

BASIS WEIGHT CONTROL VALVE - PLC BASED

(Valve as per requirement)

Basis Weight Control Valve is a V-Notch Segment Valve (V-Notch Ball Valve) having Precise Control. Basis Weight Valve is used in fan pump to regulate the grammage. We provide PLC Control Panel to regulate the loop.

Basis Weight Valve is a kind of advanced control valve adopting right angle rotary stem motion. It can operate both in control and on-off applications. The valve core of segment valve is designed as a V type notch with special shape; therefore, it has good cutting force and self-cleaning function.

It is especially applicable for the control of fiber or media with small solid particles. Therefore, the product is widely used in the automatic control systems in papermaking, chemical industry, petroleum, chemical fiber, electric power, metallurgy, pharmacy and environmental protection etc. industrial departments.

ELECTRONIC PANEL

PLC Panel
with
Siemens Components

INTEGRATED VALVE BODY

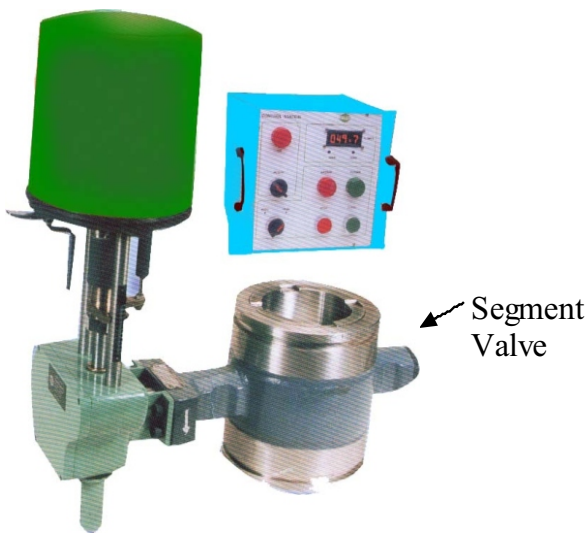
Segment Valve adopts integrated design, which can avoid the leakage due to the flange connection adopted by valve body.

SMALL FLOW CONTROL

According to customer requirements on flow, different small cv values can be provided to the ball valve. The micro flow can be accurately controlled. It is especially applicable for the control of micro flow.

VALVE CORE AND SELF-LUBRICATING BEARING

The valve core of V type ball valve is fastened by adopting double bearings on upper and lower valve stems with good stability. The bearing material is composite material. The bearing surface for rotation adopts agglomeration treatment, with super strong anti-abrasive performance and self-lubricating function, which can prevent the occurrence of seizure of valve during long time use.



Technical Specifications

1. Salient Features :

- ❖ All internals are made in Stainless Steel to avoid corrosion.
- ❖ V-Notch Segment Ball Valve is suitable for fort throttling of fibrous pulp.
- ❖ V-Notch design shears the pulp fibres to ensure no dragging stock between Ball & Ball seat flanged body design and easy installation.
- ❖ V-Notch is for precise control.

2. Valve specifications :

Type	:	V-Notch Ball Control Valve
Valve Body	:	Pneucon / Mescot / Pap-Tech V-Notch Ball Valve
Sizes	:	As per requirement
End Connection	:	Flange less confirming to Class 150
Leakage Class	:	Class VI Tight Shut off
Flowing Media	:	Pulp@1-4% Cy.
Body Rating	:	As per ANSI 150# or ANSI 300#
Characteristics	:	Approx. equal %
Body	:	CI with SS Internals
Ball	:	SS 316
Ball Seats	:	PTFE
Ball Seal Backup Ring:	:	SS 316
Shaft	:	SS 316 Chrome Plated
Thrust Bearings	:	SS 316
Packings	:	V-rings PTFE
Effective opening	:	25% - 75%
Standard opening	:	100%
Working Pressure	:	4 Kg/cm ²
Temperature	:	Ambient

3. Valve Actuator :

a) Model	:	VAO – 1500
b) Voltage	:	AC-230Volts, 50Hz, Single Phase
c) Torque	:	1500 Kg.Cms
d) Speed	:	90 degrees, 180sec
e) Feed back	:	Potentiometer, 1 Khm, 1 watt, Single turn
f) Gear Motor	:	GSM 52 / 230 rpm / 2.0 ufd / 450 VAC 1 No. Auxiliary Switch (Switch – 3).

