



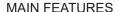


## SANITARY PRESSURE REDUCING VALVES P130L

## **DESCRIPTION**

The ADCAPure P130L is a series of low flow, direct acting, diaphragm sensing pressure reducing valves. These regulators, available with spring or dome-loading, 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.

Specifically designed for the high purity gas systems found in the pharmaceutical, cosmetic, fine chemical and food & beverage processes.



Compact design.

Non-rising adjustment knob.

FDA / USP Class VI compliant seals.

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



Internal wetted parts: ≤ 0,51 µm Ra – SF1.

External: ≤ 0,76 µm Ra – SF3.

Other surface conditions see TIS.GIA - General information

ADCAPure.

Ultrasonic cleaning.

OPTIONS: Self relieving.

Leakage line connection.

Panel mounting. Dome-loading.

Top cap (adjustment screw with cover).

Gauge connection on body.

Wall mounting.

Different soft sealings for liquids and gases.

Degreased for oxygen application.

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.

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 is recommended.

See IMI - Installation and maintenance

instructions.





CE MARKING – GROUP 2	
(PED – European Directive)	

PN 16	Category
1/2" to 3/4" – DN 08 to 20	SEP

LIMITING CONDITIONS *	
Maximum allowable pressure	16 bar
Maximum upstream pressure	16 bar
Maximum downstream pressure	8 bar
Minimum downstream pressure	0,2 bar
Maximum operating temperature	150 °C

\* Other limits on request. Maximum operating conditions may be limited by the valve end connections due to normative restrictions.

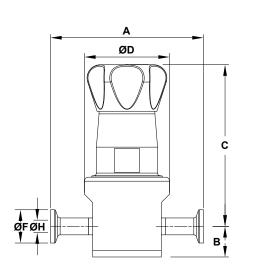


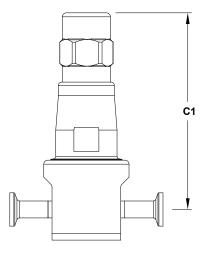




			FLC	W RATE COE	FFICIENTS (m	1³/h)					
SIZE		ASME BPE			DIN			ISO			
SIZE		1/2" to 3/4"			DN 10 to 20		DN 08 to 15				
Kvs	0,06	0,19	0,25	0,06	0,19	0,25	0,06	0,19	0,25		

	OPTIONS	
LEAKAGE LINE CONNECTION	PANEL MOUNTING	DOME-LOADING
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TOP CAP	GAUGE CONNECTION	WALL MOUNTING
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**DIMENSIONS** 

ØD

d4

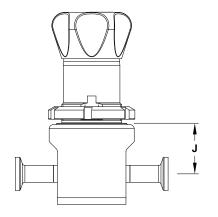
C2

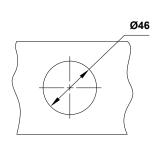
Optional top cap

Optional dome-loading





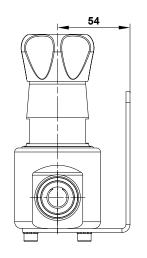


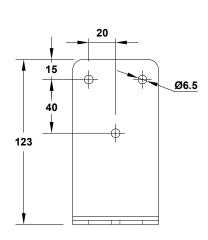


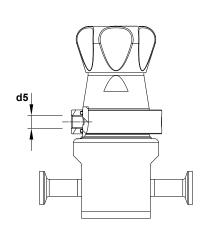
Ød1
Ød2
E
d3

Optional panel mounting

Optional gauge connection







Optional wall mounting

Optional leakage line connection

					ı	DIMENS	IONS -	ASME B	PE (mm	1)						
SIZE	Α	В	С	C1	C2	ØD	Ød1	Ød2	d3	d4	d5	E	ØF	ØН	J	WGT. (kg) *
1/2"	115	23	120	147,6	55,6	64	25	15,75	1/4"	1/4"	1/8"	65	25	9,4	38,1	2,13
3/4"	115	23	120	147,6	55,6	64	25	15,75	1/4"	1/4"	1/8"	65	25	15,8	38,1	2,14

<sup>\*</sup> Valves with nylon adjustment knob weigh 0,3 kg less.

						DIME	ENSION	S – DIN	(mm)							
SIZE	Α	В	С	C1	C2	ØD	Ød1	Ød2	d3	d4	d5	E	ØF	ØН	J	WGT. (kg) *
DN 10	115	23	120	147,6	55,6	64	25	15,75	1/4"	1/4"	1/8"	65	34	10	38,1	2,11
DN 15	115	23	120	147,6	55,6	64	25	15,75	1/4"	1/4"	1/8"	65	34	16	38,1	2,13
DN 20	115	23	120	147,6	55,6	64	25	15,75	1/4"	1/4"	1/8"	65	34	20	38,1	2,15

<sup>\*</sup> 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).

