

DEMBLA VALVES LTD.



Dembla

FLUSH BOTTOM VALVE



SERIES - 9100

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Aiming at perfection

More Info - www.dembla.com

FOREWORD

Dembla manufactures **Series 9100 Flush Bottom Valves** for processed material discharging applications. These valves are mounted on the bottom most portion or at the outlet of vessels, tanks, etc.

These valves are more popular in batch industries or pharmaceutical industries.

Valve sizes are designated by two numerals, First number stands for size of inlet flange connection that is fixed to the tank or vessel bottom pad, Second number stands for port size as well as outlet pipe and its flange size. Inlet flanges are always one size larger in size than the outlet flanges.

The outlet flange is inclined 45° to the axis of the valve.

CONSTRUCTION

Valves are available in two types of constructions.

While opening

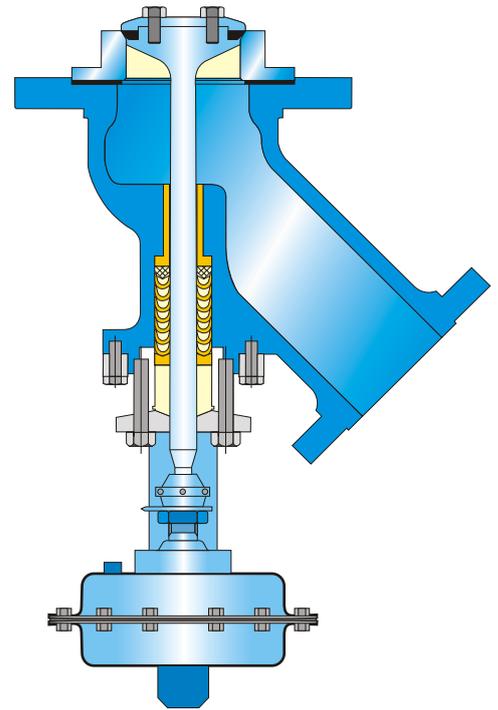
- Plug protrudes into vessel.
- Plug retracts into body.

FEATURES

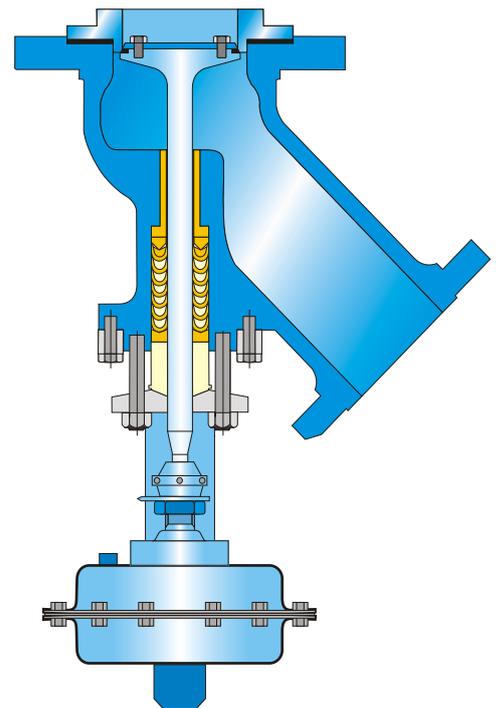
Body internal construction provides resistance free flow path.

The plug and guide bush have been designed to avoid accumulation of flowing material at the guide bush area in all conditions of plug movement.

Whenever fluids that tend to solidify at lower temperature are to be discharged in hot conditions to avoid their solidification within the valve, the bodies are provided with **OIL / HOT WATER / STEAM JACKETING** arrangements.



