







SANITARY PRESSURE REDUCING VALVE P130L (Low flow)

DESCRIPTION

The ADCA P130L low flow series direct acting, springloaded 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.

No rising stem.

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.

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

OUTLET SPRING

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

CONNECTIONS: Clamp ferrules or 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.

ORDER

REQUIREMENTS: Type of fluid.

Maximum operating temperature.

Inlet and outlet pressures.

Flow rate (maximum and minimum).





Cutaway view of valve with pressure gauge connection and vinyl regulating knob

LIMITING CONDITIONS								
Valve model	P130L							
Body design conditions	PN16							
Max. upstream pressure	16 bar							
Max. downstream pressure	8 bar							
Min. downstream pressure	0,2 bar							
Max. design temperature *	150 °C							

^{*} Others on request.

CE MARKING – GROUP 2 (PED – European Directive)						
Category						
SEP						







CAPACITIES											
		BPE			DIN						
Valve size	1/2" and 3/4"			ı	DN 10 to 20)		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			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			

Remarks: Special versions or non-standard sanitary clamp ferrules are available on request, both for the inlet/outlet and pressure gauge connection; Valves with vinyl handwheel weights less 0,3 kg.

	DIMENSIONS (mm) DIN												
SIZE	SIZE A B		C D d1		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			

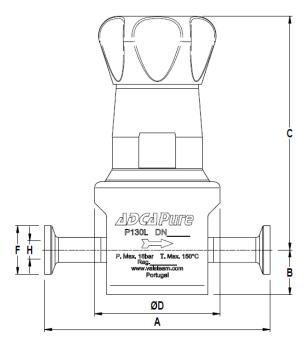
Remarks: Clamp ferrules DIN 32676 Series A; Tube weld DIN 11866 Series A (DIN 11850 Series 2);

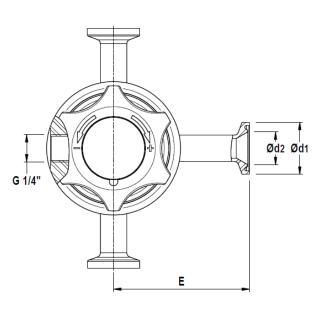
Special versions or non-standard sanitary clamp ferrules are available on request, both for the inlet/outlet and pressure gauge connection; Valves with vinyl handwheel weights less 0,3 kg.

DIMENSIONS (mm) ISO												
SIZE	SIZE A B		C D		d1	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		

Remarks: Clamp ferrules DIN 32676 Series B; Tube weld DIN 11866 Series B (ISO 1127 Series 1);

Special versions or non-standard sanitary clamp ferrules are available on request, both for the inlet/outlet and pressure gauge connection; Valves with vinyl handwheel weights less 0,3 kg.





Optional pressure gauge connection.





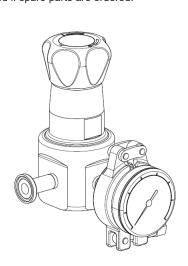


	MATERIA	LS
POS.	DESIGNATION	MATERIAL
1	Valve body	AISI 316L / 1.4404
2	Cover	AISI 316L / 1.4404
3	Seat cover	AISI 316L / 1.4404
4	* O-ring	Viton ; EPDM
5	* Valve	AISI 316L / 1.4404
6	* Valve seat seal	TFM 1600 ; EPDM ;
7	* Valve seat	AISI 316L / 1.4404
8	* O-ring	EPDM
10	Guide	TFM 1600
11	* Valve spring	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	Handwheel	AISI 316L / 1.4404
	nandwheel	Vinyl
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

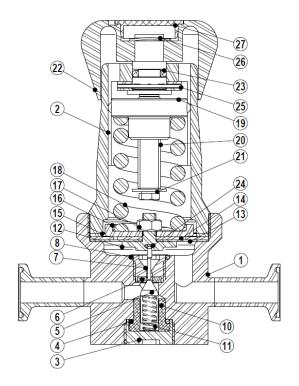
^{*} Available spare parts ; ** If applicable.

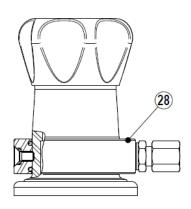
Remarks: FDA / USP Class VI seals certificate on request.

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.







