







SANITARY PRESSURE REDUCING VALVE P130L

DESCRIPTION

The ADCA P130L low flow series direct acting, spring-loaded diaphragm sensing pressure reducing valves are designed for use with clean air, nitrogen, carbon dioxide, oxygen, argon and other gases or liquids compatible with the construction materials and valve design. This valve is specifically designed for the high purity gas systems found in the pharmaceutical, cosmetic, fine chemical and food & beverage processes.

MAIN FEATURES

Compact design.

Completely machined from 316L stainless steel bar stock, no castings or forgings are used.

FDA / USP Class VI compliant seals.

Non-rising adjustment knob.

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.

OPTIONS: Self relieving.

Leakage line connection 1/8" (captured vent).

Panel mounting version (thread M45).

Gauge connection on body.

Different soft valves for liquids and gases.

Wall mounting.

USE: Clean air, nitrogen, carbon dioxide, oxygen,

argon and other gases or liquids compatible with

the construction.

AVAILABLE

MODELS: P130L – low flow.

SIZES: 1/2" to 3/4"; DN 08 to DN 20.

REGULATING

RANGES: 0.2 - 1.5 bar; 0.3 - 3 bar; 2 - 8 bar.

CONNECTIONS: ASME BPE, DIN and ISO clamp ferrules or tube

weld (ETO) ends. Others on request.

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.

INSTALLATION: Any position.

See IMI – Installation and maintenance

instructions.





LIMITING CONDITIONS							
Valve model	P130L						
Body design conditions	PN 16						
Maximum upstream pressure	16 bar						
Maximum downstream pressure	8 bar						
Minimum downstream pressure	0,2 bar						
Maximum design temperature *	150 °C						

^{*} Others on request.

CE MARKING – GROUP 2 (PED – European Directive)							
PN 16	Category						
1/2" to 3/4" – DN 08 to 20	SEP						







FLOW RATE COEFFICIENTS (m³/h)										
		BPE			DIN					
SIZE	1/2" to 3/4"				N 10 to DN 2	0		5		
Kvs	0,06	0,19	0,25	0,06	0,19	0,25	0,06	0,19	0,25	

	DIMENSIONS (mm) ASME BPE									
SIZE A B		С	D d1 d2			E	F	Н	WEIGHT (kg) *	
1/2"	115	23	120	64	25	15,75	65	25	9,4	2,13
3/4"	115	23	120	64	25	15,75	65	25	15,75	2,14

^{*} Valves with nylon adjustment knob weigh 0,3 kg less.

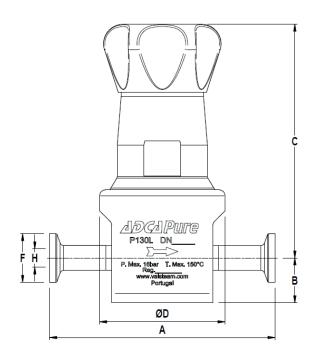
	DIMENSIONS (mm) DIN											
SIZE	SIZE A B		С	C D d1		d2	E	F	н	WEIGHT (kg) *		
DN 10	115	23	120	64	25	15,75	65	34	10	2,11		
DN 15	115	23	120	64	25	15,75	65	34	16	2,13		
DN 20	115	23	120	64	25	15,75	65	34	20	2,15		

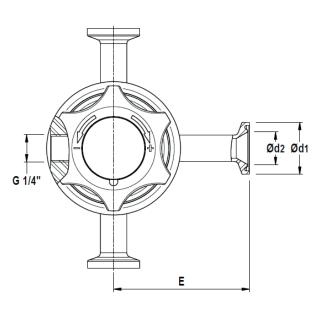
^{*} Valves with nylon adjustment knob weigh 0,3 kg less.

Remarks: Clamp ferrules according to DIN 32676-A; Tube weld (ETO) according to DIN 11866-A (DIN 11850-2).

DIMENSIONS (mm) ISO										
SIZE	АВ		B C D d1 d2		d2	E	F	н	WEIGHT (kg) *	
DN 08	115	23	120	64	25	15,75	65	25	10,3	2,11
DN 10	115	23	120	64	25	15,75	65	25	14	2,12
DN 15	115	23	120	64	25	15,75	65	50,5	18,1	2,13

* Valves with nylon adjustment knob weigh 0,3 kg less.
Remarks: Clamp ferrules according to DIN 32676-B; Tube weld (ETO) according to DIN 11866-B (ISO 1127).





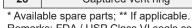
Optional pressure gauge connection.