PLUG PROTRUDES INTO VESSEL

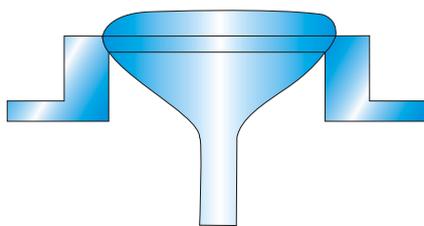


PLUG RETRACTS INTO BODY

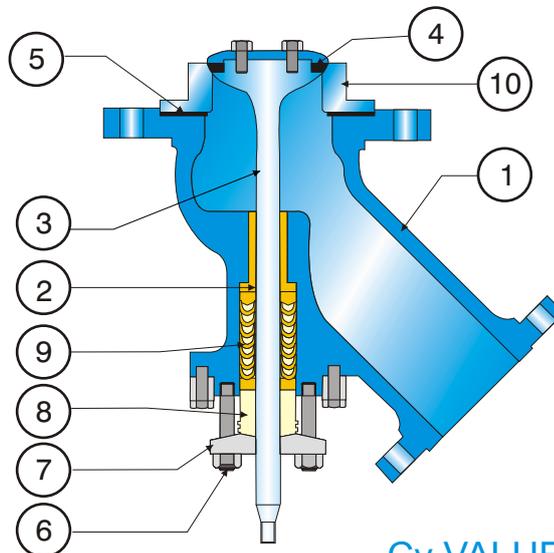
SPECIFICATIONS

Sizes (Inch) (mm)	:	1 ½ x 1 40 x 25	2 x 1 ½ 50 x 40	2 ½ x 2 65 x 50	3 x 2 ½ 80 x 65	4 x 3 100 x 80	6 x 4 150 x 100	8 x 6 200 x 150
Ratings	:	ANSI 150#, Equivalent in BS and DIN ANSI 300# available on request						
End Connection	:	Flanged with Raised face with facing 125-250 AARH smooth						
Valve Body MOC	:	Carbon Steel ASTM A 216 Gr. WCB Stainless Steel ASTM A 351 Gr. CF8M All Other Grades available on request						
Trim MOC	:	SS 316 + P.T.F.E. as Standard All Other Materials available on request						
Gland Packing	:	V-Teflon - 150 to +200°C Grafoil - 150 to +600°C						
Leakage Rate	:	As per ANSI / FCI 70-2 Class VI (with Soft Facing) Tight Shutoff Class V (With Metal to Metal Seating)						
Flow Characteristics	:	On-Off (Regulating Duty available on request)						
Plug Construction	:	Disc Type						
Temperature Range	:	-150 to +600° C						
Actuators	:	Diaphragm Pneumatic Type as Standard Single Acting / Double Acting Cylinder available on request						
Manual Overrides	:	Top Mounted Version						
Accessories	:	Air Filter Regulators, Solenoid Valves, Limit/Proximity Switches, Air Lock Relays, Volume Boosters & Quick Exhaust Valves etc.						

