BUTTERFLY VALVE DOUBLE OFFSET WITH SCOTCH ACTUATOR- SERIES-232

INTRODUCTION

Pneucon Double Offset Butterfly Valve design is the most common type of rotary valve and provides low weight to Cv Ratio, Combined with simplicity of design and comparatively low cost. It is simple device to control or block the flow. A single vane or wafer disc pivots in the Valve Body and find wide application for throttling or two position control in the chemical, paper & pulp, sugar Industries, cooling water circulation, water treatment Plants, compressed air, gas plant, flue gas desulphurization plants etc.

SPECIFICATIONS

DESIGN: Wafer

VALVE SIZE : 50mm to 900 mm (2" to 36")

RATING: PN6, PN10, PN16, Suitable to

Mount between Flanges 150#,300#

END CONNECTION: Wafer type.

Flow Characteristic.: Throttling, On-Off.

Body Material : CI, WCB, SS304, 316, 316L etc.

DISC Material : Solid Dual Shaft / Single Shaft.

SGI, SS304, 316, 316L etc.

Soft Seat : PTFE.

Gland Packing: PTFE V Rings upto 180° C

SPRING RANGE : 12-24 Psig (0.8-1.6 Kg/Cm²)

12-36 Psig (0.8-2.4 Kg/Cm²)

AIR SUPPLY : 35 Psig (2.5 Kg/Cm²)

50 Psig (3.5 Kg/Cm²)

ACTUATOR TYPE: Diaphragm(Scotch).

DIAPHRAGM: Nitrile.

AIR CONNECTION : 1/4" or 1/2" NPT

ACCESSORIES: Valve Positioner-Pneumatic,

Electro Pneumatic, Smart etc. Airset, Solenoid Valve, Air Lock, Volume Booster, Position Transmitter,

Proximity Switches etc.

Top or Side Mounted handwheel,

Limit Stops



BUTTERFLY VALVE WITH DIAPHRAGM ACTUATOR



BUTTERFLY VALVE WITH DIAPHRAGM ACTUATOR WITH TMH



BUTTERFLY VALVE WITH DIAPHRAGM ACTUATOR WITH MOR

DESIGN FEATURES

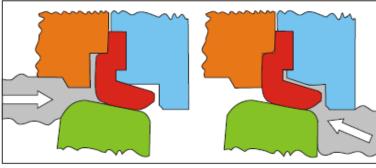
- Compact & simple design, low cost and maintenance free.
- Very high Cv to body size ratio.
- Reliable smooth operation and flow control with assured product quality.
- Long Life Bellows Seal- provides for absolute gland sealing.
- Easy In Line Maintenance- The top entry design eases in-line maintenanceand minimizes transfer of pipeline stresses.
- Long life, easy field replaceable seat placed in body, away from flow steam, provides bubble tight shut off. Valve are equally suitable for control and tight shut off. Valves are equally suitable for control and tight shut off applications.
- Recommended for critical applications including high temperature services, throttling steam control, liquor services, gas applications, vacuum applications, corrosive fluids, refinery services, chemical services, hydrocarbon services, etc.
- > Seat option includes PTFE, EPDM, Viton Soft Seats and Flexible Metal Seat to suit variety of fluids and applications.
- Valve body is soild, heavy duty. Seat Retainer construction allows gasket conforming to api 609.
- > Optimal disc geometry and cavity free flow passage offers minimun flow resistance and high Cv values.
- Heavy duty pins connecting valve shaft to disc avoids lost motion under high torrue conditions.

QUALITY AND PERFORMANCE GUARANTEE

- Produced with Quality Systems accredited to ISO 9001: 2008 by Bureau Veritas.
- Full material certification available for all major component Parts.
- Full guarantee on design and Performance.
- All testing are performed to the requirements of ANSI B16.34.

SEAT DESIGN OPTIONS

- Pneucon Butterfly valve offers a wide variety of seat design options which are cost-effective and provide solutions to your service requirements. The double offset disc construction minimizes the interference between seat & disc edges allowing longer seat life even under frequent valve operations. Seats are available in both rigid & flexible construction to suit specific requirements. The seats are held rigidly by the seat retainer which is inserted within the body per API 609 Design requirements. This construction allows use of gasket conforming to API 601 (ANSI 16.5) Standard and eliminated the pssibillity of joint leakage from body to the atmosphere.
- ➤ Virgin PTFE seat having a flexi lip provided bibble tight ahut off in both the directions. Suits to wide range og applications. Maximum working temperature 200°c.

