

## 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 wetted parts:  $\leq 0,5$  micron Ra  
External :  $\leq 0,8$  micron Ra  
( 0,25 micron Ra and electro polished as option)  
Ultrasonic cleaning  
Actuator :  
Stainless steel satin bead blast finish – 1,6 micron 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

### AVAILABLE

#### MODELS:

PV926

#### VALVE SIZES:

DN1/2" to DN2" ; DN15 to DN50

### CONNECTIONS:

Clamp ends or other on request

### PACKAGING:

Assembling and packaging in a clean room certified according to ISO 14644-1.

The product is end capped and vacuum sealed with recyclable plastic film to avoid contamination.

### 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.



MAX.AIR SUPPLY: 3,5 bar

### AMBIENT

TEMPERATURE: -20°C ....+70°C

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

PLUG TYPES: Equal percentage (EQP)  
Linear (PL)  
On-Off (PT)

### PORT:

Full port as standard  
Reduced or microflow on request

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
1.1	Ferrule	AISI316L / 1.4404
2	Bonnet	AISI316L / 1.4404
2.1	Bolts	DIN 933 A-2
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	AISI316L / 1.4404
8	O-ring	EPDM
9	O-ring	VITON
10	Seal washer	VITON

**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
1 1/4"-32*	60	65	75,5	PA-435	295	430
1 1/2"-40	67,5	70	84			
2"-50	67,5	80	77,5			

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	1 1/4"-32	1 1/2"-40	2"-50	
Kvs 1,7* - 3	3,7* - 5,1	6,3* - 9,4	15,4	19,2* - 22,2	27,7* - 40,1	

\* Max. available Kvs with ASME BPE clamp connections

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"	1 1/4"-32*	1 1/2"-40	2"-50	
Stroke	20	20	20	20	20	20

