

**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.

The valve is available in a dome-loaded version.

**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).
- Gauge connection on body.
- Different soft valves for liquids and gases.
- Dome-loaded version.

**USE:**

Clean air, nitrogen, carbon dioxide, oxygen, argon and other gases or liquids compatible with the construction.

**AVAILABLE MODELS:**

P130G.

**SIZES:**

1 1/2"; DN 32 to DN 40.

**REGULATING RANGES:**

0,2 to 1,5 bar; 0,3 to 3 bar; 2 to 8 bar.

**CONNECTIONS:**

ASME BPE, DIN and ISO clamp ferrules or tube weld (ETO) ends.  
Others on request.

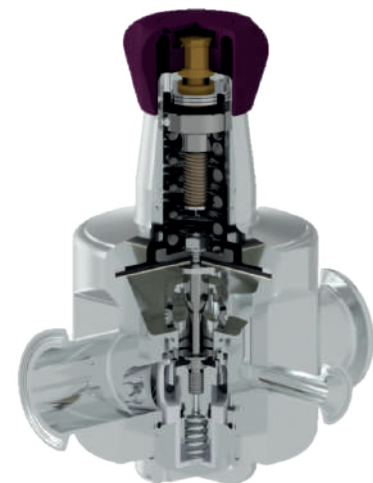
**PACKAGING:**

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:**

Horizontal installation recommended.  
See IMI – Installation and maintenance instructions.



LIMITING CONDITIONS	
<b>Valve model</b>	<b>P130G</b>
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 1/2" – DN 32 to 40	SEP

**FLOW RATE COEFFICIENTS (m<sup>3</sup>/h)**

SIZE	ASME BPE			DIN			ISO		
	11/2"			DN 32 and DN 40			DN 32		
Kvs	4,2	4,8	6,3	4,2	4,8	6,3	4,2	4,8	6,3

**DIMENSIONS (mm) ASME BPE**

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

\* Valves with nylon adjustment knob weigh 0,3 kg less.

**DIMENSIONS (mm) DIN**

SIZE	A	B	C	D	d1	d2	E	F	H	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

\* Valves with nylon adjustment knob weigh 0,3 kg less.

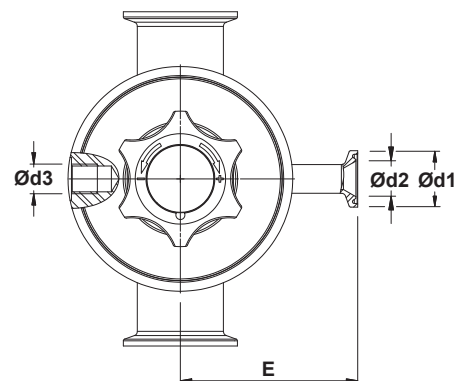
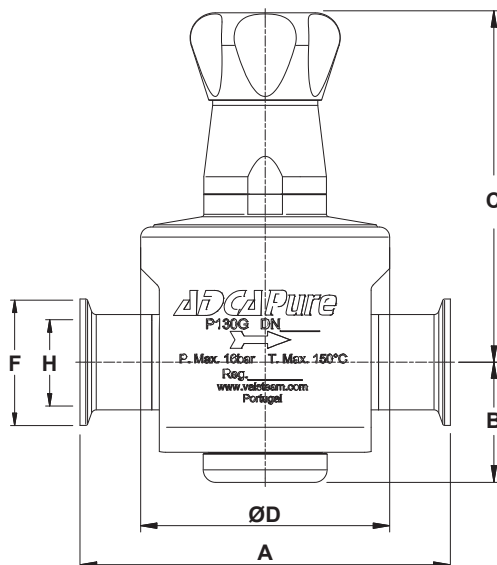
Remarks: Clamp ferrules according to DIN 32676-A; Tube weld (ETO) according to DIN 11866-A (DIN 11850-2).

**DIMENSIONS (mm) ISO**

SIZE	A	B	C	D	d1	d2	E	F	H	WEIGHT (kg) *
DN 32	133	48	140	100	25	15,75	78,5	64	42,4	5,1

\* 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.

