



PNEUMATIC CONTROL VALVES

PV928

(V928 hygienic angle valve with linear actuator PA series)

DESCRIPTION

The PV928 are two or three way control valves with angle connections, specially designed for food, chemical pharmaceutical and cosmetic industries among others. 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 PV928 valves have been designed to assure an accurate control in any process condition and they have self draining design.

MAIN FEATURES

Quick disassembling through clamp body bonnet coupling Completely made from solid bar stock material Valve bonnet 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: ≤ 0,5 micron Ra External : ≤ 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 Actuator (steel): Electrostatic painted

OPTIONS:	Soft sealing Steam barrier
	Low noise and anti-cavitation plugs Positioners and position transmitters Air filter regulator
USE:	Saturated steam, hot and superheated water
	Process fluids, liquids, air and gases compatible with the construction
AVAILABLE	
MODELS:	PV928L-Two way angle valve
	PV928H-Two way horizontal valve
	PV928M-Three way mixing valve
	PV928D-Three way diverting valve
VALVE SIZES:	DN15 to DN100
CONNECTIONS:	DIN, others on request.
	Tube weld, clamp ferrules and threads
VALVE PORT:	Full port as standard
	Reduced or micro flow on request
PLUG TYPES:	Equal percentage (EQP)
	Linear (PL)
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.



LIMITING CONDITIONS					
V928					
PN 16					
13 bar @ 38 °C					
6 bar					
170 °C					
150 °C					
- 10 ºC					

CE MARKING (PED - European Directive)						
PN 16	Category					
DN15 to DN50		SEP				
DN65 to DN100		1 (CE Marked)				
PNEUMATIC						
ACTUATORS:	PA-2	205,PA-280,PA-340,PA-435				
ACTUATOR						
CONNECTIONS:	1⁄4" [NPT-F				
CONTROL						
SIGNAL:	0,4	– 1,2 bar; 0,4 – 2 bar				
ELECTRIC ACT.:	Con	sult IS EL20.00 E				
MAX.AIR SUPPLY:	3,5	bar				
AMBIENT						
TEMPERATURE:	-200	°C+70°C				

VALSTEAM ADCA



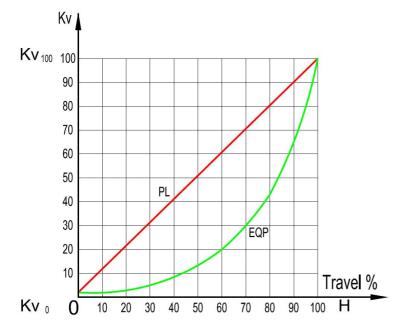


			FLOWRA	TE COEFF	ICIENTS KV	′s (m3/h)				
SEAT Ø	VALVE STROKE	VALVE SIZES								
mm	mm	DN15	DN20	DN25	DN32	DN40	DN50	DN65	DN80	DN100
4 *		0,1	—	_	—		—	—	—	_
4 *		0, 25		_		_		—	_	_
4 *		0,5	—	_	—	_	—	—	—	_
8 *		1	—	_	—		—	—	—	_
8 *		1,5		_	_		_	_		
8 *		2	2,4	_	—	_	—	—		—
12	20	2,3	2,8	3		—	—	—	<u> </u>	—
12	20	2,9	3,7	4	4,3		—	—		
15		4,2	5,2	6,5	7,8	8,4	—	—	—	—
19			7	8,7	9,8	11,2	12,3			
25				12	14,7	18	21,1	23		—
32			—		17,8	21	25,4	31	34	
38		—	—	_	—	22,2	27.7	34,6	40,8	44,7
50			—	—	—	—	40,1	49	61	68
65		—	—	—		_		63,4	79,2	91
76	30	—	—	—	—	—	—	—	89,7	112,1
96		_	—	_	_	_	_	_	—	136,7

* Microflow available only with contoured linear characteristic.

For conversion $Kvs = Cv(US) \times 0.855$

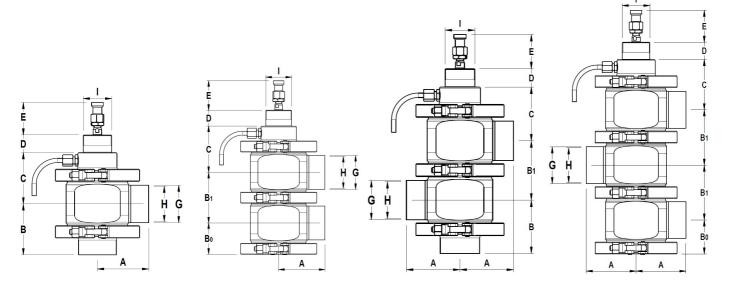
HOW TO SELECT: Never size the valve seat according to the pipe diameter in which it has to be fitted, but according to the required actual fluid flow / Kvs. Refer to the valve calculation data sheet or consult the factory.



VALSTEAM ADCA







V928L

V928H

V928MV

V928MH V928D

	VALVE DIMENSIONS (mm)														
SIZE DN	(1)A	(1)B	(2)A	(2)B	(3)A	(3)B	B0	B1	С	D	E	G	н	I	WGT. Kgs*
15	45	45	57	65	70	78	34	50	56	25	45	19	16	M40x1,5	2,1
20	45	45	57	65	72	80	34	50	56	25	45	23	20	M40x1,5	2,3
25	55	55	55	66	63	84	36	55	59	25	45	29	26	M40x1,5	2,7
32	56	56	69	71	88	91	40	62	63	25	45	35	32	M40x1,5	3,8
40	64	64	77	74	74	97	45	73	69	25	45	41	38	M40x1,5	3,9
50	72	72	83	80	82	107	51	85	75	25	45	53	50	M40x1,5	5,1
65	86	86	92	92	104	126	64	110	92	25	45	70	66	M45x1.5	9,9
80	109	109	92	106	109	154	71	125	100	25	45	85	81	M45x1.5	10,8
100	119	119	98	116	124	173	80	144	109	25	45	104	100	M45x1.5	16,2

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

Key: (1)A-(1)B - Tube weld DIN 11866 Series A (DIN 11850).