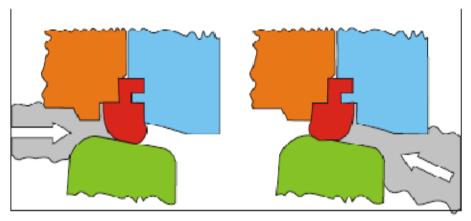


Flexible Ptfe Seat

Built in reliability

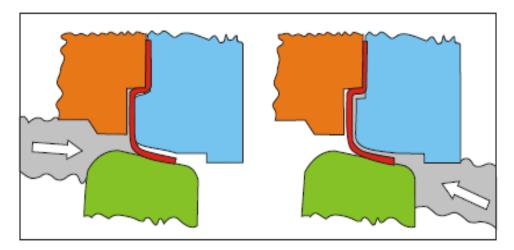


Rubber seats are available in EPDM, NBR and VITON materials. Rigid seats allow a clean flow passage & prevents fluid deposition within the seat. These seats are ideal for many applications in sugar industry Rigid seats allows unidirectional flow providing tight shut off under positive & vacuum applications. With this configuration the shaft side is upstream side.



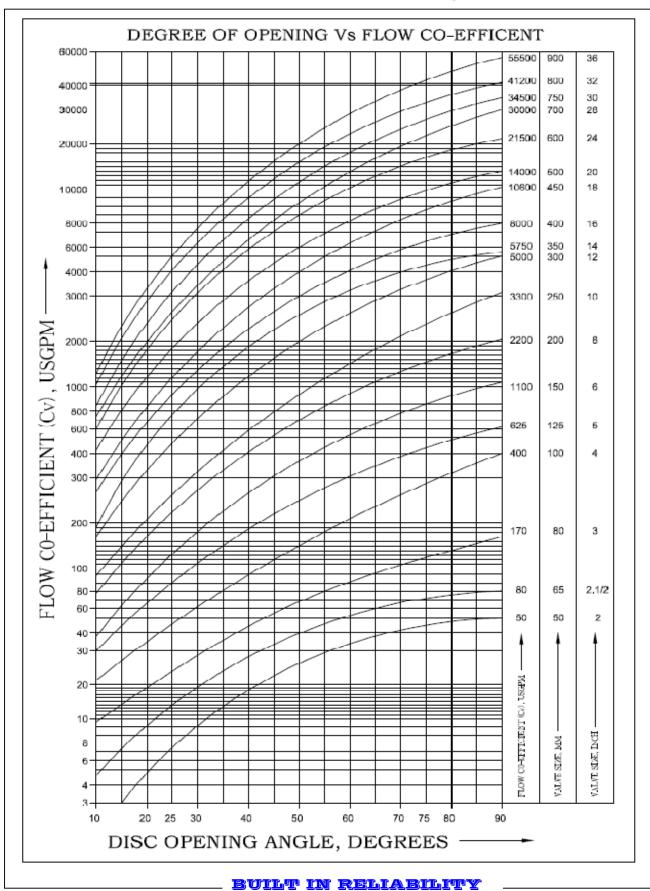
Flexible Rubber (EPDM / NBR / Viton) Seat

Most suitable for high consistency fluids having suspended hard particles, for erosive services, for high temperature services >200° to 550°C. Die pressed stainless steel seats with inbuilt flexible property gives class IV LEakage with minimum torque requirements.

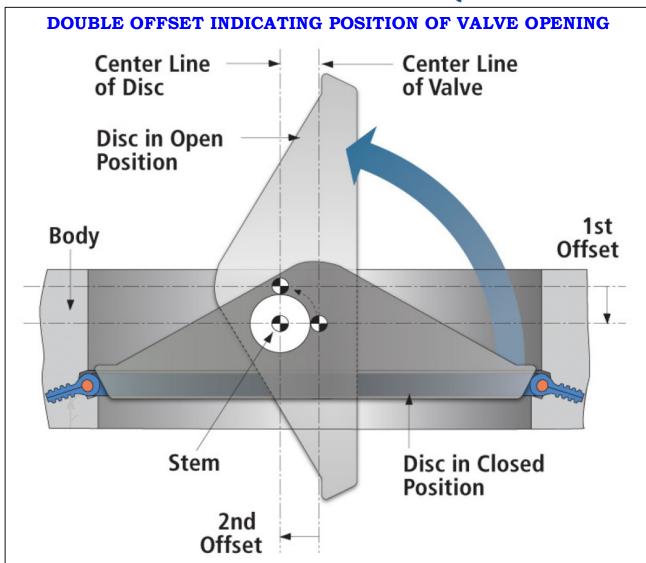


Flexible Metal









TESTING AND INSPECTION

Test	Test Pressure	Test Stds	Test Medium	Acceptance Criteria	
Hydro Test	30 bar (ANSI 150#)	API 598	Water	No Leakage	
Seat Leakage	Max ΔP Shut Off	FCI 70-2	Water	Class VI	
Test	20 Bar (ANSI 150#)	API 598	Water	No Leakage	