MATERIALS

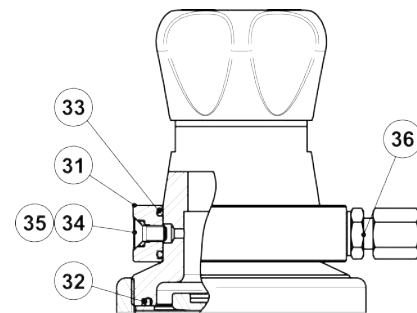
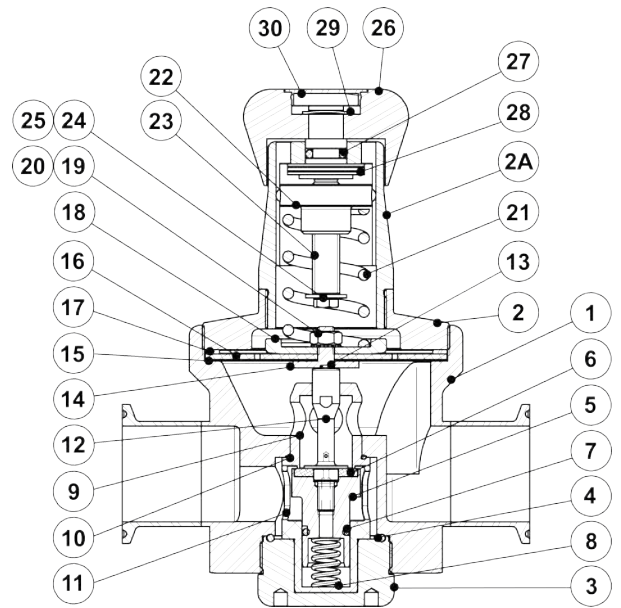
POS. N°	DESIGNATION	MATERIAL
1	Valve body	AISI 316L / 1.4404
2	Cover	AISI 316L / 1.4404
2A	Spring cover	AISI 316L / 1.4404
3	Bottom cover	AISI 316L / 1.4404
4	* O-ring	EPDM
5	* Piston	AISI 316L / 1.4404
6	* Valve head	AISI 316L / 1.4404, Viton or PTFE
7	* O-ring	EPDM
8	* Valve spring	AISI 316 / 1.4401 electropolished
9	* Seat	AISI 316L / 1.4404
10	* O-ring	EPDM
11	* Guide	AISI 316L / 1.4404
12	* Stem	AISI 316L / 1.4404
13	* O-ring a)	EPDM
14	Pusher disk	AISI 316L / 1.4404
15	* Lower diaphragm	PTFE (Gylon)
16	* Upper diaphragm	EPDM
17	Washer	AISI 304 / 1.4301
18	Plate	AISI 304 / 1.4301
19	Nut	Stainless steel A2-70
20	* Serrated washer	AISI 304 / 1.4301
21	* Adjustment spring	AISI 302 / 1.4300
22	Spring guide	AISI 316 / 1.4401
23	Adjustment screw	Brass
24	Washer	Stainless steel A2-70
25	Bolt	Stainless steel A2-70
26	Adjustment knob	AISI 316L / 1.4404 or Nylon
27	O-ring	NBR
28	Bearing	Corrosion resistant steel
29	Shaft ring	Stainless steel
30	Cover nut	Plastic
31	Leakage line/Captured vent ring	AISI 316 / 1.4401
32	* O-ring	EPDM
33	O-ring	NBR
34	Bolt	AISI 304 / 1.4301
35	O-ring	Viton
36	Compression fitting	AISI 304 / 1.4301

\* Available spare parts.

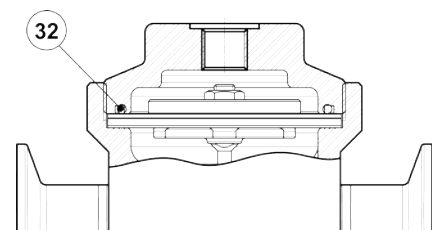
a) Only for versions with self-relieving option.

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

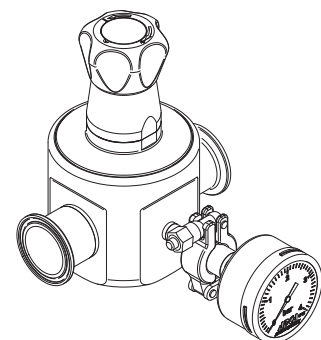
All valves have a serial number. In case of non-standard valves, this number must be supplied if spare parts are ordered.



Leakage line / Captured vent option



Dome-loaded top



Optional pressure gauge connection.

