

Pneumatic Control Valves PV928

(V928 angle type valves with linear actuators Paserles)

SEALING
SYSTEMS

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

1. Completely made from solid bar stock material.
2. Single seated, two way, direct or reverse action valve.
3. Valve bonnet permanently attached to the body, removal is unnecessary for replacing the actuator.
4. Metal to metal or soft sealing.
5. Self draining design.

STANDARD SURFACE FINISH

Internal wetted parts: $\leq 0,51$ micron Ra – SF1.

External: $\leq 0,76$ 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
Steam barrier
Position transmitter
Pneumatic pilot positioner
Air filter regulator
Top-work manual handwheel

USE: Saturated steam liquids and gases compatible with the construction

AVAILABLE MODELS: PV928A-Two way angle valve
PV928H-Two way horizontal valve
PV928M-Three way mixing valve
PV928D-Three way diverting valve

VALVE SIZES: DN1/2" to DN4" ; DN15 to DN100

CONNECTIONS: Tube weld, screwed, flanged and sanitary clamp.

PNEUMATIC ACTUATORS: PA-205,PA-280,PA-340,PA-435

ACTUATOR CONN: 1/4" NPT-F

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

ELECTRIC ACT.: Consult catalogue IS EL20.00 E



LIMITING CONDITIONS

Valve model	V928
Body design conditions	PN16
Maximum operating pressure	13bar @ 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
DN 15 to DN 50	SEP
DN 65 to DN 100	1 (CE Marked)

MAX.AIR SUPPLY: 3,5 bar

AMBIENT TEMPERATURE: -20°C+70°C

STEM SEALING: EPDM or PTFE
Considering the medium and temperature

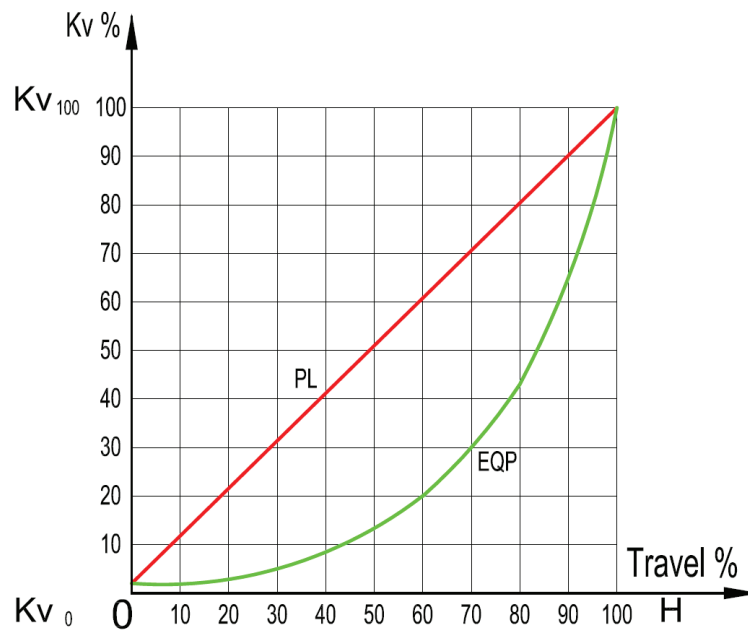
PLUG TYPES: Equal percentage (EQP)
Linear (PL)
On-Off (PT)

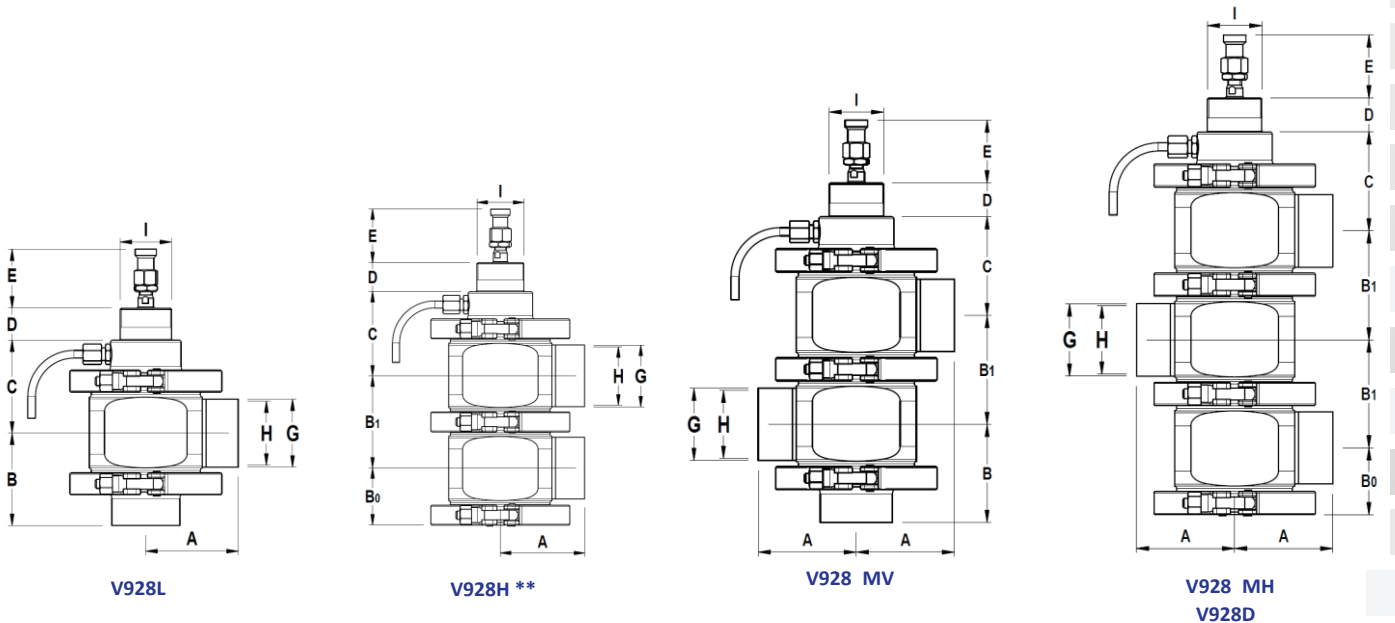
PORT: Full port as standard
Reduced or microflow on request