VALVE BODY SET



METAL TO METAL SEATING

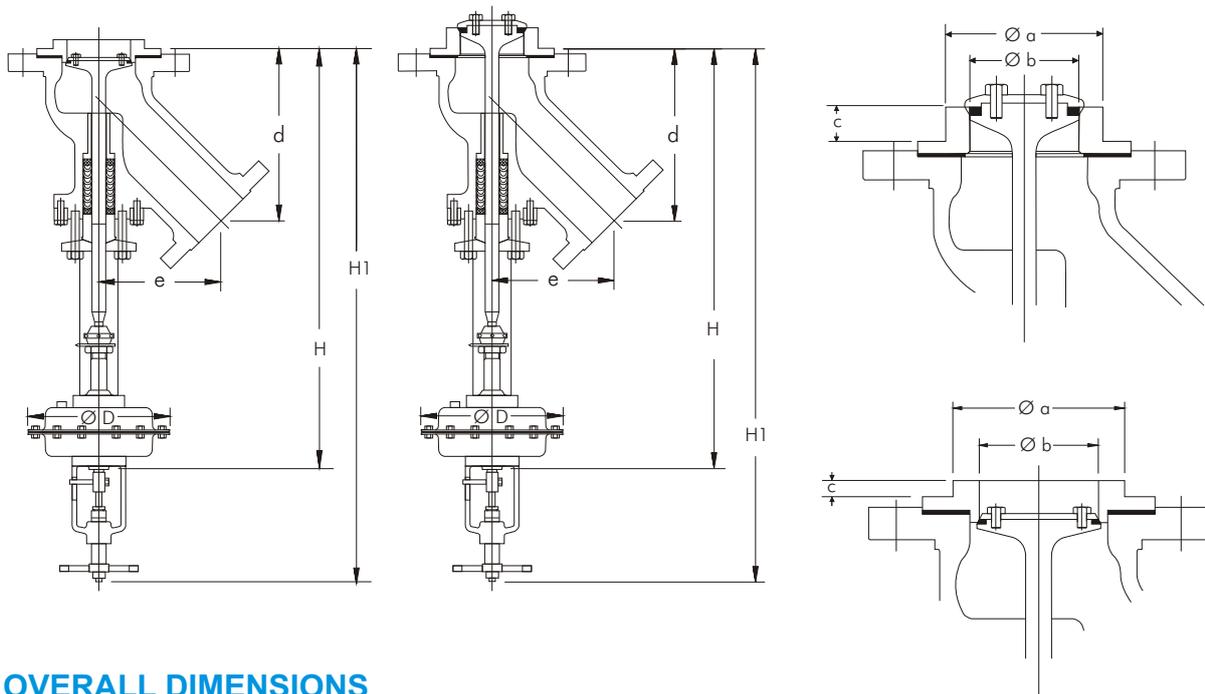


MATERIAL OF CONSTRUCTION

SR. NO.	PART	MATERIAL OF CONSTRUCTION	
		A216 Gr. WCB	A351 Gr. CF8M
1	Valve Body	A216 Gr. WCB	A351 Gr. CF8M
2	Guide Bush	SS 410 Heat Treated	SS 316 Hard Chrome Plated
3	Plug cum Valve Stem	SS 316	
4	Soft Facing	P.T.F.E.	
5	Gasket : Body to Seat Ring	P.T.F.E. / Graphite	
6	Packing Stud Nuts	SS 304	
7	Gland Flange	SS 316	
8	Gland Bush	SS 316	
9	Gland Packing	V - Teflon / Grafoil	
10	Seat Ring	SS 316	

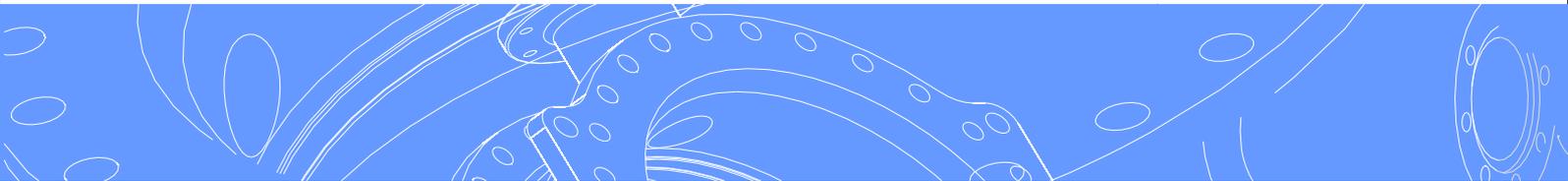
Cv VALUES

VALVE SIZES		Cv USGPM
INCH	MM	
1 ½ x 1	40 x 25	13
2 x 1 ½	50 x 40	30
2 ½ x 2	65 x 50	50
3x2 ½	80 x 65	80
4x3	100 x 80	110
6x4	150 x 100	200
8x6	200 x 150	400



OVERALL DIMENSIONS

VALVE SIZES		ACTUATOR MODEL	φa	φb	c	d	e	H WITHOUT HANDWHEEL	H1 WITH TMH	φD
INCH	MM									
1 ½ x 1	40 x 25	DM-00	39	25	40	117.5	84	451	672	240
	50 x 40	DM-00	49	40	40	154.5	117	486	707	240
2 ½ x 2	65 x 50	DM-01	49	40	40	154.5	117	500	722	290
		DM-00	64	50	40	179.5	124	511	732	240
3 x 2 ½	80 x 65	DM-01	64	50	40	179.5	124	525	747	290
		DM-11	79	65	40	197.5	140	543	765	290
4 x 3	100 x 80	DM-12	79	65	40	197.5	140	605	880	380
		DM-11	99	80	40	214.5	145	570	794	290
6 x 4	150 x 100	DM-12	99	80	40	214.5	145	622	909	380
		DM-11	149	100	45	207.5	159	563	787	290
8 x 6	200 x 150	DM-12	149	100	45	207.5	159	615	902	380
		DM-11	199	150	45	252.5	183	608	832	290
		DM-12	199	150	45	252.5	183	660	947	380



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Sales Office:

M/S. Dembla Valves Ltd.
C-30, Jai Matadi Compound, Kalher
Village, Thane-Bhiwandi-Agra Road -
421302,
Maharashtra, India.
Tel - +91-9292234790 - 97
E-mail - expo@dembla.com
[More info - www.dembla.com](http://www.dembla.com)

Works:

M/S. Dembla Valves Ltd.
A/8, Arahm Logistic, Valshind Village,
Mumbai -Nashik Highway
(NH3), Bhiwandi
Thane - 421302. Maharashtra (India)

