2/2-WAY PRESSURE ACTUATED ANGLE SEAT VALVES

SERIES: PVS200

- > EXCELLENT FLOW RATE
- > EXCELLENT EXTERNAL SEALING
- > EXTERNALLY PRESSURE ACTUATED
- > TIGHT SHUTOFF & LONG SERVICE LIFE
- > DAMPED CLOSING (ANTI WATER HAMMER)
- ▶ UP TO 370 PSI (25 BAR) OPERATING PRESSURE
- > VISUAL POSITION INDICATOR & SWITCHES (OPTION)
- > DESIGNED TO INTERNATIONAL SAFETY REGULATIONS
- > SUITABLE FOR CONTAMINATED OR EXTREMELY VISCOUS FLUIDS



DESCRIPTION

Indumart Series PVS200 Pressure Actuated Angle Seat Valves are ideal for on/off flow control of most fluids compatible with bronze or stainless steel. Tight shutoff is provided by PTFE seat seal. Normal flow direction is under the seat, which eliminates the danger of water hammering to the piping system.

Series PVS200 angle seat valves are more cost effective than equivalent actuated ball valves, while providing a significantly longer cycle life.

Electrical position indicator with two microswitches, optical position indicator, standard or NAMUR pilot valve and stroke limiter are some of the options which may be ordered with these heavy-duty angle seat valves.

Typical applications of the PVS200 Series include air drying equipments, industrial compressors, pollution control equipments, sterilizers, autoclaves, bottling machines, CIP equipments, refrigeration, styrofoam machines, textile dyeing and drying, and in most oil and natural gas processes to safe-guard explosion hazard.

SPECIFICATIONS

Body St. steel;

Gun metal* (CuSn & ZnPb) Valve Type Pressure actuated seat valve

Seat Seal **PTFE** Seal Packing PTFE/FPM Internal Parts

Actuator Body Actuator Bottom **Actuator Seal** Actuator internals

St. Steel

or Brass

Process fluid

Fluid Temperature Viscosity Pilot fluid **Pilot Pressure**

Ambient Temperature -10 to +60°C Switching Function **Process Connection Pilot Connection**

St. st & brass for gun metal; St. st. for the st. steel body

St. steel

Aluminum, WEKA-Kor coated

NBR Coated steel

Liquid and gases compatible with the body material

-10 to 180°C; 200°C (option)

Up to 600 mm²/s Air up to +80°C

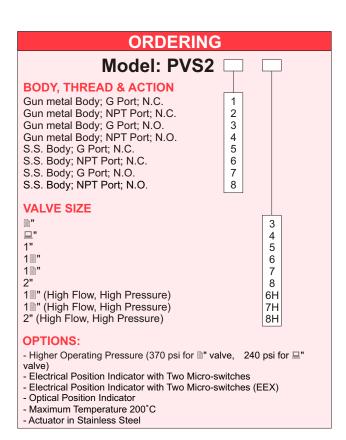
N.C: 50 to 120 psi (3.5 to 8 bar) N.O: 15 to 90 psi (1 to 6 bar)

N.C. (standard); N.O. (option) ₽", □", 1", 1□", 1□" & 2"

FLOW CHARACTERISTIC DATA

Con	nection	Operating min (psi)	Pressure max (psi)	(_v (m³/h)	C _v (gpm)
	B"	0	240 (370)	4.8	5.6
	□"	0	150 (240)	10.0	11.6
	1"	0	150	14.0	16.2
	13"	0	100	23.0	26.6
	1≣"	0	60	30.0	34.7
	2"	0	45	37.0	42.8
High Flow High Pressure	13"	0	240	27.0	31.2
	11"	0	150	37.0	42.8
Ξ.jg/	2"	0	150	53.0	61.3

^{*}Gunmetal is similar to brass, but more resistant to mildly aggressive water, steam and seawater.



ELECTRICAL POSITION INDICATOR

- > Open and/or closed positions can be indicated by electrical position indicator.
- > The micro-switches are already wired up with the terminal block.
- > Both switches are fitted to a continuously adjustable holder and are independently adjustable via threaded spindles.
- > Switches, switching rod and the terminal block are mounted on a 360° rotatable plastic socket, covered by a transparent cap.
- ➤ Two versions are available. They can be fitted without modifications to valves by means of a threaded plug underneath the indicator body. The switching rod is thereby connected to the valve spindle via a universal coupling, without play in the axial direction.

Max. Operating Current for Version 1

Voltage (V)	Resistor Power (A)	Inductive Power (A)		
250DC	10	10		
380 DC	6	6		
15 AC	15	15		
30 AC	8	7.5		
50 AC	3	2.5		
75 AC	1	0.5		
125 AC	0.5	0.07		
250 AC	0.25	0.03		

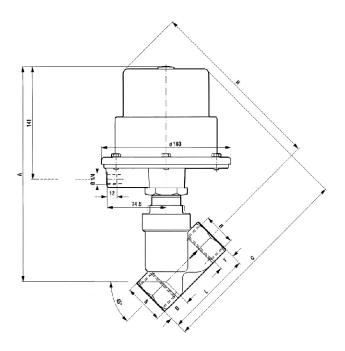








Version 1



DIMENSIONS (mm)

R	Α	В	С	D	E	Н	L	Т
■" NPT	204.5	SW27	183.0	18.5	SW30	164.0	65	13.0
G 🖺	204.5	SW27	183.0	18.5	SW30	164.0	65	15.0
⊒" NPT	213.5	SW32	189.0	21.0	SW36	168.0	75	14.0
G ⊒	213.5	SW32	189.0	21.0	SW36	168.0	75	16.5
1" NPT	221.5	SW41	199.0	25.0	SW36	174.0	90	16.5
G 1	221.5	SW41	199.0	25.0	SW36	174.0	90	19.0
1II" NPT	236.5	SW50	221.5	28.5	SW41	184.5	110	17.0
G 1	236.5	SW50	221.5	28.5	SW41	184.5	110	21.5
1ª" NPT	238.5	SW55	217.0	31.0	SW41	186.0	120	17.0
G 11	238.5	SW55	217.0	31.0	SW41	186.0	120	21.5
2" NPT	250.5	SW70	234.5	40.0	SW41	194.5	150	17.5
G 2	250.5	SW70	234.5	40.0	SW41	194.5	150	26.0
18" NPT	236.5	SW50	221.5	28.5	SW41	184.5	110	17.0
G 1 4	236.5	SW50	221.5	28.5	SW41	184.5	110	21.5
1≞" NPT	238.5	SW55	217.0	31.0	SW41	186.0	120	17.0
G 1🗎	238.5	SW55	217.0	31.0	SW41	186.0	120	21.5
2" NPT	250.5	SW70	234.5	40.0	SW41	194.5	S150	17.5
G 2	250.5	SW70	234.5	40.0	SW41	194.5	150	26.0

The PVS200 Series pneumatic seat valves were developed and designed using the following harmonised standards:

EN 292 Machine Safety

EN983 Pneumatic Systems

EN60204-1 **Electrical Equipment for Machinery**