FLOW RATE COEFFICIENTS (Kvs)

SEAT Ø (mm)	VALVE STROKE (mm)	SIZES								
		DN 15	DN 20	DN 25	DN 32	DN 40	DN 50	DN 65	DN 80	DN 100
4 *	20	0,1	-	-	-	-	-	-	-	-
4 *		0,25	-	-	-	-	-	-	-	-
4 *		0,5	-	-	-	-	-	-	-	-
8 *		1	-	-	-	-	-	-	-	-
8 *		1,5	-	-	-	-	-	-	-	-
8 *		2	2,4	-	-	-	-	-	-	-
12		2,3	2,8	3	-	-	-	-	-	-
12		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	30	-	-	-	-	-	63,4	79,2	91	
76		-	-	-	-	-	-	89,7	112,1	
96		-	-	-	-	-	-	-	136,7	

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





DIMENSIONS (mm) DIN

SIZE DN	A(1)	B(1)	A(2)	B(2)	A(3)	B(3)			C	D	E	G	H	I	
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	10,9
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. Different dimensions available on request.

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

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

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

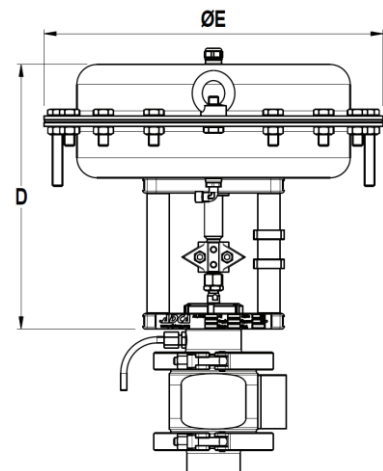
Alternative: Aseptic male threaded ferrule DIN 11864 Series 1 Form A, for pipe DIN 11866 Series A (DIN 11850).

Other dimensions and standards on request.

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

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

Type	D (mm)	Ø E (mm)	WEIGHT (kg)
PA205	235	210	5,7
PA280	240	275	8,8
PA340	265	335	14,3
PA435	295	430	24,5

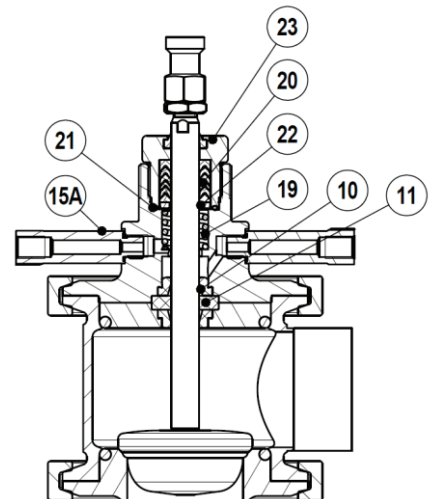
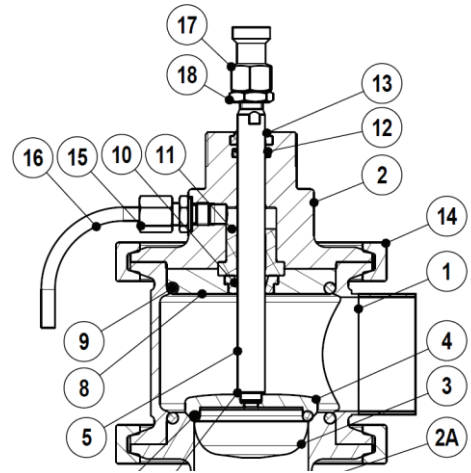


