

PNEUMATIC CONTROL VALVES PV922

(V922 globe valves series with linear actuators PA series)

DESCRIPTION

The PV922 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 PV922 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.

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

Self draining design

USE:

Saturated steam

Hot and superheated water

Air and gases compatible with the construction

AVAILABLE

MODELS:

PV922

VALVE SIZES:

DN1/2" to DN2" ; DN15 to DN50

CONNECTIONS:

Clamp ends or others 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.



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
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
8	Bottom cover	AISI316L / 1.4404

* Available spare parts

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

DIMENSIONS						
VALVE BODY				ACTUATOR		
DN	A (mm)	B (mm)	C (mm)	Type	D (mm)	ø E (mm)
1/2"-15	150	80	77	PA-205	235	210
3/4"-20	150	80	77	PA-280	240	275
1"-25	150	80	77	PA-340	265	335
1 1/4"-32*	175	90	85	PA-435	295	430
1 1/2"-40	175	90	85			
2"-50	175	90	85			

Consult factory for certified dimensions
 Dimensions subject to change without notice
 *Not available with ASME BPE

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

Kvs in m³/h , see data sheet IS PV10.00 E;
 For conversion Kvs = Cv(US) x 0,855

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

Connection examples		
Clamp	Round thread	Flange

