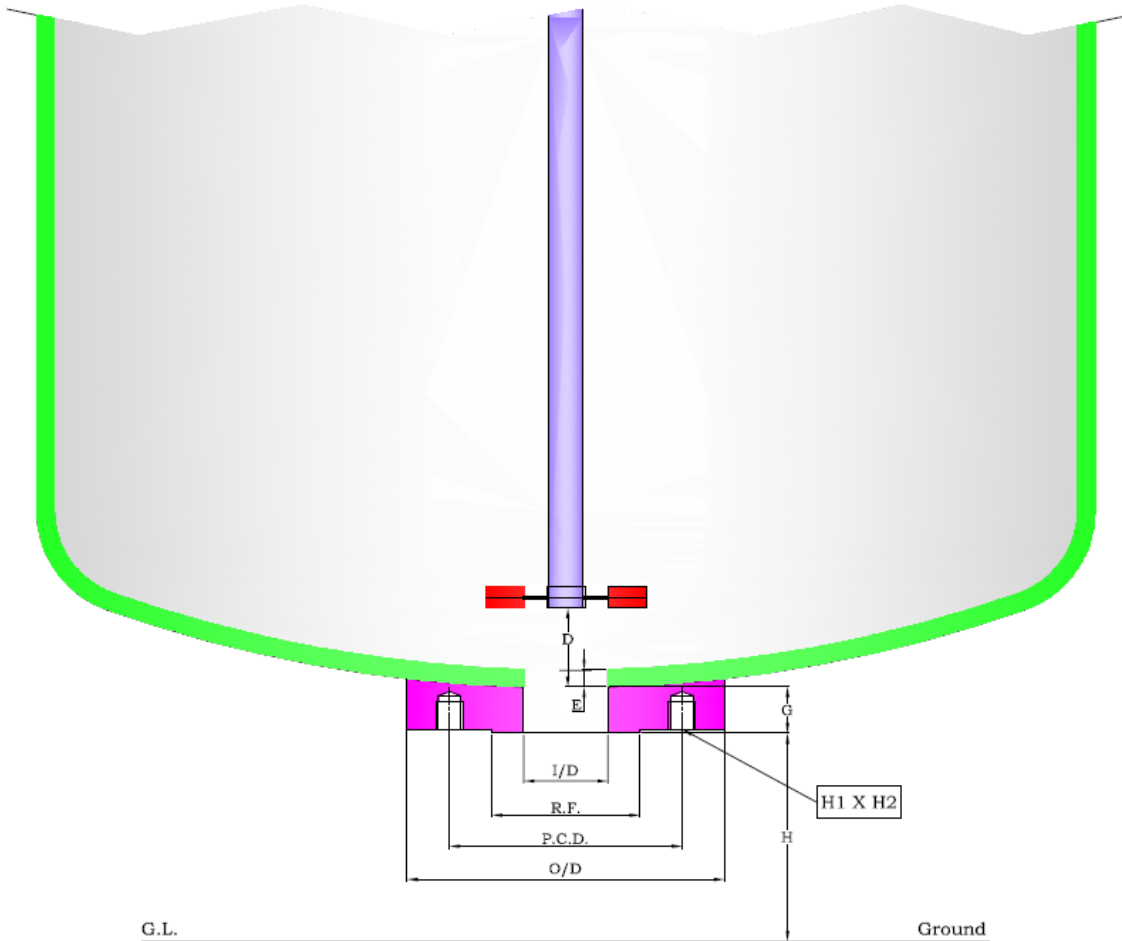
BUILT IN RELIABILITY

PVCT-500

DESIGN FEATURES

- >> Unique Design Of Flush Bottom Valves assure " Zero - Hold Up" in the bottom pad of the Tank Facilitate the free flow & quick Discharge of the Liquid or slurry Through the Valve.
- >> Conical Metal to Metal Disc Seating / PTFE Seating with option of fixed or replaceable seat. Metal Seating can be hard faced by Stellite, where distortion of Seat by aggressive liquid or slurry is common.
- >> Flush Bottom Valve can also be provided with the temperature sensors to measure the temperature in the vessel.
- >> Bolted Stuffing Box (Gland), easily adjustable & with Repaceable Service.

