

PNEUMATIC CONTROL VALVES PV926A

(V926A aseptic angle valve with linear actuator PA series)

DESCRIPTION

The PV926A aseptic control valves are single seated, two-way body constructed with angle connections. The PA pneumatic actuator features a rubber diaphragm and multi-springs. Its action can be DA - direct action (air to close) or RA – reverse action (air to open). The PV926A valves have been designed to ensure an accurate control in any process condition. The self draining design is ideally suited for clean steam service applications.

MAIN FEATURES

Completely made from solid bar stock material.
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: ≤ 0,51 micron Ra – SF1.
External : ≤ 0,76 micron Ra – SF3.
Other surface conditions see IS PV20.00 E – Technical information.
Ultrasonic cleaning.
Actuator (stainless steel): Satin bead blast finish 1,6 micron Ra.
Actuator (steel): Electrostatic painted.

OPTIONS: Soft sealing.
Heating chamber.
Inline connections.
Positioners and position transmitters.
Air filter regulator.
Bolted bonnet.

USE: Saturated steam, hot and superheated water.
Process fluids, liquids, air and gases compatible with the construction.

AVAILABLE MODELS:

PV926A.

VALVE SIZES: 1/2" to 2".

CONNECTIONS: ASME BPE.
Clamp ferrules or tube weld ends.
Others on request.

VALVE PORT: Full port as standard.
Reduced or micro flow on request.

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

PACKAGING: Assembling and packaging in a clean room certified according to ISO 14644-1.
The product is end capped and sealed with recyclable thermo-shrinkable plastic film, to avoid contamination.

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 fluid. Refer to valve calculation table or consult factory.



Clamp



Tube weld

PNEUMATIC ACTUATORS: PA205; PA280; PA340
ACTUATOR CONNECTIONS: 1/4" NPT-F
CONTROL SIGNAL: 0,4 – 1,2 bar; 0,4 – 2 bar
ELECTRIC ACT.: Consult IS EL 20.00 E.
MAX. AIR SUPPLY: 3,5 bar.
AMBIENT TEMPERATURE: - 20 °C to +70 °C.

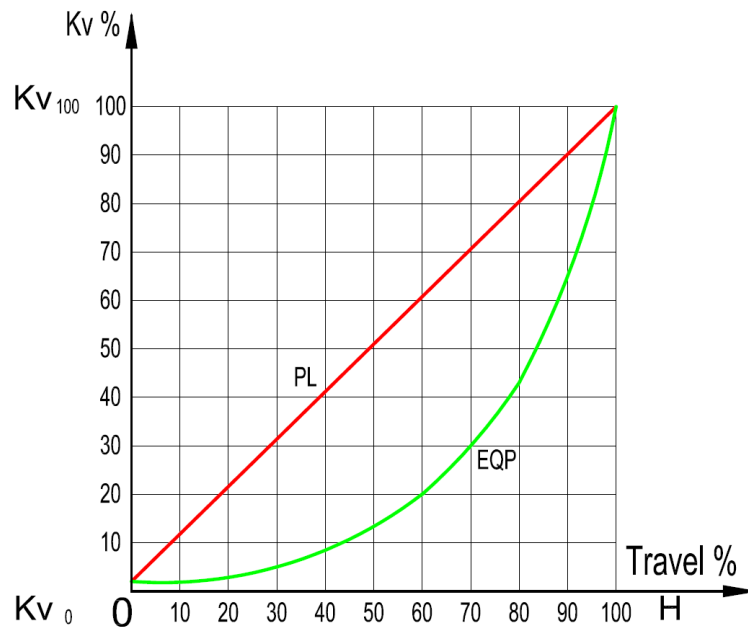
LIMITING CONDITIONS	
Valve model	V926A
Body design conditions	PN16
Maximum operating pressure	13 bar @ 38 °C
Maximum operating steam pressure	6 bar
Max. operating temp. (steam and water)	170 °C
Maximum operating temperature (air)	150 °C
Minimum operating temperature	- 10 °C

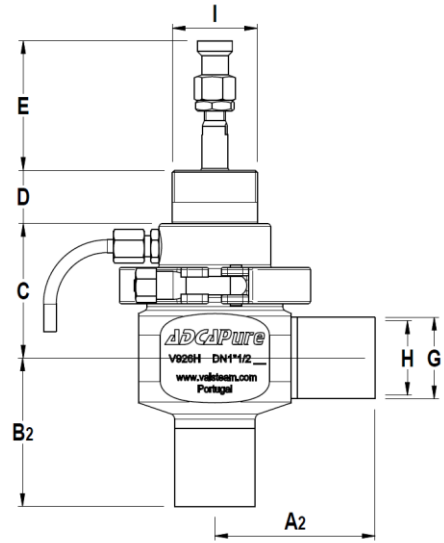
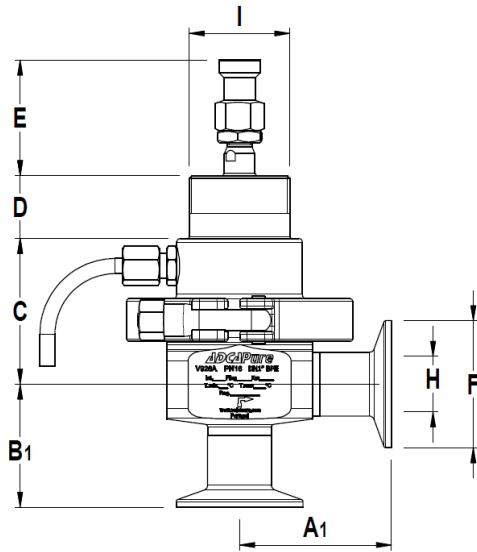
Higher and lower limits on request.

