

V-BALL VALVE SERIES 8200FV



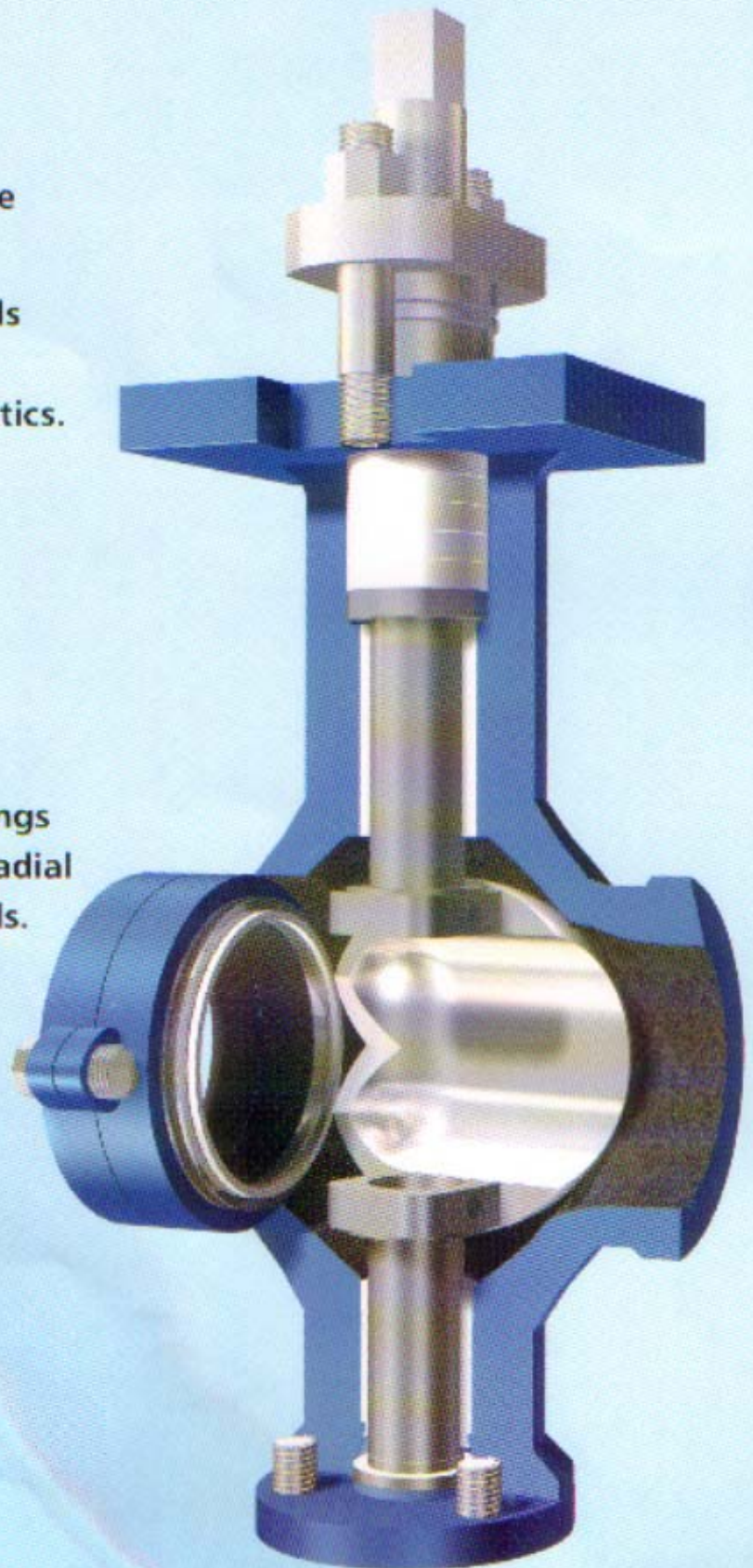
Aiming at Perfection

V-BALL VALVE

SERIES 8200FV

CHOICE FOR WIDE APPLICATIONS, ECONOMICAL AND RELIABLE PERFORMANCE

- Light weight compact body construction.
- Cavity free flow passage offers minimum flow resistance and high Cv values.
- Precisely shaped V-Notch Balls provide excellent Modified equal percentage characteristics.
- Seat removable without removing ball and shaft.
- Long lasting tight shut off with PTFE seat. Seat leakage better than class IV with Metal Seats.
- Low friction PTFE lined bearings provided to give maximum radial support for higher shaft loads.
- Compact single / double acting rotary actuators. Single Acting Diaphragm actuators (optional).



DESIGN AND CONSTRUCTION

Series 8200FV V-Ball Valves are quarter turn valves with a segment ball. Its V-notch ball design provides accurate and reliable control in a wide range of applications. It is ideal for throttling control of pulp and paper stock, slurries and fluids containing suspended solids or fibrous materials. In operation the V-Notch Ball creates a wedging and shearing effect, prevents the dragging of stock or slurry between the ball and ball seal. The straight through flow design provides high capacity for gases, liquids and fibrous materials.