MOUNTING PAD DETAIL REQUIRED



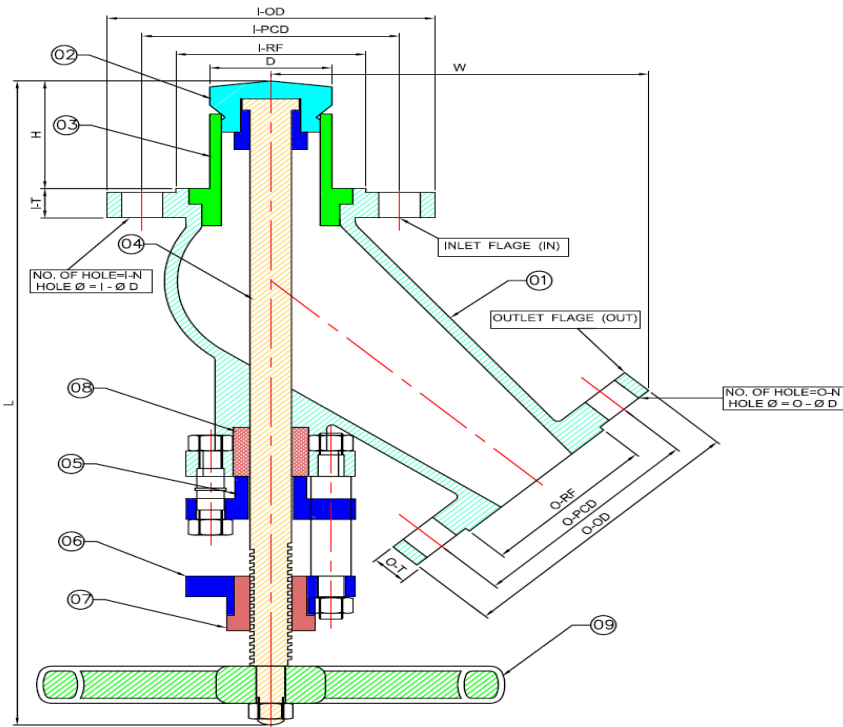
FOLLOWING PAD DIMENTIOS DETAILS REQUIRED FOR FLUSH BOTTOM VALVE

O/D OF PAD:-	-
P.C.D. OF PAD:-	-
DIA R.F:-	-
I/D OF PAD:-	-
D:-	-
G:-	-
H1:-	-
H2:-	-
H:-	-
TANK WALL THK E:-	-

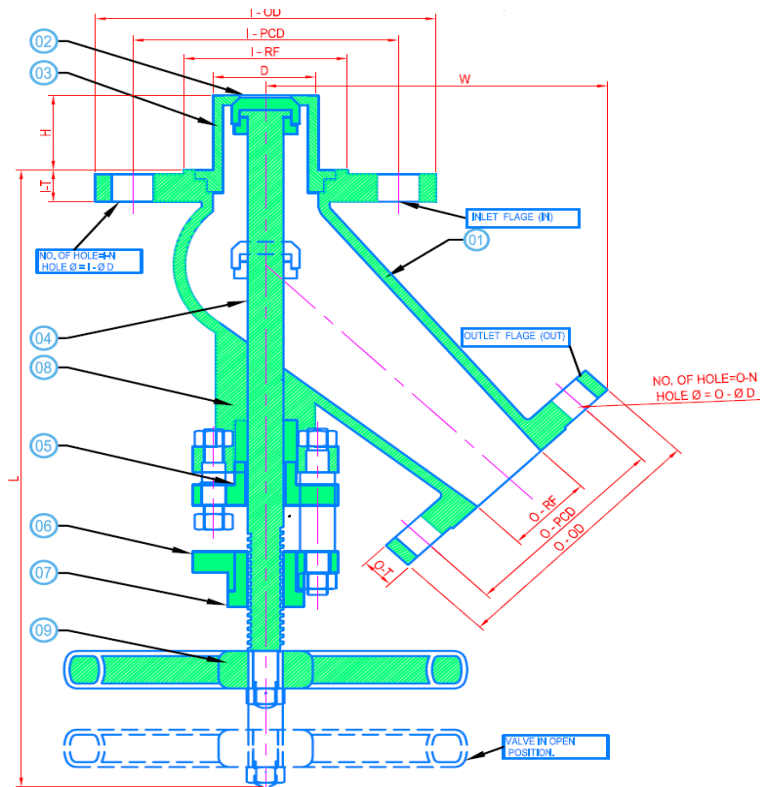
D : DISTANCE OF STIRRER FORM PAD
G : THICKNESS OF PAD
H1 : No. Of HOLE
H2 : BOLTS HOLES SIZE
H : DISTANCE BETWEEN GROUND & BOTTOM PAD

BUILT IN RELIABILITY

VALVE WITH DISK OPENING INTO THE TANK - (SERIES - 510)



