2/2-WAY PRESSURE ACTUATED ANGLE SEAT VALVES

SERIES: PVS100

- > EXCELLENT FLOW RATE
- > EXCELLENT EXTERNAL SEALING
- > EXTERNALLY PRESSURE ACTUATED
- > TIGHT SHUTOFF & LONG SERVICE LIFE
- > DAMPED CLOSING (ANTI WATER HAMMER)
- > VISUAL POSITION INDICATOR & SWITCHES
- > UP TO 370 PSI (25 BAR) OPERATING PRESSURE
- > DESIGNED TO INTERNATIONAL SAFETY REGULATIONS
- > SUITABLE FOR CONTAMINATED OR EXTREMELY VISCOUS FLUIDS
- > CONVERSION TO NORMALLY OPEN & DOUBLE ACTING WITHOUT TOOLS



Indumart Series PVS100 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 PVS100 angle seat valves are more cost effective than equivalent actuated ball valves, while providing a significantly longer cycle life. The maintenance-free actuator with long lasting piston ring and the housing made of sturdy polyamide 66, which may rotate up to 360° can be supplied as either single or double acting piston.

Standard features include optical position indicator, and spring-loaded double PTFE/FPM seals that separate the process fluid from the pilot fluid. Electrical position indicator with two microswitches, standard or NAMUR pilot valve and stroke limiter are some of the options which may be ordered with these heavy-duty valves.

Typical applications of the PVS100 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-quard 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
St. st. & brass for gun metal;
St. st. for the st. steel body

Actuator Material Polyamide 66

Actuator Seal NBR

Actuator Internals Stainless steel, brass

Process Fluid Liquid and gases compatible

with the material

Fluid Temperature -10 to +180°C
Viscosity Up to 600 mm²/s
Pilot Fluid Air up to +60°C

Pilot Pressure 50 to 150 psi (3.5 to 10 bar)

Ambient Temperature -10 to +60°C

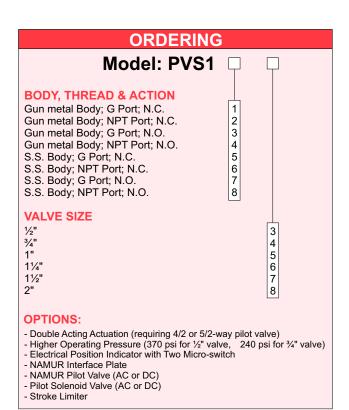
Switching Function N.C. (standard); N.O. (option) Process Connection ½", ¾", 1", 1¼", 1½" & 2"

Pilot Connection 1/4"

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

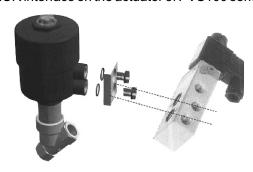
FLOW CHARACTERISTIC DATA

Connection	Operating min (psi)	Pressure max (psi)	K _v (m³/h)	C _v (gpm)
1/2"	0	240 (370)	4.8	5.6
3/4"	0	150 (240)	10.0	11.6
1"	0	150	14.0	16.2
11/4"	0	100	23.0	26.6
1½"	0	60	30.0	34.7
2"	0	45	37.0	42.8



NAMUR ADAPTER PLATE & PILOT VALVE

An adapter can be used to mount pilot valves with NAMUR interface on the actuator of PVS100 series.



STROKE LIMITING SYSTEM



This system is available as an option for adjusting the minimum and maximum flow rates.

It can be retrofitted after removal of the standard position indicator.

DIMENSIONS (mm)

R	Α	В	С	D	E	н	L	Т
1/2" NPT	204.5	SW27	183.0	18.5	SW30	164.0	65	13.0
G ½	204.5	SW27	183.0	18.5	SW30	164.0	65	15.0
3/4" NPT	213.5	SW32	189.0	21.0	SW36	168.0	75	14.0
G ¾	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
1¼" NPT	236.5	SW50	221.5	28.5	SW41	184.5	110	17.0
G 1¼	236.5	SW50	221.5	28.5	SW41	184.5	110	21.5
1½" NPT	238.5	SW55	217.0	31.0	SW41	186.0	120	17.0
G 1½	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

SW 36

102.5

53.5

The PVS100 Series pneumatic seat valves were developed and designed using the following harmonised standards:

EN 292 Machine Safety
EN 983 Pneumatic Systems
EN 60 204-1 Electrical Equipment for Machinery

3/2 WAY SOLENOID PILOT VALVE

This brass-body directly actuated seat valve is used as pilot solenoid valve for Indumart series PVS100 and PVP200 pneumatic seat valves.

Silent ventilation, reliable switching and long life teflonic core make this valve the best choice for pilot switching.



Body Seat Seal Connection Min. Pressure Max. Pressure Fluid Temperature Standard Voltage

Brass NBR (Perbunan) 1/4" 15 psi (1 bar) 120 psi (8 bar) up to 60°C 24 VDC, 24 VAC, 230 VAC 0.3 kg

Weight