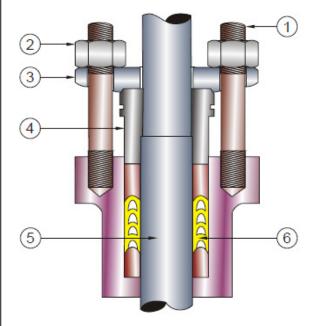
BUILT IN RELIABILITY



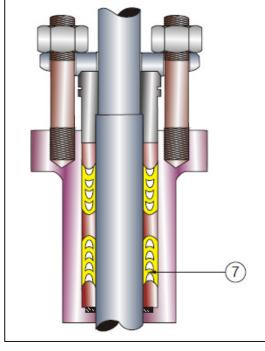
GLAND PACKING OPTIONS

Pneucon offers Single & Double set of V-PTFE rings (upto 200°C) & Graphite Moulded rings (>200°C upto 600°C) as standard. Inverted V-fered for vacuum application with upper set of V-Rings positioned PTFE packings are reverse direction. Low fugitive Emission packings are provided on the LFE packing arrangement request comprises of live loaded packings. The packing gland is loaded with spring washers to maintain a continuous compressive lead to gland packings as shown in figure below.

> SINGLE V-PTFE GLAND PACKING

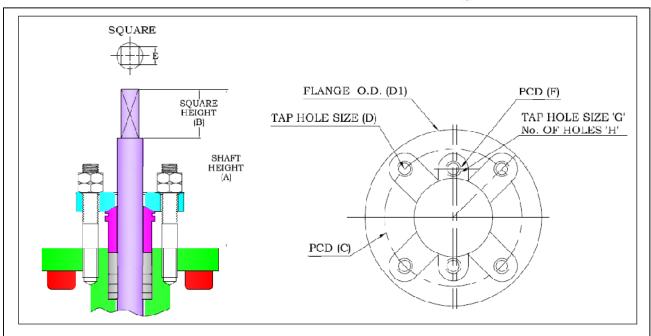


> INVERTED V-PTFE GLAND PACKING FOR VACUUM APPLICATION



Sr. No	Part Name					
01	GLAND STUD					
02	NUT					
03	GLAND PUSHER					
04	GLAND					
05	STEM					
06	V-RING PTFE GLAND PACKING					
07	V-RING PTFE GLAND PACKING					

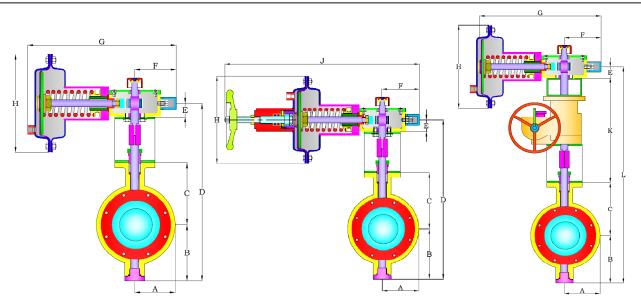




ACTUATOR MOUNTING DETAIL * TAP HOLE NO.TAP SIZE HOLES TAP HOLE VALVE SHAFT SQUARE PCD PCD FLANGE O.D. SIZE HĚIGHT HEIGHT SIZE Α $^{\rm C}$ D \mathbf{F} G Η \mathbf{E} В D1M82.1/2" 3" M84" M10 50.8 5" 8" M1210" 114.3 M10 12" 114.3 14" 114.316" M16 18" M1220" 24"

* :- For Higher Sizes Dimensions Shall be Furnished on request





	* DIMENSION OF DOUBLE OFFSET BUTTERFLY VALVE (SERIES-232)													
VALVE SIZE	ACTUATOR MODEL	MOR	A	F / F	В	С	D	E	F	G	Н	J	K	L
2"	PDS-030	100	46	43	78	110	345	30	95	333	220	488	290	508
2.1/2"	PDS-030	100	52	46	87	120	365	30	95	333	220	488	290	527
3"	PDS-030	100	63	48	112	135	405	30	95	333	220	488	290	567
4"	PDS-030	100	80	54	122	151	430	30	95	333	220	488	290	593
5"	PDS-055	450	93	56	141	154	450	30	95	439	288	647	310	635
6"	PDS-055	450	107	57	154	171	482	32	108	439	288	647	310	667
8"	PDS-095	450	135	64	210	215	607	32	108	471	371	678	335	792
10"	PDR-095	450	162	71	243	253	677	32	108	471	371	678	335	863
12"	PDS-140	450	190	81	283	310	790	45	175	672	443	958	335	973
14"	PDS-140	750	206	92	317	315	830	45	175	672	443	958	335	1012
16"	PMS-140	1000	235	102	348	350	945	45	175	767	443	1053	385	1128
18"	PDS-300	1000	236	114	372	370	990	45	175	936	616	N/A	385	1172
20'	PDS-300	1000	292	127	410	408	1065	45	175	936	616	N/A	385	1248
24"	PDS-300	1000	346	154	454	500	1200	45	175	936	616	N/A	385	1384

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The Company's policy is one of continuous product improvement and the right is reserved to modify the specifications contained here in without notice.



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