VALVE WITH DISK OPENING INTO THE VALVE - (SERIES - 520)



BUILT IN RELIABILITY

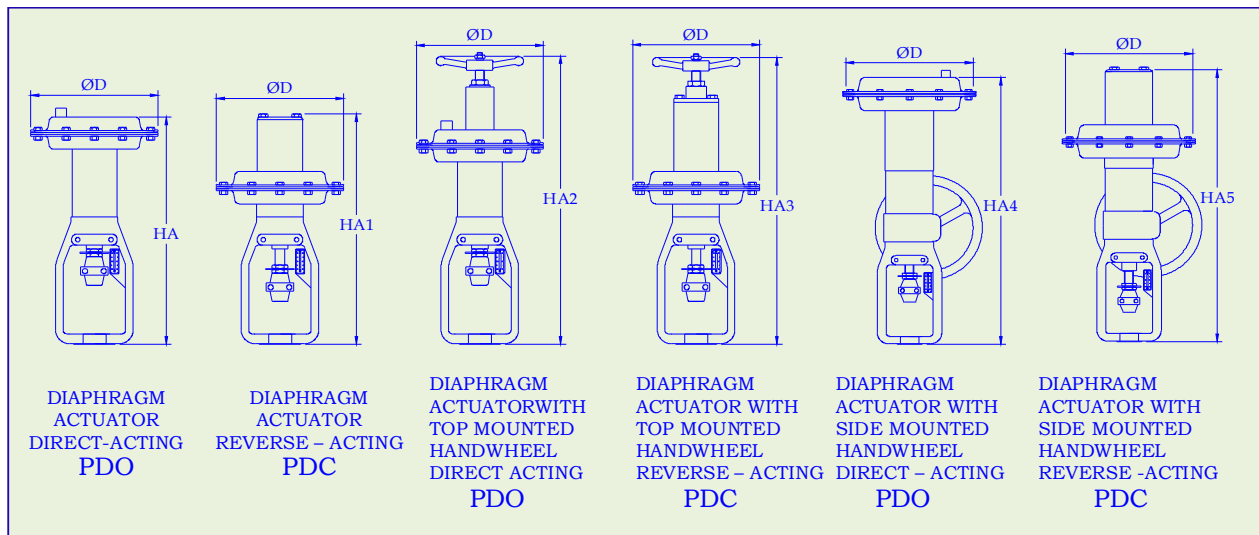
VALVE WITH DISK OPENING INTO THE TANK - (SERIES - 510)

FLUSH TANK BOTTOM VALVE FLANGE ENDDISC SPENING INTO THEE TANK																		
SIZE (mm)			APPROX	H	D	APPROX	INLET FLANGE ASA 150#					OUTLET FLANGE ASA 150#						
IN	OUT	L	W			I-O/D	I-PCD	I-RF	I-N	I-ØD	I-T	O-O/D	O-PCD	O-RF	O-N	O-ØD	O-T	
20	20	200		↑ TO BE SPECIFIRD BY CLIENT ↓	↑ TO BE SPECIFIED BY CLIENT ↓	105	98.4	69.8	42.9	4	16	11.0	98.4	69.8	42.9	4	16	11.0
25	20	205				105	107.9	79.4	50.8	4	16	11.0	98.4	69.8	42.9	4	16	11.0
25	25	250				125	107.9	79.4	50.8	4	16	11.0	107.9	79.4	50.8	4	16	11.0
40	25	255				125	127.0	98.4	73.0	4	16	16.0	107.9	79.4	50.8	4	16	16.0
40	40	280				156	127.0	98.4	73.0	4	16	16.0	127.0	98.4	73.0	4	16	16.0
50	40	285				156	152.4	120.6	92.1	4	19	17.5	127.0	968.4	73.0	4	16	16.0
50	50	305				176	152.4	120.6	92.1	4	19	17.5	152.4	120.6	92.1	4	19	17.5
80	50	310				176	190.5	152.4	127.0	4	19	19.0	152.4	120.6	92.1	4	19	17.5
80	80	365				219	190.5	152.4	127.0	4	19	19.0	190.5	152.4	127.0	4	19	19.0
100	80	370				219	228.6	190.5	157.2	8	19	24.0	19.05	152.4	127.0	4	19	19.0
100	100	450				252	228.6	190.5	157.2	8	19	24.0	228.6	190.5	157.2	8	19	24.0
150	100	460				252	279.4	241.3	215.9	8	19	25.4	228.6	190.5	157.2	8	19	24.0
150	150	550				305	279.4	241.3	215.9	8	19	25.4	279.4	241.3	215.9	8	19	25.4
200	150	560				305	342.9	298.4	269.9	8	22	28.6	279.4	241.3	215.9	8	19	25.4
200	200	680				400	342.9	298.4	269.9	8	22	28.6	342.9	298.4	269.9	8	22	28.6

