







## SANITARY PRESSURE REDUCING VALVE P130

## DESCRIPTION

The ADCA P130 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.



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.



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: P130.

SIZES: 1/2" to 1"; DN 08 to DN 25.

**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: Horizontal installation recommended. 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	P130
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

<sup>\*</sup> Others on request.

CE MARKING (PED – Europea	
PN16	Category
1/2" to 1" ; DN 08 to DN 25	SEP







				DIM	ENSIONS (1	mm) ASME I	ВРЕ				
SIZE	Kvs *	Α	В	С	D	d1	d2	E	F	н	WEIGHT (kg)
1/2"	1,7	130	36,5	130	80	25	15,75	65	25	9,4	2,9
3/4"	3	130	36,5	130	80	25	15,75	67,5	25	15,75	2,9
1"	3	130	36,5	130	80	25	15,75	72,5	50,5	22,1	3,4

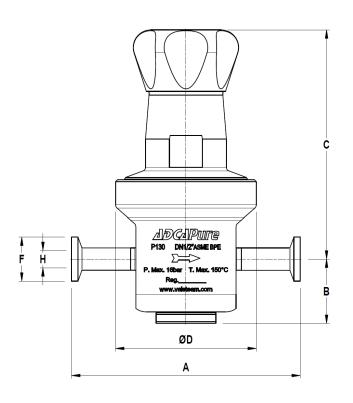
	DIMENSIONS (mm) DIN										
SIZE	Kvs *	Α	В	С	D	d1	d2	E	F	н	WEIGHT (kg)
DN 10	1,7	120	36,5	130	80	25	15,75	65	34	10	2,9
DN 15	3	120	36,5	130	80	25	15,75	67,5	34	16	3
DN 20	3	120	36,5	130	80	25	15,75	67,5	34	20	3,1
DN 25	3	120	38,5	128	80	25	15,75	72,5	50,5	26	3,4

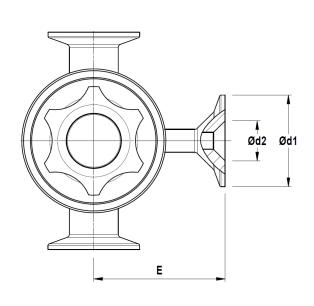
Clamp ferrules DIN 32676 Series A; Tube weld DIN 11866 Series A (DIN 11850 Series 2).

				ı	DIMENSION	IS (mm) ISC	)					
SIZE	Kvs *	Α	В	С	D	d1	d2	E	F	н	WEIGHT (kg)	
DN 08	1,7	120	36,5	130	80	25	15,75	65	25	10,3	2,9	
DN 10	3	120	36,5	130	80	25	15,75	67,5	25	14	3	
DN 15	3	120	36,5	130	80	25	15,75	67,5	50,5	18,1	3,2	
DN 20	3	120	38,5	128	80	25	15,75	72,5	50,5	23.7	3,4	

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

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.





Optional pressure gauge connection.



<sup>\*</sup> Reduced Kvs on request.



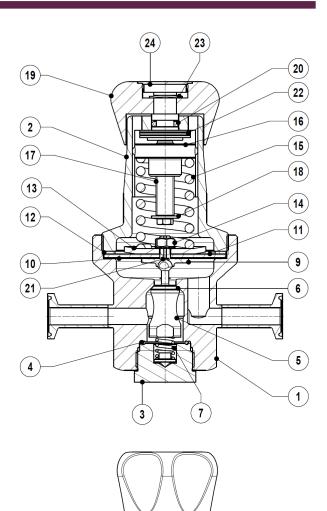


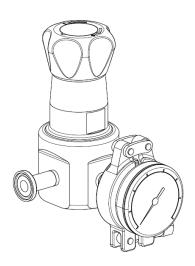
	MATERIA	LS						
POS.	DESIGNATION	MATERIAL						
1	Valve body	AISI 316L / 1.4404						
2	Cover	AISI 316L / 1.4404						
3	Seat cover	AISI 316L / 1.4404						
4	* O-ring	Viton ; EPDM						
5	* Piston	AISI 316L / 1.4404						
6	* Valve head	AISI 316L / 1.4404 ; Viton ; PTFE						
7	* Valve spring	AISI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

<sup>\*</sup> Available spare parts; \*\* If applicable.

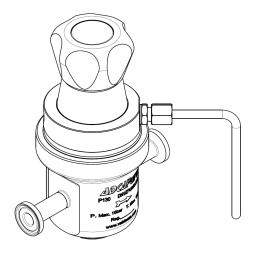
Remarks: FDA / USP Class VI seals certificate on request.

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.



(26)

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



(25)





ORDERING CODES F	P130											
Valve model	P13	1	1	Т	М	Х	ı	Х	Х	Х	DI	08
P130 – AISI 316L / 1.4404 diaphragm sensing regulator	P13											
Outlet spring range		1										
0,2 to 1,5 bar		1										
0,3 to 3 bar		2										
2 to 8 bar		3										
Flow capacity												
Kvs – 0,6			1	1								
Kvs – 1			2	1								
Kvs – 1.7			3	1								
Kvs – 3 (Only applicable to sizes: 3/4", 1", DIN DN 15 to 25, ISO DN 10 to 20)			6	1								
Diaphragm material			_	1								
PTFE (Gylon)				Т	1							
Seat material				<u>.</u>	1							
Metal to metal (non-standard)					М							
EPDM					E	1						
PTFE					T							
					_	-						
FPM / Viton					V							
Relieving							-					
Non-relieving						X	-					
Relieving (only for non-dangerous gases)						R	-					
Relieving with captured vent						L						
Regulating knob and top cap												
Stainless steel							ı					
Plastic							Р	_				
Top cap (adjusting screw sealing)							Т	]				
Gauge port options												
Without gauge ports								X				
Tri-clamp gauge port on the left side (rel. to the flow direction) – downstream press	sure							7				
Tri-clamp gauge port on the right side (rel. to the flow direction) – downstream pres	ssure							6				
Tri-clamp gauge port on both sides – downstream pressure								5				
Threaded gauge port on the left side (rel. to the flow direction) – downstream press	sure – IS	SO 7 I	Rp 1	/4"				4				
Threaded gauge port on the right side (rel. to the flow direction) – downstream pre	ssure –	ISO 7	' Rp	1/4"				3				
Threaded gauge port on both sides – downstream pressure – ISO 7 Rp 1/4"								2	1			
Threaded gauge port on the left side (rel. to the flow direction) – downstream press	sure – 1	/4" NF	PT					w	1			
Threaded gauge port on the right side (rel. to the flow direction) – downstream pre								Υ	1			
Threaded gauge port on both sides – downstream pressure – 1/4" NPT								Z	1			
Surface finish a)									İ			
Standard surface finish									Х			
Mirror mechanical polished external surfaces (SF1)									Р			
Electropolished internal wetted parts (SF5)									E			
Special features												
None										Х	1	
Degreased for oxygen										0	1	
Pipe connection											1	
Clamp ferrule ASME BPE											D	
Clamp ferrule DIN (DIN 32676-A)											F	
Clamp ferrule ISO (DIN 32676-B)											E	
ETO according to ASME BPE											DI	
ETO according to ASME BPE ETO according to DIN 11866-A (DIN 11850-2)											FI	
											_	
ETO according to ISO 1127-1											EI	
Size												00
DN 08												08
DN 10												10
1/2" or DN 15											-	15
3/4" or DN 20												20
1" or DN 25												25
Special valves / Extra												

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

