







SANITARY PRESSURE REDUCING VALVES P130K

DESCRIPTION

The ADCAPure P130K is a series of 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: P130K.

SIZES: 1/2" and 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 (PED – Europ	
PN 16	Category
1/2" and 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.



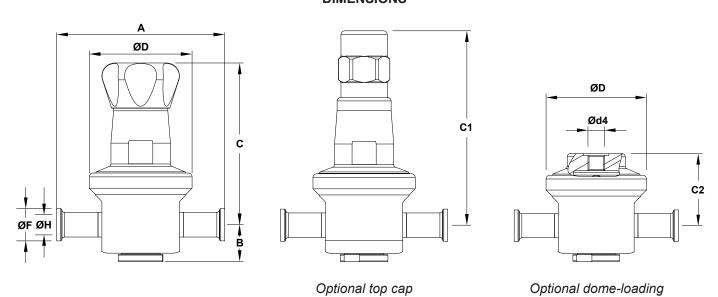




	FLOW RATE COEFFICIENTS (m³/h)									
SIZE	ASME	BPE	D	IN	IS	60				
SIZE	1/2" ar	nd 3/4"	DN 10	to 20	DN 08 to 15					
Kvs	0,7	1,3	0,7	1,3	0,7	1,3				

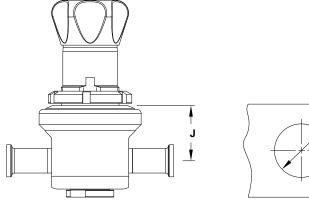
	OPTIONS	
LEAKAGE LINE CONNECTION	PANEL MOUNTING	DOME-LOADING
PIM. Last IC. In 20 Control 1 May - C. Reg. Materials of Period	PISK DAT U. S. C.	AD CAPUTE PISM LOST TO: Fin _ Pism of Time_ 'C Res _ Res
TOP CAP	GAUGE CONNECTION	WALL MOUNTING
PLIK LIV TO. TO. F. TO. CHET VO. C. Miller Vo. C.	bar and	PHONE LAN TE. KYL. P. STAN TERM TO THE STAN TERM TERM TERM TERM TERM TERM TERM TERM

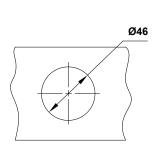
DIMENSIONS











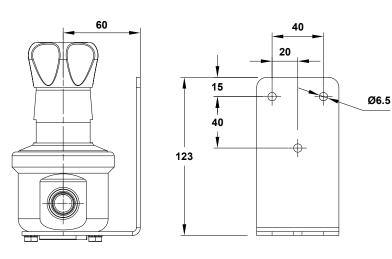
E Ød1

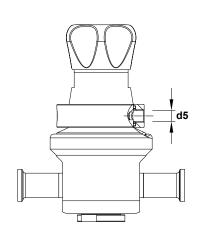
Ød2

Ød3

Optional panel mounting

Optional gauge connection





Optional wall mounting

Optional leakage line connection

	DIMENSIONS – ASME BPE (mm)															
SIZE	Α	В	С	C1	C2	ØD	Ød1	Ød2	d3	d4	d5	E	ØF	ØН	J	WGT. (kg) *
1/2"	130	28	125	151	57,1	80	25	15,75	1/4"	1/4"	1/8"	66,5	25	9,4	43,1	2,4
3/4"	130	28	125	151	57,1	80	25	15,75	1/4"	1/4"	1/8"	66,5	25	15,8	43,1	2,4

^{*} 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	120	28	125	151	57,1	80	25	15,75	1/4"	1/4"	1/8"	66,5	34	10	43,1	2,5
DN 15	120	28	125	151	57,1	80	25	15,75	1/4"	1/4"	1/8"	66,5	34	16	43,1	2,4
DN 20	120	28	125	151	57,1	80	25	15,75	1/4"	1/4"	1/8"	66,5	34	20	43,1	2,6

^{*} 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 – ISO (mm)															
SIZE	Α	В	С	C1	C2	ØD	Ød1	Ød2	d3	d4	d5	E	ØF	ØН	J	WGT. (kg) *
DN 08	120	28	125	151	57,1	80	25	15,75	1/4"	1/4"	1/8"	66,5	25	10,3	43,1	2,5
DN 10	120	28	125	151	57,1	80	25	15,75	1/4"	1/4"	1/8"	66,5	25	14	43,1	2,5
DN 15	120	28	125	151	57,1	80	25	15,75	1/4"	1/4"	1/8"	66,5	50,5	18,1	43,1	2,3

^{*} Valves with nylon adjustment knob weigh 0,3 kg less.

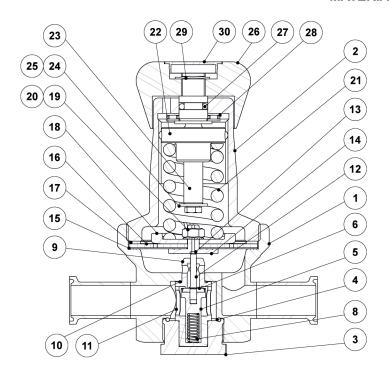
Remarks: Clamp ferrules according to DIN 32676-B. Tube weld (ETO) according to DIN 11866-B (ISO 1127).