VALVE WITH DISK OPENING INTO THE VALVE - (SERIES - 520)

FLUSH TANK BOTTOM VALVE FLANGE ENDDISC SPENING INTO THEE TANK																		
SIZE (mm)			APPROX	H	D	APPROX	INLET FLANGE ASA 150#					OUTLET FLANGE ASA 150#						
IN	OUT	L	W			I-O/D	I-PCD	I-RF	I-N	ØM	I-T	O-O/D	O-PCD	O-RF	O-N	O-ØD	O-T	
20	20	200+H		↑ TO BE SPECIFIRD BY CLIENT ↓	↑ TO BE SPECIFIED BY CLIENT ↓	105	98.4	69.8	42.9	4	16	11.0	98.4	69.8	42.9	4	16	11.0
25	20	230+H				105	107.9	79.4	50.8	4	16	11.0	98.4	69.8	42.9	4	16	11.0
25	25	275+H				125	107.9	79.4	50.8	4	16	11.0	107.9	79.4	50.8	4	16	11.0
40	25	280+H				125	127.0	98.4	73.0	4	16	16.0	107.9	79.4	50.8	4	16	16.0
40	40	305+H				156	127.0	98.4	73.0	4	16	16.0	127	98.4	73.0	4	16	16.0
50	40	310+H				156	152.4	120.6	92.1	4	19	17.5	127	968.4	73.0	4	16	16.0
50	50	345+H				176	152.4	120.6	92.1	4	19	17.5	152.4	120.6	92.1	4	19	17.5
80	50	350+H				176	190.5	152.4	127.0	4	19	19.0	152.4	120.6	92.1	4	19	17.5
80	80	415+H				219	190.5	152.4	127.0	4	19	19.0	190.5	152.4	127.0	4	19	19.0
100	80	420+H				219	228.6	190.5	157.2	8	19	24.0	19.05	152.4	127.0	4	19	19.0
100	100	525+H				252	228.6	190.5	157.2	8	19	24.0	228.6	190.5	157.2	8	19	24.0
150	100	535+H				252	279.4	241.3	215.9	8	19	25.4	228.6	190.5	157.2	8	19	24.0
150	150	650+H				305	279.4	241.3	215.9	8	19	25.4	279.4	241.3	215.9	8	19	25.4
200	150	660+H				305	342.9	298.4	269.9	8	22	28.6	279.4	241.3	215.9	8	19	25.4
200	200	780+H				400	342.9	298.4	269.9	8	22	28.6	342.9	298.4	269.9	8	22	28.6

BUILT IN RELIABILITY



ACTUATOR MODEL	BONNET MOUNT DIA.	TRAVEL	ØD	HA	HA1	HA2	HA3	HA4	HA5
PDC - 030	54	28	220	-	348	-	493	-	575
PDO - 030	54	28	220	363	-	518	-	564	-
PDC - 055	54	28	288	-	488	-	571	-	691
PDO - 055	54	28	288	471	-	678	-	673	-
PDC - 055	71.5	38	288	-	537	-	616	-	739
PDO - 055	71.5	38	288	519	-	727	-	721	-
PDC - 095	54	28	371	-	507	-	609	-	724
PDO - 095	54	28	371	502	-	709	-	705	-
PDC - 095	71.5	38	371	-	571	-	653	-	773
PDO - 095	71.5	38	371	552	-	759	-	754	-
PDC - 140	71.5	38	443	-	600	-	699	-	742
PDO - 140	71.5	38	443	572	-	858	-	820	-
PDC - 140	90.5	57	443	-	731	-	834	-	977
PDO - 140	90.5	57	443	707	-	994	-	955	-
PDC - 300	71.5	57	616	-	818	-	-	-	1142
PDO - 300	71.5	57	616	773	-	-	-	1098	-
PDC - 300	90.5	90	616	-	984	-	-	-	1303
PDO - 300	90.5	90	616	934	-	-	-	1262	-

- DVO - Direct Acting Actuator (used on supply failure Valve – Opens)
- DVC – Reverse Acting Actuator (used on supply failure Valve – Closes)
- All dimensions in mm.
- The Company's policy is one of continuous product improvement and the right is reserved to modify the

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