(2)A-(2)B - Clamp ferrules DIN 32676 Series A.

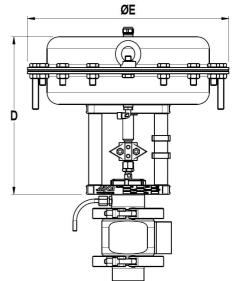
(3)A-(3)B - Hygienic male threaded ferrule DIN 11851, for pipe DIN 11866 Series A (DIN 11850).

Alternative:Aseptic male threaded ferrule DIN 11864 Series 1 Form A,for pipe DIN 11866 Series A (DIN 11850). Other dimensions and standards on request.

* Weight is based on the standard valve V928L with tube weld connections, for the other versions, please consult.

** Configuration with overlapped connections only possible for tube weld design.

	ACTUATOR I ACTU		5		
Type D E WGT. (mm) (mm) Kgs					
PA-205	235	210	5,7		
PA-280	240	275	8,8		
PA-340	265	335	14,3		
PA-435	295	430	24,5		





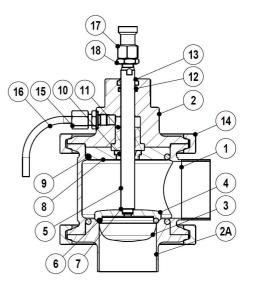


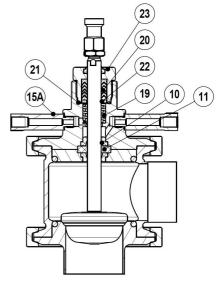


MATERIALS						
POS.	DESIGNATION	MATERIAL				
1	Valve body	AISI316L / 1.4404				
2	Bonnet	AISI316L / 1.4404				
2A	Bottom cover/connection	AISI316L / 1.4404				
3	* Valve plug	AISI316L / 1.4404				
4	Plug disc	AISI316L / 1.4404				
5	* Stem	AISI316L / 1.4404				
6	Valve plug seal	High performance EPDM				
7	O-ring	High performance EPDM				
8	Centering ring	AISI316L / 1.4404				
9	* O-ring	High performance EPDM				
10	* Shaft seal	High performance EPDM				
11	* Guide bushing	TFM 1600				
12	* O-ring	EPDM				
13	* Scraper ring	VITON				
14	Clamp	AI SI316 / 1.4401				
15	Leak-off connection	AI SI304 / 1.4301				
15A	Nipple	AISI316L / 1.4404				
16	Discharge pipe	AI SI316 / 1.4401				
17	Nutadapter	AI SI316 / 1.4401				
18	Lock nut	A2 - 70				
19	Spring	AI SI302 / 1.4300				
20	*Packing (chevron rings)	PTFE				
21	*O-ring	High performance EPDM				
22	*Washer	AI SI304 / 1.4301				
23	Gland nut	AISI316L / 1.4404				
50	Yoke (steel)	C45E / 1.1191				
50	Yoke (stainless steel)	AI SI304 / 1.4301				
51	Actuator (steel)	S235JRG2 / 1.0038				
51	Actuator (stainless steel)	AI SI304 / 1.4301				
52	* Diaphragm	NBR 70				
53	Lock nut	CF8 / 1.4308				
54	Coupling (travel indicator)	CF8 / 1.4308				

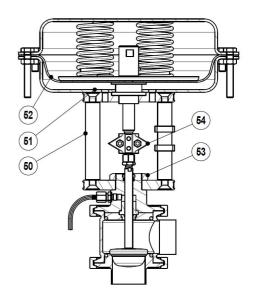
* Available spare parts. ** On request

Remarks: 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.





Valve with steam barrier option



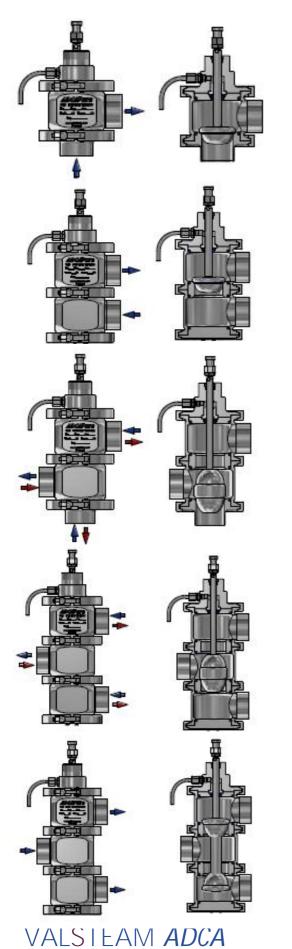


We reserve the right to change the design and material of this product without notice.





HOUSINGS DESIGNS AND CONNECTIONS



V928 Type L

closing direction.

Two way basic hygienic standard design with one angle main valve body type connection. The vertical valve inlet has the integrated valve seat. The flow connection should always be against the plug

V928 Type H

Two way design with two main valve bodies each one with an horizontal connection.

The valve seat is placed between the two main bodies. Configuration with overlapped connections only possible for tube weld design.

V928 Type MV

Three way valve design with two main valve bodies and with a bottom vertical connection. This valve can be used as mixing or diverting flow.

V928 Type MH

Three way valve design with three main bodies and all the connections on the horizontal plan. This valve can be used as mixing or diverting.

V928 Type D

Three way valve design with three main bodies and connection in an horizontal plan. This valve is designed for flow diverting.