

## PNEUMATIC CONTROL VALVES

### PV926

( V926 angle valves series with linear actuators PA series )

#### DESCRIPTION

The PV926 control valves are single seated, two-way body constructed with angle connections. The PA pneumatic actuator is rubber diaphragm and multi-springs. It's action can be DA - direct action (air to close) or RA-reverse action (air to open). The PV926 valves have been designed to assure an accurate control in any process condition. The self draining design is ideally suited to applications in clean steam service.

#### MAIN FEATURES

Single seated, two way, direct or reverse action valve.

Valve top flange permanently attached to the body, removal is unnecessary for replacing the actuator.

Metal to metal or soft sealing.

Self draining design

#### STANDARD SURFACE FINISH

Internal parts: 0,5 microns Ra

External:

Body

Fine machined (mechanical or electro polished as option)

Actuator

Stainless steel satin bead blast finish – 1,6 microns Ra

Steel painted

OPTIONS:

- Soft sealing
- Position transmitter
- Pneumatic pilot positioner
- Air filter regulator
- Top-work manual handwheel



USE:

- Saturated steam
- Hot and superheated water
- Air and gases compatible with the construction

MAX.AIR SUPPLY: 3,5 bar

AMBIENT

TEMPERATURE: -20°C ....+70°C

AVAILABLE MODELS:

PV926

STEM SEALING: VITON/PTFE O-Rings 170°C

VALVE SIZES:

DN1/2" to DN2" ; DN15 to DN50

PLUG TYPES:

- Equal percentage (EQP)
- Linear (PL)
- On-Off (PT)

CONNECTIONS:

Clamp ends or other on request

PORT:

- Full port as standard
- Reduced or microflow on request

PNEUMATIC ACTUATORS:

PA-205,PA-280,PA-340,PA-435

ACTUATOR CONN: 1/4" NPT-F

CONTROL SIGNAL: 0,2 – 1bar; 0,4 – 1,2 bar; 0,4 – 2 bar

ELECTRIC ACT.: Consult catalogue IS EL20.00 E

HOW TO SELECT: Never size the valve according to the pipe diameter in which it has to be fitted, but according to the required actual flow of steam or water. Refer to the valve calculation data sheet or consult the factory.

#### CE MARKING (PED - European Directive 97/23/EC)

PN 16	Category
DN1/2" to DN2"	SEP - art. 3, paragraph3

MATERIALS		
POS.	DESIGNATION	MATERIAL
1	Valve Body	AISI316L / 1.4404
2	Bonnet	AISI316L / 1.4404
3	Actuator (Steel)	S235JRG2 / 1.0038
	Actuator (Stainless steel)	AISI304 / 1.4301
4	* Diaphragm	NBR 70
5	Yoke (Steel)	C45E / 1.1191
	Yoke (Stainless steel)	AISI304 / 1.4301
6	Valve Seal	PTFE
7	* Standard packing	VITON / PTFE

\* Available spare parts

VALVE BODY LIM. CONDITIONS	
PRESSURE/TEMPERATURE	
16 bar	100 °C
15 bar	150 °C
14 bar	200 °C

DIMENSIONS (Clamp conn.)						
VALVE BODY			ACTUATOR			
DN	A (mm)	B (mm)	C (mm)	Type	D (mm)	ø E (mm)
1/2"-15	60	49	62,5	PA-205	235	210
3/4"-20	60	49	62,5	PA-280	240	275
1"-25	60	49	62,5	PA-340	265	335
11/4"-32*	60	65	67,5	PA-435	295	430
11/2"-40	60	65	67,5			
2"-50	60	65	67,5			

Consult factory for certified dimensions.

Dimensions subject to change without notice.

\*Not available with ASME BPE

FLOW RATE COEFFICIENTS						
	SIZES					
	1/2"-15	3/4"-20	1"-25	11/4"-32	11/2"-40	2"-50
Kvs	3,8	5,1	9,4	15,4	22,2	40,1

 Kvs in m<sup>3</sup>/h , see data sheet IS PV10.00 E ;

For conversion Kvs = Cv(US) x 0,855

ACTUATOR STROKE IN mm						
	SIZES					
	1/2"-15	3/4"-20	25-1"	11/4"-32*	11/2"-40	2"-50
Stroke	20	20	20	20	20	20

Connection examples		
Clamp	Round thread	Flange