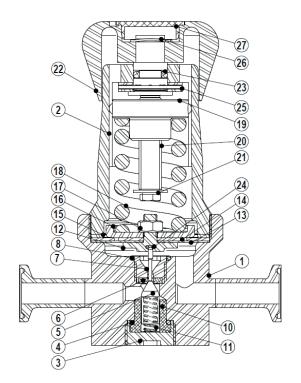


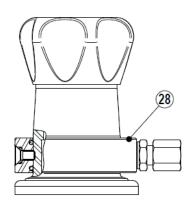
	MATERIA	LS
POS.	DESIGNATION	MATERIAL
1	Valve body	AISI 316L / 1.4404
2	Cover	AISI 316L / 1.4404
3	Seat cover	AISI 316L / 1.4404
4	* O-ring	Viton ; EPDM
5	* Valve	AISI 316L / 1.4404
6	* Valve seat seal	TFM 1600 ; EPDM ;
7	* Valve seat	AISI 316L / 1.4404
8	* O-ring	EPDM
10	Guide	TFM 1600
11	* Valve spring	AISI 316 / 1.4401 electropolished
12	Pusher disc	AISI 316L / 1.4404
13	* Lower diaphragm	PTFE (Gylon)
14	* Upper diphragm	EPDM
15	Washer	AISI 304 / 1.4301
16	Spring plate	AISI 316 / 1.4401
17	Nut	Stainless steel A2-70
18	* Adjustment spring	AISI 302 / 1.4300
19	Spring plate	AISI 316 / 1.4401
20	Adjustment screw	Brass
21	Retaining washer	Stainless steel A2-70
22	Adjustment knob	AISI 316L / 1.4404
22	Adjustment knob	Nylon
23	O-ring	NBR
24	** O-ring	EPDM
25	Bearing	Corrosion resistant steel
26	Ext. bowed shaft ring	Stainless steel
27	Cover nut	Plastic
28	Captured vent ring	AISI 316L / 1.4404

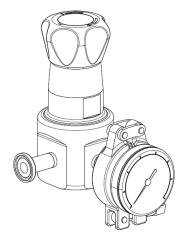


Remarks: FDA / USP Class VI seals certificate on request.

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







Optional Pressure gauge connection.



Optional 1/8" captured vent and/or leakage connection (compression fitting and tube not included).







ORDERING CODES	P130L												
Valve model	P3L	1	3	Т	Т	Х	ı	Х	Х	Х	D	08	Е
P130L – AISI 316L / 1.4404 diaphragm sensing pressure reducing valve	P3L												
Regulating range	1												
0,2 to 1,5 bar		1	1										
0,3 to 3 bar		2											
2 to 8 bar		3	1										
Flow rate coefficient													
Kvs 0,06			3	1									
Kvs 0,19			6	1									
Kvs 0,25			7	1									
Diaphragm				1									
PTFE (Gylon)				Т									
EPDM (non-standard)				E									
Seat material				_									
TFM 1600					Т								
EPDM					E								
Relieving													
Non-relieving						Х	1						
Relieving (only for non-dangerous gases)						R	1						
				-		-	-						
Relieving with captured vent						L	ł						
Adjustment knob and top cap								-					
Stainless steel adjustment knob								-					
Nylon adjustment knob							P	-					
Top cap (adjustment screw with cover)							Т	1					
Gauge port options													
Without gauge ports								X					
Tri-clamp gauge port on the left side (rel. to the flow direction) – downstream pro								7					
Tri-clamp gauge port on the right side (rel. to the flow direction) – downstream p	ressure							6	-				
Tri-clamp gauge port on both sides – downstream pressure								5					
Threaded gauge port on the left side (rel. to the flow direction) – downstream pr			_					4					
Threaded gauge port on the right side (rel. to the flow direction) – downstream p	oressure –	ISO	7 Rp	1/4"				3					
Threaded gauge port on both sides – downstream pressure – ISO 7 Rp 1/4"				-				2					
Threaded gauge port on the left side (rel. to the flow direction) – downstream pr		_						W					
Threaded gauge port on the right side (rel. to the flow direction) – downstream p	ressure –	1/4" I	NPT					Υ					
Threaded gauge port on both sides – downstream pressure – 1/4" NPT								Z					
Surface finish a)													
Standard surface finish									Х				
Mirror mechanical polished external surfaces (SF1)									Р				
Electropolished internal wetted parts (SF5)									Е				
Special features													
None										X			
Degreased for oxygen										0			
Pipe connection													
Clamp ferrule ASME BPE											D		
Clamp ferrule DIN (DIN 32676-A)											F		
Clamp ferrule ISO (DIN 32676-B)											Е		
Tube weld (ETO) according to ASME BPE											DI		
Tube weld (ETO) according to DIN 11866-A (DIN 11850-2)											FI		
Tube weld (ETO) according to DIN 11866-B (ISO 1127)											EI		
Size													
DN 08												08	
DN 10												10	
1/2" or DN 15												15	1
3/4" or DN 20												20	
Special valves / Ex	tras												
Full description or additional codes have to be added in case of non-standard co	ombination												Е

a) Consult IS PV20.00 for further details and other surface finish options.