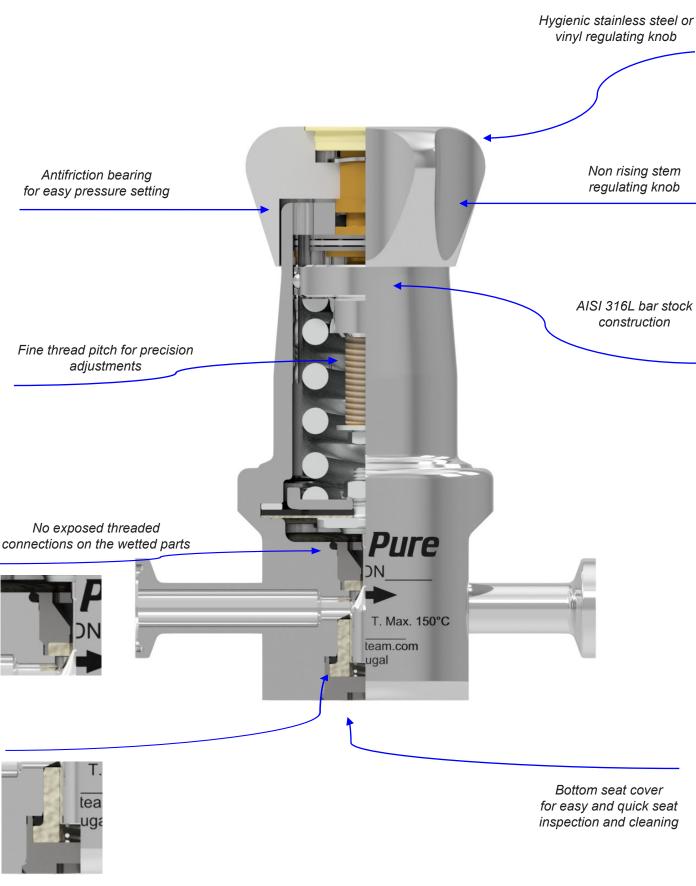
Optional 1/8" captured vent and/or leakage connection.(Compression fitting and tube not included).







MAIN STANDARD FEATURES







ORDERING CODES	P130L												
Valve model	P3L	1	3	Т	Е	Х	ı	Х	Х	Х	D	08	Е
OL – AISI 316L / 1.4404 diaphragm sensing regulator	P3L												Т
Outlet spring range	1												
to 1,5 bar		1	1										
to 3 bar		2											
8 bar		3											
Flow capacity			1										
-0,06			3										
- 0,19			6										
- 0,25			7										
Diaphragm material													
FE (Gylon)				Т									
Seat material													
<i>I</i> 1600					Т								
DM					Е								
Relieving						L							
n-relieving						Х							
eving (only for non-dangerous gases)						R							
eving with captured vent						L							
Regulating knob and top cap													
nless steel							ı						
stic							Р						
cap (adjusting screw sealing)							Т						
Gauge port options													
nout gauge ports								Х					
clamp gauge port on the left side (rel. to the flow direction) – downstream pres	sure							7	1				
clamp gauge port on the right side (rel. to the flow direction) – downstream pro	essure							6	1				
clamp gauge port on both sides – downstream pressure								5					
eaded gauge port on the left side (rel. to the flow direction) – downstream pre-	ssure – IS	SO 7	Rp 1	/4"				4					
eaded gauge port on the right side (rel. to the flow direction) – downstream pr	essure –	ISO T	7 Rp	1/4"				3					
eaded gauge port on both sides – downstream pressure – ISO 7 Rp 1/4"								2					
eaded gauge port on the left side (rel. to the flow direction) – downstream pre-	ssure – 1	4" N	PT					W					
eaded gauge port on the right side (rel. to the flow direction) – downstream pr	essure –	1/4" I	NPT					Υ	1				
eaded gauge port on both sides – downstream pressure – 1/4" NPT								Z	1				
Surface finish a)													
ndard surface finish									Х]			
or mechanical polished external surfaces (SF1)									Р	1			
ctropolished internal wetted parts (SF5)									Е				
Special features													
ne										Х			
reased for oxygen										0			
Pipe connection													
mp ferrule ASME BPE											D		
mp ferrule DIN (DIN 32676-A)											F]	
mp ferrule ISO (DIN 32676-B)											Е]	
according to ASME BPE											DI]	
D according to DIN 11866-A (DIN 11850-2)											FI		
according to ISO 1127-1											EI		
Size												L	
08												08	
10												10	
or DN 15												15	
												-00	1
or DN 20												20	
	as											20	

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

