







## SANITARY PRESSURE REDUCING VALVES P130H

## **DESCRIPTION**

The ADCAPure P130H is a series of direct acting, diaphragm sensing, balanced plug 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:  $\leq 0.76 \, \mu m \, Ra - SF3$ .

Other surface conditions see TIS.GIA – General information

ADCAPure.

Ultrasonic cleaning.

OPTIONS: Leakage line connection.

Dome-loading.

Top cap (adjustment screw with cover).

Gauge connection on body.

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: P130H.

SIZES: 1"; DN 25.

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.





	G – GROUP 2 ean Directive)
PN 16	Category
1" – DN 25	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.





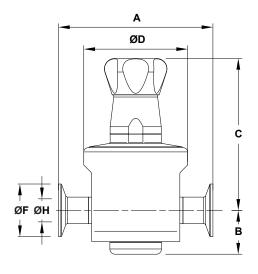


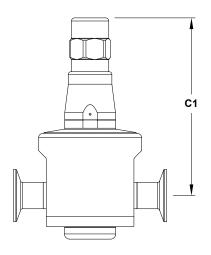
		FLO	W RATE COEFFICIE	NTS (m³/h)		
SIZE ASME BPE DIN ISO	6O					
SIZE	1	"	DN	25	ISO DN 25 3,2 4,2	
Kvs	3,2	4,2	3,2	4,2	3,2	DN 25

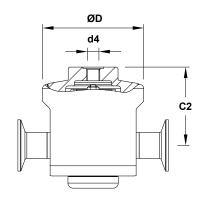
	ОРТ	IONS	
LEAKAGE LINE CONNECTION	DOME-LOADING	TOP CAP	GAUGE CONNECTION
P. Max. 160ar T. Max. 1507C www. postanar.com	Place Dure Place T. Max, 160'C www.bisham.com Portugal	PH3SH DN. P. Max 160ar T. Max 150'C were Supported to Portugal	Day And





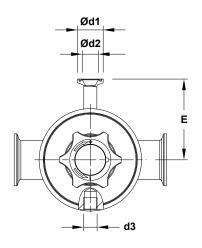


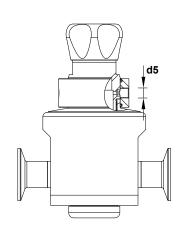




Optional top cap

Optional dome-loading





Optional gauge connection

Optional leakage line connection

					DIN	MENSION	IS – ASI	/IE BPE (	mm)						
SIZE	Α	В	С	C1	C2	ØD	Ød1	Ød2	d3	d4	d5	E	ØF	ØН	WGT. (kg) *
1"	148	42	146	171,6	77,1	100	25	15,75	1/4"	1/4"	1/8"	78,5	50,4	22,1	5,14

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

						DIMENS	SIONS -	DIN (mm	)						
SIZE	Α	В	С	C1	C2	ØD	Ød1	Ød2	d3	d4	d5	E	ØF	ØН	WGT. (kg) *
DN 25	135	42	146	171,6	77,1	100	25	15,75	1/4"	1/4"	1/8"	78,5	50,5	26	5,17

<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).

						DIMENS	SIONS -	ISO (mm	)						
SIZE	Α	В	С	C1	C2	ØD	Ød1	Ød2	d3	d4	d5	E	ØF	ØН	WGT. (kg) *
DN 25	135	46	142	171,6	73,1	100	25	15,75	1/4"	1/4"	1/8"	78,5	50,5	29,7	5,16

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

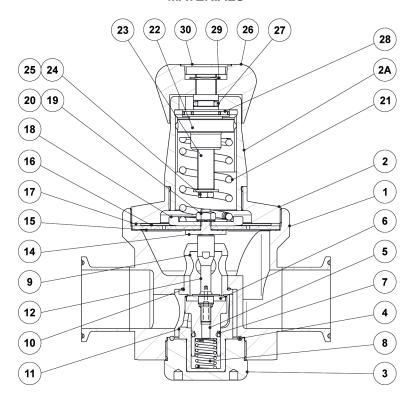
Remarks: Clamp ferrules according to DIN 32676-B. Tube weld (ETO) according to DIN 11866-B (ISO 1127).