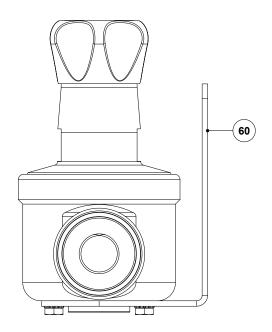




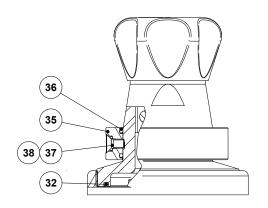


MATERIALS

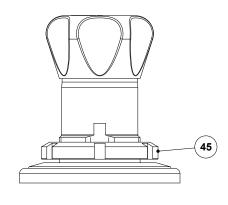




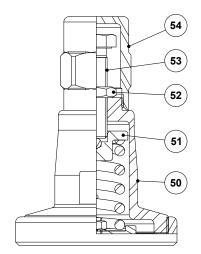
Optional wall mounting



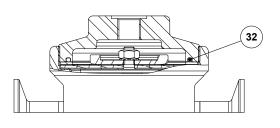
Optional leakage line connection



Optional panel mounting



Optional top cap



Optional dome-loading

We reserve the right to change the design and material of this product without notice.





	MATERI	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	* Piston	AISI 316L / 1.4404
6	* Valve seal	** EPDM; PTFE; FPM
8	* Valve spring	AISI 316 / 1.4401 electropolished
9	* Seat	AISI 316L / 1.4404
10	* O-ring	** EPDM
11	* Guide	PEEK
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 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

^{*} Available spare parts. ** Others on request.

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.



a) Only for valve with self-relieving option.





ORDERING CODES	P130F	(
Valve model	P3K	1	2	Т	М	Х	ı	Х	Х	Х	DI	08	П
P130K – AISI 316L / 1.4404 diaphragm sensing pressure reducing valve	P3K												Г
Regulating range]											
0,2 to 1,5 bar		1]										
0,3 to 3 bar		2]										
2 to 8 bar		3											
0,2 to 8 bar (dome-loading) a)		Α											
Flow rate coefficient													
Kvs 0,7			3										
⟨vs 1,3			5										
Diaphragm]								
PTFE (Gylon)				Т									
EPDM (non-standard)				E									
Valve sealing													
Metal to metal (non-standard)					M	ļ							
EPDM					E								
PTFE					T]							
FPM / Viton (USP Class VI on request)					V								
Relieving and leakage line connection						L_							
Non-relieving b)						X							
Non-relieving with leakage line connection – ISO 228 G 1/8"						N							
Non-relieving with leakage line connection – 1/8" NPT						С							
Relieving (only for non-dangerous gases)						R							
Relieving with leakage line connection – ISO 228 G 1/8"						L							
Relieving with leakage line connection – 1/8" NPT						M							
Adjustment knob and top cap													
Stainless steel adjustment knob							I						
Nylon adjustment knob							Р	-					
Top cap (adjustment screw with cover)							Т						
Dome-loading – ISO 228 G 1/4" b)							X						
Dome-loading – 1/4" NPT b)							С	-					
Gauge connections									-				
Without gauge connections								X	-				
Tri-clamp gauge connection on the left side (relative to flow direction) – downstre								7	-				
Tri-clamp gauge connection on the right side (relative to flow direction) – downst	ream p	oress	ure					6	-				
Tri-clamp gauge connections on both sides – downstream pressure	2000 0			100	220 C	1/4"		5	-				
Threaded gauge connection on the left side (relative to flow direction) – downstr								4	-				
Threaded gauge connection on the right side (relative to flow direction) – downs Threaded gauge connections on both sides – downstream pressure – ISO 228 (press	sure -	- 150	228	G 1/4		3	-				
0 0			ro	1/4" 1	NDT			2 W	-				
Threaded gauge connection on the left side (relative to flow direction) – downstr Threaded gauge connection on the right side (relative to flow direction) – downs								Y	ł				
Threaded gauge connection on the right side (relative to flow direction) – downs Threaded gauge connections on both sides – downstream pressure – 1/4" NPT	lieaiii	press	sure -	- 1/4	INF			Z	-				
Surface finish c) Standard surface finish									X				
Mirror mechanical polished external surfaces (SF1)									P				
Electropolished internal wetted parts (SF5)									E				
Special features													
None										Х			
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		
Tube weld (ETO) according to ASME BPE											DI		
Tube weld (ETO) according to ASME BFE Tube weld (ETO) according to DIN 11866-A (DIN 11850-2)											FI		
Fube weld (ETO) according to DIN 11866-B (ISO 1127)											EI		
Size													
DN 08												08	1
DN 10				-								10	1
1/2" or DN 15												15	1
8/4" or DN 20												20	1
Special construction / Addition	onal o	ntion	S									20	
Full description or additional codes have to be added in case of non-standard co													\vdash
uii description or additional codes have to be added in case of non-standard co	פווומוווע	เเปม											

- 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.