CE MARKING (PED – European Directive)	
PN16	Category
1/2" to 2"	SEP

FLOW RATE COEFFICIENTS Kvs							
SEAT Ø (mm)	VALVE STROKE (mm)	SIZES					
		1/2"	3/4"	1"	1 1/4"	1 1/2"	2"
4 *	7,5	0,1	–	–	–	–	–
4 *		0,25	–	–	–	–	–
4 *		0,5	–	–	–	–	–
8 *		1	–	–	–	–	–
8 *		1,5	–	–	–	–	–
8 *		2	2	–	–	–	–
12		–	2,3	2,8	–	–	–
12		–	2,9	3,7	–	–	–
15		–	4,2	5,2	–	7,8	–
19		–	–	7	–	9,8	–
25	15	–	–	–	–	14,7	21,1
32		–	–	–	–	17,8	25,4
38		–	–	–	–	–	27,7
47		–	–	–	–	–	34,7

* Microflow available only with contoured linear characteristic.
 For conversion $Kvs = Cv (US) \times 0,855$.

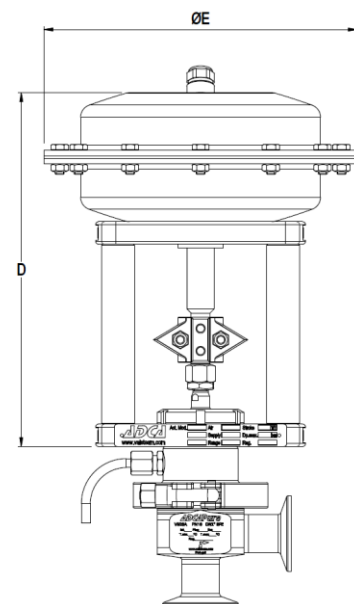




DIMENSIONS (mm) ASME BPE												
SIZE	A ₁	A ₂	B ₁	B ₂	C	D	E	F	G	H	I	WGT. (kg)
1/2"	61	66	41	41	51	25	45	25	12,7	9,4	M40x1,5	1,9
3/4"	61	66	46	46	53	25	45	25	19,05	15,75	M40x1,5	2
1"	61	66	49	49	58	25	45	50,5	25,4	22,1	M40x1,5	2,2
1 1/2"	77	85	62	70	68	25	45	50,5	38,1	34,8	M40x1,5	3,7
2"	77	87	62	72	75	25	45	64	50,8	47,5	M40x1,5	4,2

Face to face dimensions are not standardized. Different dimensions available on request.

DIMENSIONS PNEUMATIC ACTUATOR			
Type	D (mm)	Ø E (mm)	WEIGHT (kg)
PA205	235	210	5,7
PA280	240	275	8,8
PA340	265	335	14,3

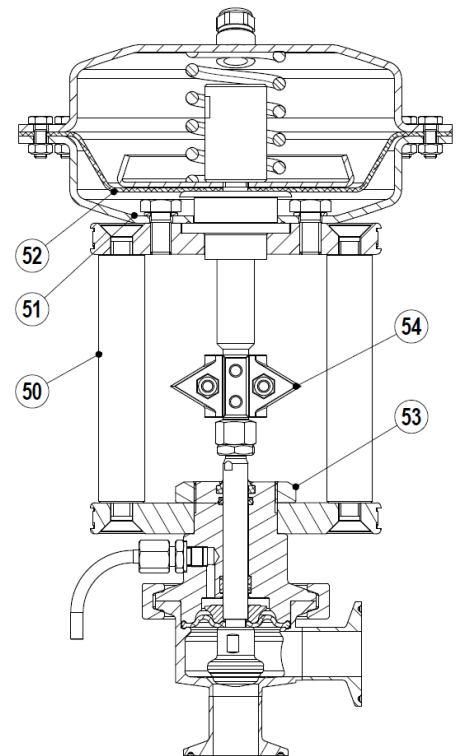
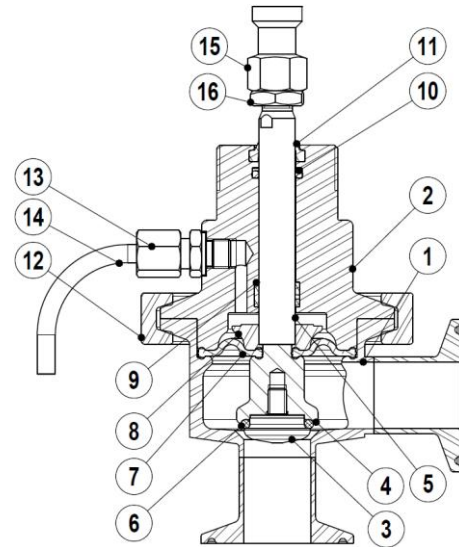