INSTALLATION FLEXIBILITY

V-Ball valves are available in Wafer or Flanged End constructions to meet variety of installation requirements. Flanged bodies are drilled to ANSI 150/300/600 and equivalent BS/DIN/JIS standards. Valves are available in sizes 25mm through 300mm.

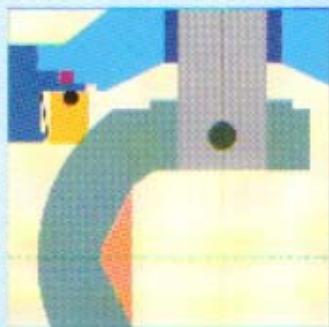
SEAT RING OPTIONS

V-Ball Valves incorporate three types of Seat arrangements.
1) PTFE Seats 2) FLEXIBLE METAL Seats 3) RIGID METAL Seats.
For all three constructions the seats are 'drop in' type & are replaceable without dismantling the ball, stem or actuator.



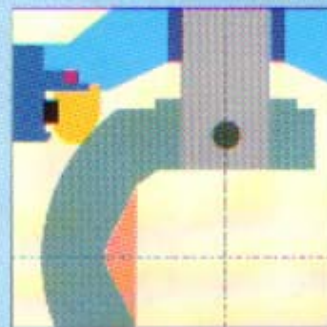
PTFE SEATS

The PTFE seat is inserted into a Metal base ring. The metal base ring is backed by SS316 Disc Spring, which offers flexibility to the seat. The metal base ring provides additional wiping & shearing capability.



FLEXIBLE METAL SEATS

This version is ideal for corrosive and erosive services. It achieves ANSI class IV seat leakage. Valve are operable with lower torque values as the seat is flexible with the effect of disc spring.



RIGID METAL SEATS

The heavy duty non flexible seat version provides one piece metal seats ideal for corrosive services and high temperature services. Seat metals are S.S.316, Hast 'C' and stainless steels with stellite facing or chromnitride coatings. Rigid seats provide class IV leakage. The flow direction is kept as flow to push the ball towards the seat for maximum abrasion resistance. This version should not be used for isolation services.

ACTUATOR OPTIONS

Single acting and double acting rotary high power actuator provide total economical valve package. Hand wheel and fail safe arrangements are available as options. Diaphragm actuators are also available as an option.

ACCESSORIES

Full range of accessories can be integrated to the valve actuating system to meet specific plant requirements.

Single Acting / Double Acting
Pneumatic / Electro Pneumatic Valve
Positioner, Position Feedback
Transmitter, Air Filter Regulator, I/P
Converter, Solenoid Valve, Limit
Switches, Air Lock Relay, Volume
Booster and Quick Exhaust Valve as
accessories can be offered.

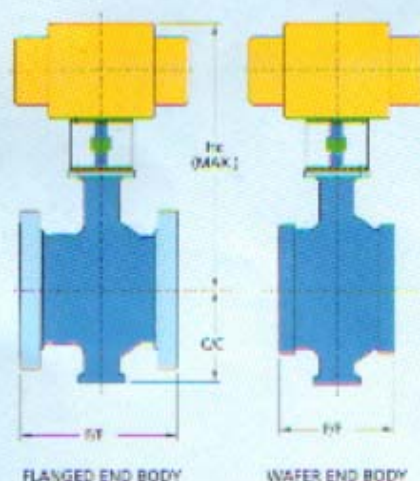
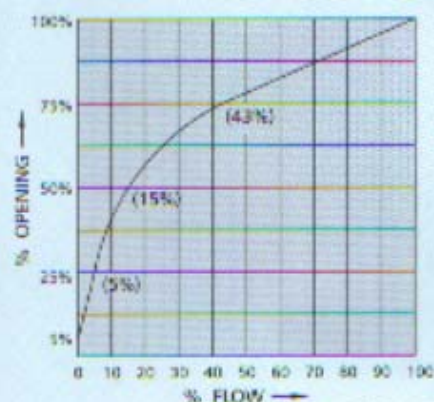


Cv VALUES

Nominal Body Size (mm)	Cv (max.) at 90° opening
25	25
40	75
50	125
65	225
80	320
100	430
150	1100
200	1820
250	3000
300	4000

Note : Cy Valve lower than 25 or in between the standard values can be offered on request.

FLOW CHARACTERISTICS CURVE



VALVE SIZE	F/F ("50#)		Hc											
	FLANGED	WAFER	ACTUATOR MODEL											
			25	40	60	100	150	200	280	500	750	1100	2500	4000
25	127	80	307	321	328	345	-	-	-	-	-	-	-	
40	165	100	358	372	379	396	-	-	-	-	-	-	-	
50	178	124	367	381	388	405	422	-	-	-	-	-	-	
65	190	152	-	389	396	413	430	438	454	-	-	-	-	
80	203	165	-	419	426	443	460	468	484	524	-	-	-	
100	229	194	-	-	440	457	474	482	498	538	-	-	-	
150	267	229	-	-	-	520	528	544	564	629	642	-	-	
200	406	243	-	-	-	-	593	609	649	694	707	820	-	
250	456	297	-	-	-	-	-	-	664	709	722	835	855	
300	508	336	-	-	-	-	-	-	730	774	787	900	920	

Dembla

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