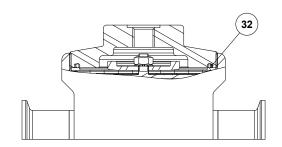




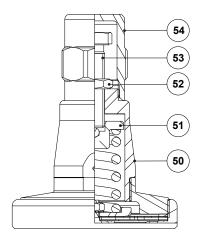


## **MATERIALS**

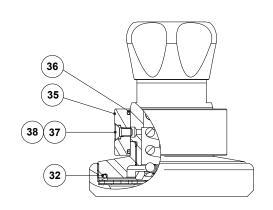




Optional dome-loading



Optional top cap



Optional leakage line connection





	MATERIA	ALS
POS. Nº	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 seal	** EPDM; PTFE; FPM
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
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	* 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
50	Cover	AISI 316L / 1.4404
51	Spring guide	Brass
52	Lock nut	Stainless steel A2
53	Adjustment screw	Stainless steel A2-70
54	Тор сар	AISI 316L / 1.4404

<sup>\*</sup> 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.





	S P1301											
Valve model	P3H	1	2	Т	M	Х	ı	Х	Х	Х	DI	25
P130H – AISI 316L / 1.4404 diaphragm sensing pressure reducing valve	P3H											
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 3,2			1									
Kvs 4,2			2									
Diaphragm												
PTFE (Gylon)				Т								
EPDM (non-standard)				Е								
Valve sealing												
Metal to metal (non-standard)					M							
EPDM					Е							
PTFE					Т							
FPM / Viton (USP Class VI on request)					٧							
Leakage line connection												
Without leakage line connection						Х						
Leakage line connection – ISO 228 G 1/8"						N						
Leakage line connection – 1/8" NPT						С						
Adjustment knob and top cap												
Stainless steel adjustment knob							Ι	1				
Nylon adjustment knob							Р	]				
Top cap (adjustment screw with cover)							Т	1				
Dome-loading – ISO 228 G 1/4" b)							Х	]				
Dome-loading – 1/4" NPT <b>b)</b>							С	1				
Gauge connections								1				
Without gauge connections								Х				
Tri-clamp gauge connection on the left side (relative to flow direction) – downs	tream pr	essur	e e					7				
Tri-clamp gauge connection on the right side (relative to flow direction) – dowr	nstream p	oressi	ure					6				
Tri-clamp gauge connections on both sides – downstream pressure								5				
Threaded gauge connection on the left side (relative to flow direction) – downs	stream p	ressu	re – I	SO 2	228 G	1/4"		4				
Threaded gauge connection on the right side (relative to flow direction) – down								3				
Threaded gauge connections on both sides – downstream pressure – ISO 228								2				
Threaded gauge connection on the left side (relative to flow direction) – downs		essu	re –	1/4" [	NPT			w				
Threaded gauge connection on the right side (relative to flow direction) – down								Υ				
Threaded gauge connections on both sides – downstream pressure – 1/4" NP								Z				
Surface finish c)												
Standard surface finish									Х	1		
Mirror mechanical polished external surfaces (SF1)									Р	ĺ		
Electropolished internal wetted parts (SF5)									Е			
Special features												
None										Х		
Degreased for oxygen										0	1	
Pipe connection												
Clamp ferrule ASME BPE											D	1
Clamp ferrule DIN (DIN 32676-A)											F	
Clamp ferrule ISO (DIN 32676-B)											E	
Tube weld (ETO) according to ASME BPE											DI	1
Tube weld (ETO) according to ASME BI E  Tube weld (ETO) according to DIN 11866-A (DIN 11850-2)											FI	
Tube weld (ETO) according to DIN 11866-B (ISO 1127)											EI	
Size												-
1" or DN 25												25
I UI DIN ZU												25
Special construction / Addi	itional o	ntion	9									

- 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.

