

V-Notch Ball Valve

INTRODUCTION

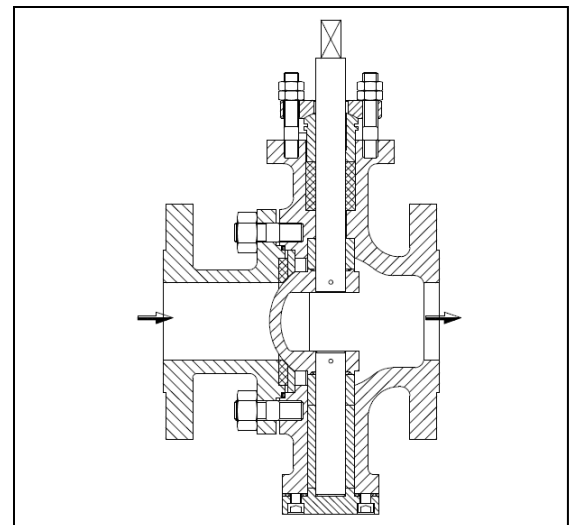
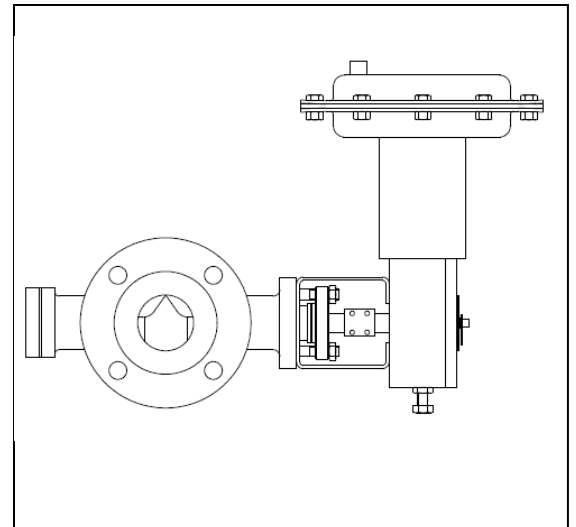
The V-Notch Ball Valve gives non-clogging, high capacity, straight through flow control of fluids containing pulp and paper stock or slurries and fluids containing suspended solids or fibrous materials.

The V- Notch Ball Valves are offered squared and clamped driven shaft plus ball shaft with splined connection designed for zero lost motion for highly accurate positioning and precise control.



SPECIFICATIONS

DESIGN	: BS. 5351
SIZE	: 25 to 200 mm (1" to 8")
RATING	: ANSI 150
END CONNECTION	: Flanged End
F/F DIMENSIONS	: ANSI B-16.10
FLOW CHARACTERISTICS	: Approx. Equal Percentage, Linear, On-Off.
FLOW DIRECTION	: Forward(into convex face of V-ball)
MAX. BALL ROTATION	: 90°
BODY MATERIAL	: Carbon Steel, Stainless Steel, and Alloy Steel etc.
BALL MATERIAL	: CF8M Chrome plated/Alloy steels.
SEAT RING	: PTFE, Carbon Filled Teflon.
BALL RING	: CF8M, Alloy steels.
GASKET	: PTFE, Graphite Laminate.
GLAND PACKING	: PTFE V Rings, Grafoil.
ACTUATOR FORM	:Diaphragm, Rotary, Cylinder, Electric
ACTUATOR TYPE	: Scotch
DIAPHRAGM	: Nitrile / Neoprene.
SPRING RANGE	: 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" or 1/ 2" NPT
ACCESSORIES OPTIONAL	: Valve Positioner – Pneumatic, Electro Pneumatic, Airset, Solenoid Valve, Air Lock, Volume Booster, I/P Converter, Position Transmitter, Limit – Proximity Switches etc. Top or Side Mounted Handwheel



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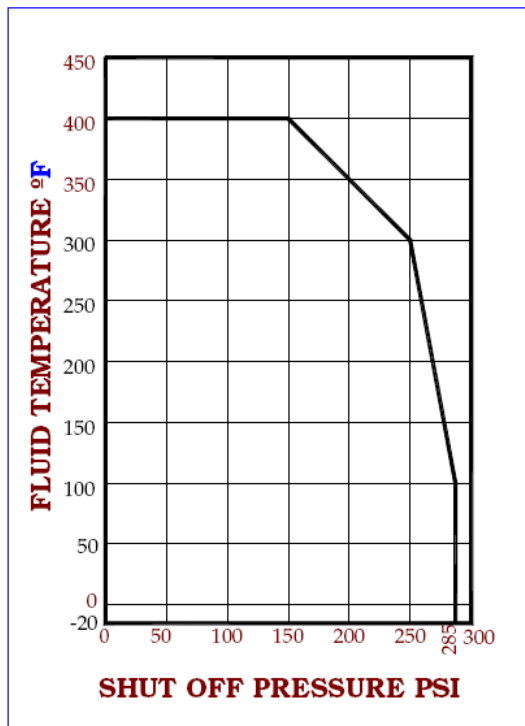
DESIGN FEATURES

A Shearing effect between the ball and seal ensures tight shut-off, even on fibrous slurries. The unrestricted, straight – through flow design provides high capacity and wide rangeability. Precise contouring of the V-notch balls provides a nearly equal percentage characteristic. Replaceable ball seal and back up ring for added rigidity. Ball machined to a super smooth finish, hard – chrome plated and polished to increase ball seal life. High Cv to body size ratio.

VALVE SIZING CO-EFFICIENT Cv RATING

VALVE SIZE	Inches	1	1.1/2	2	2.1/2	3	4	6	8
	mm	25	40	50	65	80	100	150	200
Cv (MAX.) AT 90° OPENING		26	78	120	220	325	595	1050	1750

PRESSURE / TEMPERATURE FOR PTFE BALL SEALS



FLOW CHARACTERISTIC CURVES 90° OF OPENING