MATERIALS		
POS. Nº	DESIGNATION	MATERIAL
1	Valve body	AISI 316L / 1.4404
2	Bonnet	AISI 316L / 1.4404
3	* Valve plug	AISI 316L / 1.4404
4	Plug disc	AISI 316L / 1.4404
5	* Stem	AISI 316L / 1.4404
6	Valve plug seal	High performance EPDM
7	* Diaphragm	High performance EPDM
8	Diaphragm plate	AISI 316L / 1.4404
9	* Guide bushing	PTFE
10	* O-ring	EPDM
11	* Scraper ring	Viton
12	Clamp	AISI 316 / 1.4401
13	Leak-off connection	AISI 304 / 1.4301
14	Discharge pipe	AISI 316 / 1.4401
15	Nut adapter	AISI 316 / 1.4401
16	Lock nut	Stainless Steel A2 – 70
50	Yoke (steel)	C45E / 1.1191
	Yoke (stainless steel)	AISI 304 / 1.4301
51	Actuator (steel)	S235JRG2 / 1.0038
	Actuator (stainless steel)	AISI 304 / 1.4301
52	* Diaphragm	NBR 70
53	Lock nut	CF8 / 1.4308
54	Coupling (travel indicator)	CF8 / 1.4308

* Available spare parts;

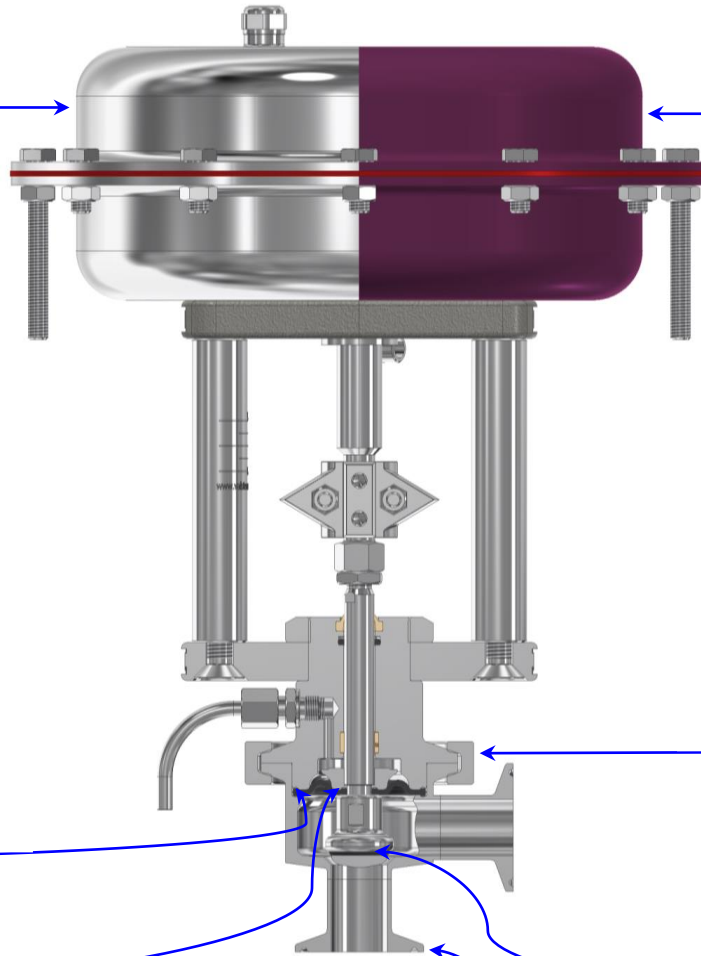
FDA / USP Class VI seals certificate on request.

All valves have a serial number. In case of non standard valves this number must be supplied if spare parts are ordered.



Alternative stainless steel actuator and yoke

Electrostatic painted actuator



Clamped body and bonnet
Easily detachable

Air trap free design

Gap absense between the bonnet and shaft seal

Seating:
Metal to metal – Class IV
Soft – Class VI

All wetted sealing materials comply with FDA regulations and are conform USP Class VI

Suitable for CIP and SIP

316L
Solid barstock construction

Optional heating chamber
(to maintain the required temperature for the fluid flowing through the valve)

