







SANITARY PRESSURE REDUCING VALVE P130G

DESCRIPTION

The ADCA P130G series direct acting, spring-loaded diaphragm sensing, balanced plug, 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).

Gauge connection on body.

Different soft valves for liquids and gases.

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

argon and other gases or liquids compatible with

the construction.

AVAILABLE

MODELS: P130G.

SIZES: 11/2"; DN 32 and DN 40.

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 -

Installation and maintenance instructions.

ORDER

REQUIREMENTS: Type of fluid.

Maximum operating temperature.

Inlet and outlet pressures.

Flow rate (maximum and minimum).





LIMITING CONDITIONS							
Valve model	P130G						
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)						
PN16	Category					
11/2" ; DN 32 ; DN 40	SEP					







CAPACITIES									
	BPE				DIN				
Valve size	11/2"			N 32 and 4	0				
Kvs	4,2	4,8	6,3	4,2	4,8	6,3	4,2	4,8	6,3

DIMENSIONS (mm) ASME BPE											
SIZE	SIZE A B C		C D d1		d2	E	F	Н	WEIGHT (kg)		
11/2"	148	48	140	100	25	15,75	78,5	50,5	34,8	4,99	

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

	DIMENSIONS (mm) DIN											
SIZE	SIZE A B		С	C D d1 d			E	F	Н	WEIGHT (kg)		
DN 32	133	48	140	100	25	15,75	78,5	50,5	32	4,98		
DN 40	133	48	140	100	25	15,75	78,5	50,5	38	4,94		

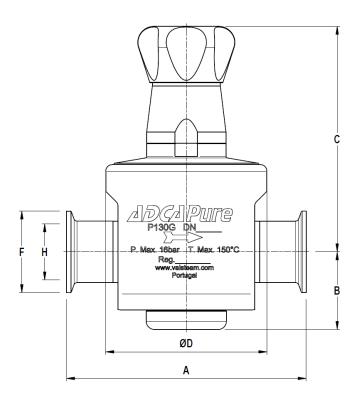
Remarks: Clamp ferrules DIN 32676 Series A; Tube weld DIN 11866 Series A (DIN 11850 Series 2);

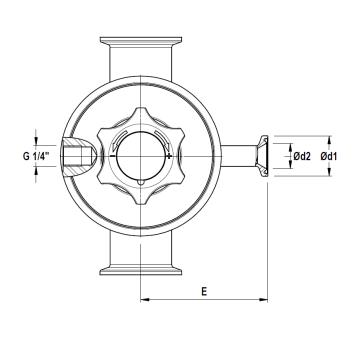
Special versions or non-standard sanitary clamp ferrules are available on request, both for the inlet/outlet and pressure gauge connections; Valves with vinyl handwheel weights less 0,3 kg.

	DIMENSIONS (mm) ISO											
SIZE	Α	В	С	D	d1	d2	E	F	Н	WEIGHT (kg)		
DN 32	133	48	140	100	25	15,75	78,5	64	42,4	5,1		

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 connections; Valves with vinyl handwheel weights less 0,3 kg.





Optional pressure gauge connection.





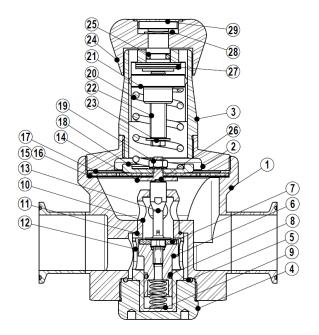


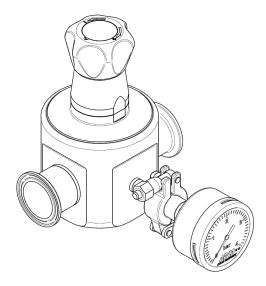
	MATERIA	LS
POS.	DESIGNATION	MATERIAL
1	Valve body	AISI 316L / 1.4404
2	Cover	AISI 316L / 1.4404
3	Spring cover	AISI 316L / 1.4404
4	Seat cover	AISI 316L / 1.4404
5	* O-ring	EPDM
6	* Piston	AISI 316L / 1.4404
7	* Valve head	AISI 316L / 1.4404 ; Viton ; PTFE
8	* O-ring	EPDM
9	* Valve spring	AISI 316 /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



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.





ORDERING CODES P	130G												
Valve model	P3G	1	2	Т	М	Х	ı	Х	Х	Х	DI	32	ı
P130G – AISI 316L / 1.4404 diaphragm sensing regulator	P3G												Г
Outlet spring range													
0,2 to 1,5 bar		1	1										
0,3 to 3 bar		2	1										
2 to 8 bar		3	1										
Flow capacity			1										
Kvs – 4,2			2	1									
Kvs – 4,8			3										
Kvs – 6,3			5										
Diaphragm material													
PTFE (Gylon)				Т									
Seat material													
Metal to metal (non-standard)					M								
EPDM					Е								
PTFE					Т								
FPM / Viton (FDA approval only)					V								
Relieving													
Non-relieving						X							
Relieving (only for non-dangerous gases)						R							
Relieving with captured vent						L							
Regulating knob and top cap								-					
Stainless steel							 -	-					
Plastic							P	-					
Top cap (adjusting screw sealing)							Т	1					
Gauge port options								_					
Without gauge ports	01110							7					
Tri-clamp gauge port on the left side (rel. to the flow direction) – downstream pres Tri-clamp gauge port on the right side (rel. to the flow direction) – downstream pre								6					
	ssure							5					
Tri-clamp gauge port on both sides – downstream pressure Threaded gauge port on the left side (rel. to the flow direction) – downstream pres	ouro IC	·	Dn 1	//"				4					
Threaded gauge port on the right side (ref. to the flow direction) – downstream pres							-	3					
Threaded gauge port on both sides – downstream pressure – ISO 7 Rp 1/4"		100 1	Т	1/4				2					
Threaded gauge port on the left side (rel. to the flow direction) – downstream pres	sure – 1	/4" NI	PT					W					
Threaded gauge port on the right side (rel. to the flow direction) – downstream pre-					-			Y					
Threaded gauge port on both sides – downstream pressure – 1/4" NPT	200010	1/ 1	** '					z					
Surface finish a)								_					
Standard surface finish									Х				
Mirror mechanical polished external surfaces (SF1)				Р									
Electropolished internal wetted parts (SF5)				Е									
Special features													
None										Х			
Degreased for oxygen										0	1		
Pipe connection											L		
Clamp ferrule ASME BPE											D		
Clamp ferrule DIN (DIN 32676-A)											F		
Ciamp ionaic bit (bit ozoroza)											Е		
											DI		
Clamp ferrule ISO (DIN 32676-B)													
Clamp ferrule ISO (DIN 32676-B) ETO according to ASME BPE ETO according to DIN 11866-A (DIN 11850-2)											FI	ļ	
Clamp ferrule ISO (DIN 32676-B) ETO according to ASME BPE											EI		
Clamp ferrule ISO (DIN 32676-B) ETO according to ASME BPE ETO according to DIN 11866-A (DIN 11850-2)													
Clamp ferrule ISO (DIN 32676-B) ETO according to ASME BPE ETO according to DIN 11866-A (DIN 11850-2) ETO according to ISO 1127-1 Size												32	
Clamp ferrule ISO (DIN 32676-B) ETO according to ASME BPE ETO according to DIN 11866-A (DIN 11850-2) ETO according to ISO 1127-1												32 40	

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