4. Electronic Controller :

Power Supply	:	24VDC, 50Hz
Connector	:	With Screw Terminals
Feed back output	:	4-20 mA
Control	:	PLC Based (Automatic Selector Push Button)
Display	:	Inbuilt digital display

5. Advantages :

- ❖ Improves Productivity in terms of quality & quantity.
- ❖ Payback period of investment is very fast.
- ❖ Saving of approx. 20 min per day production due to power failure/GSM change/variation change.
- ❖ Finish losses and other losses reduce drastically.
- ❖ Operated by ordinary operators.

Components List of Valve Body – Pneucon/Mescot/Pap-Tech V-Notch Ball Valve

NO.	NAME	QTY. (Pcs)	MATERIAL
1.	Body	1	WCB
2.	Segment	1	CF8, CF8M, CF3M + Hard Chromium Plating
3.	Stem	1	316 SS
4.	Round Pin	2	316 SS
5.	Stem	1	316 SS
6.	Flat Key	1	316 SS
7.	Flat Key	1	316 SS
8.	Blind Flange	1	316 SS
9.	O Ring	1	Viton
10.	Gasket	1	PTFE
11.	Self-Lubricating Bearing	1	Composite Material
12.	Self-Lubricating Bearing	1	Composite Material
13.	Packing	1 Group	PTFE
14.	Gland Follower	1	304 SS
15.	O Ring	1	Viton
16.	Sealing Seat	1	316 SS
17.	Lock Spring	1	316 SS
18.	Clamp Ring	1	304 SS
19.	Socket Head Cap Bolt		304 SS
20.	Hexagon Bolt	4	304 SS
21.	Double Head Screw	2	304 SS
22.	Hexagon Nut	2	304 SS

[Partial List of Users]

(A House of Quality Products)

Item Name – MOTORISED BASIS WEIGHT VALVE CONTROLLER

S.No.	Party Name	Description of Material	Qty.
1.	Well Pack Papers Ltd., Ahmedabad (Guj.)	Motorised Basis Weight Valve	1
2.	Malu Papers Ltd., Nagpur (M.S.)	Motorised Basis Weight Valve	1
3.	Sainsons Papers Ltd., Pehowa (Hry.)	Motorised Basis Weight Valve	1
4.	G.V.G. Papers Ltd., Udmalpet (T.N.)	Motorised Basis Weight Valve	1
5.	Flexole Raman Ltd., Thandavpura (Kar.)	Motorised Basis Weight Valve	1
6.	Heritage Paper Mills Ltd,(T.Nadu)	Motorised Basis Weight Valve	1
7.	Rainbow Papers Ltd, Ahmedabad	Motorised Basis Weight Valve	1
8.	Raman Boards Ltd, Mysore	Motorised Basis Weight Valve	1
9.	Wemasa Fibres Ltd, Sitarganj	Motorised Basis Weight Valve	1
10.	Kamakshi Papers Ltd, Gajraula	Motorised Basis Weight Valve	1
11.	I B N Engg: Co, Egypt	Motorised Basis Weight Valve	1
12.	Premier Arco India Ltd, Mysore	Motorised Basis Weight Valve	1
13.	Liberty Paper Mills Ltd, Philippiens	Motorised Basis Weight Valve	1
14.	Speciality Pulp & Papers Ltd, Philippines	Motorised Basis Weight Valve	1
15.	Machachai Kraft Paper Co. Ltd, Samutsakhon, Thailand	Motorised Basis Weight Valve	1
16.	Manne Papers Ltd, Hyderabad	Motorised Basis Weight Valve	1
17.	Asia Techno Paper , Iran	Motorised Basis Weight Valve	1
18.	Umang Boards Ltd, Jaipur	Motorised Basis Weight Valve	1