						DIME	ENSION	S – ISO	(mm)							
SIZE	Α	В	С	C1	C2	ØD	Ød1	Ød2	d3	d4	d5	E	ØF	ØН	J	WGT. (kg) *
DN 08	115	23	120	147,6	55,6	64	25	15,75	1/4"	1/4"	1/8"	65	25	10,3	38,1	2,11
DN 10	115	23	120	147,6	55,6	64	25	15,75	1/4"	1/4"	1/8"	65	25	14	38,1	2,12
DN 15	115	23	120	147,6	55,6	64	25	15,75	1/4"	1/4"	1/8"	65	50,5	18,1	38,1	2,13

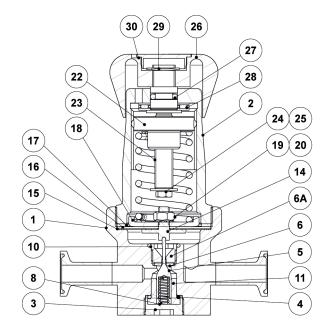
<sup>\*</sup> Valves with nylon adjustment knob weigh 0,3 kg less.

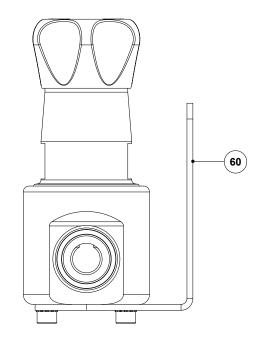
Remarks: Clamp ferrules according to DIN 32676-B. Tube weld (ETO) according to DIN 11866-B (ISO 1127).



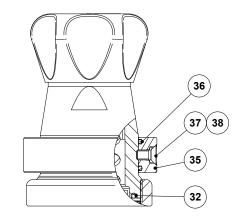


## **MATERIALS**

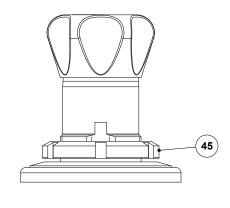




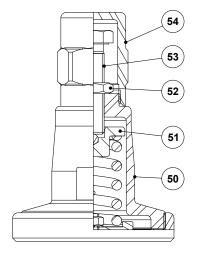
Optional wall mounting



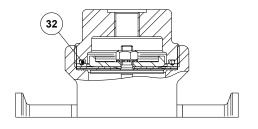
Optional leakage line connection



Optional panel mounting



Optional top cap



Optional dome-loading







	MATERIA	ALS
POS. Nº	DESIGNATION	MATERIAL
1	Valve body	AISI 316L / 1.4404
2	Cover	AISI 316L / 1.4404
3	Bottom cover	AISI 316L / 1.4404
4	* O-ring	** EPDM
5	* Plug	AISI 316L / 1.4404
6	* Valve seat seal	** EPDM; PTFE
6A	Seat retainer	AISI 316L / 1.4404
8	* Valve spring	AISI 316 / 1.4401 electropolished
9	Valve seat	AISI 316L / 1.4404
10	* O-ring	** EPDM
11	* Guide	** PTFE
13	* O-ring a)	** EPDM
14	* Pusher disc	AISI 316L / 1.4404
15	* Lower diaphragm	PTFE (Gylon)
16	* Upper diaphragm	EPDM
17	Washer	AISI 304 / 1.4301
18	* Plate	AISI 316 / 1.4401
19	* Nut	Stainless steel A2-70
20	* Washer	Stainless steel A2
21	* Adjustment spring	AISI 302 / 1.4300
22	Spring guide	AISI 316 / 1.4401
23	Adjustment screw	Brass
24	Washer	Stainless steel A2
25	Bolt	Stainless steel A2-70
26	Adjustment knob	AISI 316L / 1.4404; Nylon
27	O-ring	NBR
28	Bearing	Corrosion resistant steel
29	Shaft ring	Stainless steel
30	Cover nut	Plastic
32	* O-ring	EPDM
35	Leakage line ring	AISI 316 / 1.4401
36	O-ring	NBR
37	Bolt	AISI 304 / 1.4301
38	O-ring	FPM
45	Lock nut	CF8M / 1.4408
50	Cover	AISI 316L / 1.4404
51	Spring guide	Brass
52	Lock nut	Stainless steel A2-70
53	Adjustment screw	Stainless steel A2-70
54	Тор сар	AISI 316L / 1.4404
60	Support plate	AISI 316L / 1.4404

<sup>\*</sup> Available spare parts. \*\* Others on request.