MATERIALS		
		MATERIAL
1	Valve body	AISI 316L / 1.4404
2	Bonnet	AISI 316L / 1.4404
2A	Bottom cover / connection	AISI 316L / 1.4404
3	* Valve plug	AISI 316L / 1.4404
4	Plug disc	AISI 316L / 1.4404
5	* Stem	AISI 316L / 1.4404
6	Valve plug seal	High performance EPDM
7	O-ring	High performance EPDM
8	Centering ring	AISI 316L / 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	AISI 316 / 1.4401
15	Leak-off connection	AISI 304 / 1.4301
15A	Nipple	AISI 316L / 1.4404
16	Discharge pipe	AISI 316 / 1.4401
17	Nut adapter	AISI 316 / 1.4401
18	Lock nut	Stainless Steel A2 – 70
19	Spring	AISI 302 / 1.4300
20	* Packing (chevron rings)	PTFE
21	* O-ring	High performance EPDM
22	* Washer	AISI 304 / 1.4301
23	Gland nut	AISI 316L / 1.4404
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

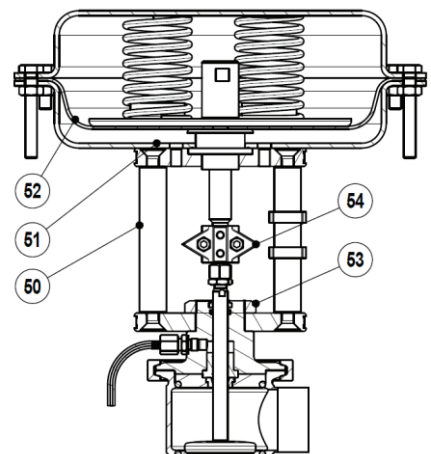
* Available spare parts

FDA / USP Class VI seals certificate on request.

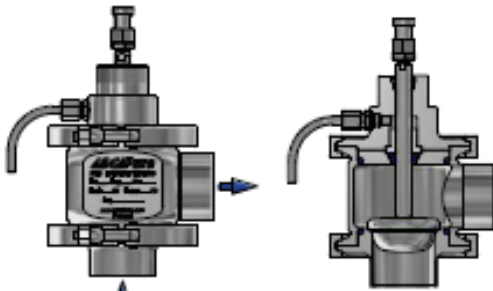
All valves have a serial number. In case of non standard valves this number must be supplied if spare parts are ordered.



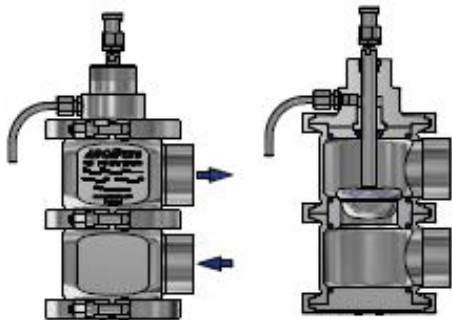
Valve with
stem



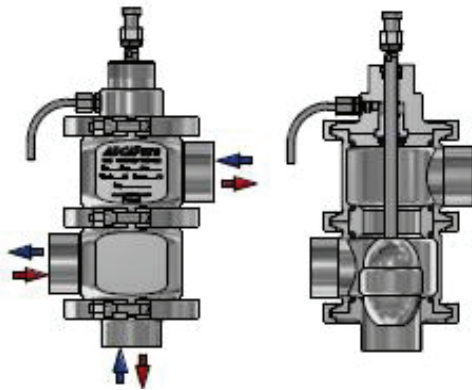
HOUSINGS DESIGNS AND CONNECTIONS



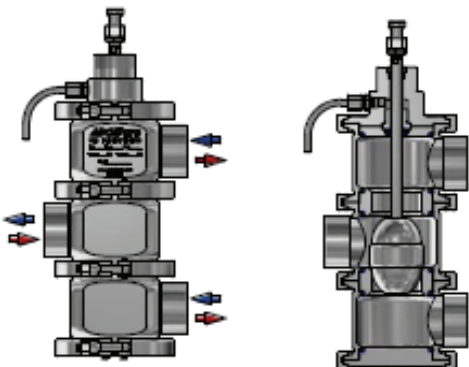
V928 Type L
 Two way basic hygienic standard design with one angle main valve body type connection.
 The vertical valve inlet has the integrated valve seat.
 The flow connection should always be against the plug closing direction.



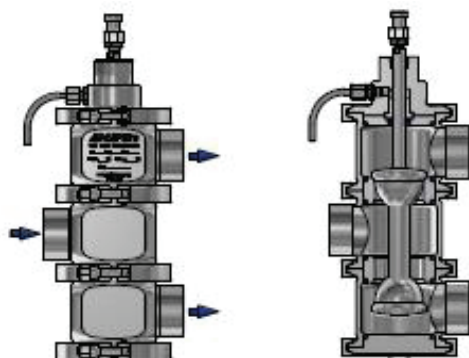
V928 Type H
 Two way design with two main valve bodies each one with an horizontal connection.
 The valve seat is placed between the two main bodies.
 Configuration with overlapped connections only possible for tube weld design.



V928 Type MV
 Three way valve design with two main valve bodies and with a bottom vertical connection.
 This valve can be used for mixing or diverting.



V928 Type MH
 Three way valve design with three main bodies and all the connections on the horizontal plan.
 This valve can be used for 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.