



## Technology from Germany

Over 150 Installations in India in the last 15 Years



### MOTORISED BASIS WEIGHT CONTROL VALVE

PACKAGE FOR PULP & PAPER INDUSTRY

**V- Notch Ball Valve.**  
**High Resolution Electrical Actuator**  
**Interfacing Electronic Accessories.**  
**Electronic Control Panel.**

#### V- NOTCH BALL VALVE

- V-notch contour offers an equal percentage characteristics for control.
- Valve sizes from 25 to 300 mm.
- Ideally suitable for throttling of fibrous pulp.

#### HIGH RESOLUTION ELECTRICAL ACTUATOR

- Actuator movement 280 sec. /90° or 306 sec. /90°
- Standard pulse width 0.01 sec.
- 27400 or 30600 steps /90° - valve movement.
- Can be directly hooked to DCS or QCS systems.

#### INTERFACING ELECTRONIC ACCESSORIES.

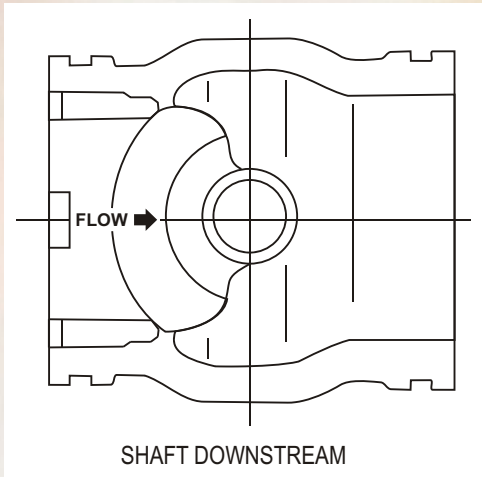
- Valve positioner to accept 4-20 mA or 0-10VDC signal from controller.
- Feedback potentiometer to give ohms output.
- Electronic position transmitter to give an output signal of 4-20mA.

#### ELECTRONIC CONTROL PANEL.

- Digital Valve Position indicator.
- Open / Close push buttons for manual operation.
- Auto / Manual Selector switch.

## Typical Valve Specifications / Features

Valve Type	V-notch / Segment Ball Valve
Size	DN - 25 40 50 75 100 150 200 250 & 300
End Connections	Flange less / Flanged - Optional
Leakage Class	Metal to Metal Seated - ANSI Class IV Soft Seated - Teflon - ANSI Class VI
Body rating	ANSI 150 and ANSI 300
Characteristics	Equal Percentage - Approx.
Body	316 SS / Carbon Steel / Titanium
Ball / Segment	317 SS / Hard chrome plated Steel
Seat	316 SS / Teflon
Packing	Teflon - V - rings / PTFE



## Electric Actuator Specifications

Description	Specification	
Models	ST - 5102 - S	ST 5103 - S
To suit Valves - Size DN	25 40 50 75 & 100	150 200 250 & 300
Operation time Sec/90° 280		306
Torque developed - Nm	150	375
Degree of Protection	IP - 55	
Switching frequency- Operations / hour	7000	
Standard pulse width	0.01 sec.	
Resolution steps /90°	27400	30600
Input Signal	230 /110 V AC Pulses from DCS / QCS OR 4-20 mA / 0-10 VDC Control Signal from Controller	
Motor Type	Non blocking - Stall Duty A. C. Motor	
Supply Voltage	220/110 VAC 50 / 60 Hz 1 Phase	
Motor rating - watts	4.7	23.6
Class of Insulation	F	F

## ACCESSORIES

### ■ STANDARD ■

Travel limit switches : 2 Nos. (1 NO + 1NC)  
Hand wheel for manual operation.  
Local position indicator

### ■ OPTIONAL ■

Additional limit switches 2 Nos. ( 1 NO + 1NC)  
Feedback potentiometer  
Two / Four wire transmitter  
Remote position indicator - digital  
Control panel  
Positioner to accept 4-20 mA / 0-10VDC

VALVE TYPE :  
Shear Stream

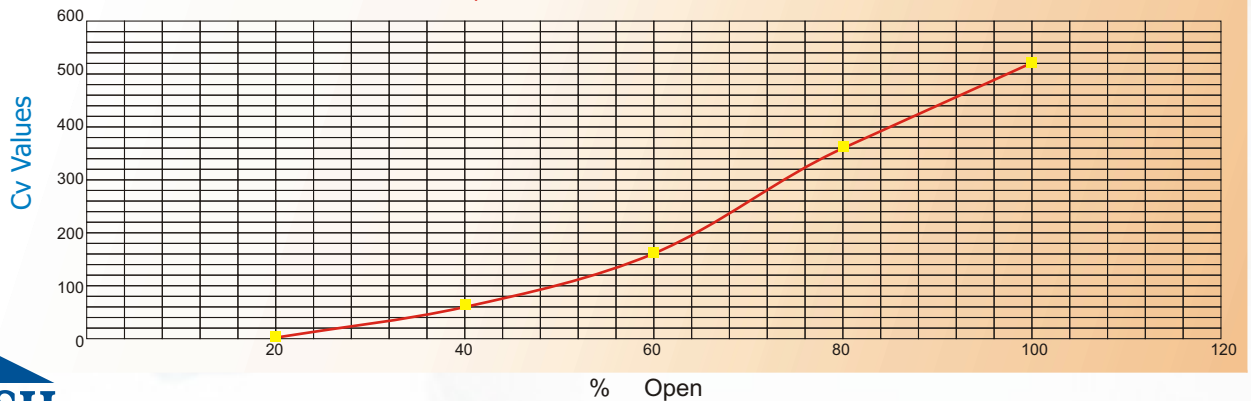
BODY RATING :  
Class 150-600

TRIM CHARACTERISTIC :  
Shaft down stream

## FLOW COEFFICIENT - Cv

Valve Size DN	Cv at degrees open								
	10	20	30	40	50	60	70	80	90
25	0.1	0.72	1.8	3.5	5.7	8.6	12.4	17.6	25
40	0.21	1.4	3.7	7.4	12.3	18.9	28	40	57
50	0.5	3.2	7.2	13.2	21	32	47	70	110
75	7	19	34	56	85	124	185	239	280
100	13	33	59	94	140	195	271	361	462
150	19	54	110	176	260	371	519	716	945
200	45	104	185	291	425	589	825	1172	1675
250	92	220	354	572	835	1150	1620	2250	3180
300	120	287	461	746	1090	1500	2120	2940	4150

## V NOTCH BALL - 100 mm 150 # , SHAFT DOWNSTREAM



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