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

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



a) Only for valve with self relieving option.





ORDERING CODES P130	L										
Valve model P3L	1	3	Т	Т	Х	ī	Х	X	Х	D	08
30L – AISI 316L / 1.4404 diaphragm sensing pressure reducing valve P3L											
Regulating range											
	1										
	2										
	3										
	Ā										
Flow rate coefficient	_										
riow rate coefficient		3									
· · · · · · · · · · · · · · · · · · ·	-+	_									
s 0,19	$\rightarrow$	6									
s 0,25		7									
Diaphragm TEF (O. Low)			_	-							
FE (Gylon)											
PDM (non-standard)			Е								
Valve sealing											
PDM				Е							
FE				Т							
Relieving and leakage line connection											
on-relieving <b>b)</b>					Х						
on-relieving with leakage line connection – ISO 228 G 1/8"					N						
on-relieving with leakage line connection – 1/8" NPT					С						
elieving (only for non-dangerous gases)					R						
elieving with leakage line connection – ISO 228 G 1/8"					L						
elieving with leakage line connection – 1/8" NPT					М						
Adjustment knob and top cap											
ainless steel adjustment knob						ı	1				
vlon adjustment knob						Р	1				
p cap (adjustment screw with cover)						Т	1				
ome-loading – ISO 228 G 1/4" b)						X	1				
ome-loading – 1/4" NPT <b>b)</b>						C	1				
Gauge connections							ł				
ithout gauge connections							Х	1			
-clamp gauge connections on the left side (relative to flow direction) – downstream pr	race	ure					7	1			
							6	┨			
-clamp gauge connection on the right side (relative to flow direction) – downstream p -clamp gauge connections on both sides – downstream pressure	pres	Sure					<del>-</del>	-			
			100		C 411	"	5	-			
readed gauge connection on the left side (relative to flow direction) – downstream p							4	-			
readed gauge connection on the right side (relative to flow direction) – downstream		ssure	- 15	0 22	8 G 1	/4"	3	-			
preaded gauge connections on both sides – downstream pressure – ISO 228 G 1/4"			4/4				2	-			
readed gauge connection on the left side (relative to flow direction) – downstream p							W	-			
readed gauge connection on the right side (relative to flow direction) – downstream	pres	ssure	<u> </u>	4" NF	T		Υ	1			
readed gauge connections on both sides – downstream pressure – 1/4" NPT							Z				
Surface finish c)											
andard surface finish								X			
rror mechanical polished external surfaces (SF1)								P			
ectropolished internal wetted parts (SF5)								E			
Special features											
ne									Х		
egreased for oxygen									0	]	
Pipe connection										1	
<u> </u>										D	1
amp terrule ASME BPE										F	1
amp ferrule ASME BPE amp ferrule DIN (DIN 32676-A)										E	1
amp ferrule DIN (DIN 32676-A)										DI	1
amp ferrule DIN (DIN 32676-A) amp ferrule ISO (DIN 32676-B)										FI	1
amp ferrule DIN (DIN 32676-A) amp ferrule ISO (DIN 32676-B) be weld (ETO) according to ASME BPE											
amp ferrule DIN (DIN 32676-A) amp ferrule ISO (DIN 32676-B) be weld (ETO) according to ASME BPE be weld (ETO) according to DIN 11866-A (DIN 11850-2)							-			_	
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amp ferrule DIN (DIN 32676-A) amp ferrule ISO (DIN 32676-B) be weld (ETO) according to ASME BPE be weld (ETO) according to DIN 11866-A (DIN 11850-2) be weld (ETO) according to DIN 11866-B (ISO 1127)  Size  N 08 N 10										_	10
amp ferrule DIN (DIN 32676-A) amp ferrule ISO (DIN 32676-B) be weld (ETO) according to ASME BPE be weld (ETO) according to DIN 11866-A (DIN 11850-2) be weld (ETO) according to DIN 11866-B (ISO 1127)  Size N 08										_	-

Full description or additional codes have to be added in case of non-standard combination | E a) The loading control pressure can be up to a maximum of 1,2 bar above the required downstream pressure. b) Mandatory in case of dome-loading. c) Consult TIS.GIA – General information ADCAPure – for further details and other surface finish options.



