





SANITARY PRESSURE REDUCING VALVE P130H

DESCRIPTION

The ADCA P130H 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.

Non-rising adjustment knob.



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: 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 recommended.

See IMI - Installation and maintenance

instructions.





LIMITING CONDITIONS	
Valve model	P130H
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 (PED – Europea	
PN 16	Category
1" – DN 25	SEP







		FLOW	RATE COEFFICIEN	TS (m³/h)		
	ASME	ASME BPE DIN				0
SIZE	1	"	DN	25	DN	25
Kvs	3,2	4,2	3,2	4,2	3,2	4,2

DIMENSIONS (mm) ASME BPE											
SIZE	Α	В	С	D	d1	d2	d3	E	F	Н	WEIGHT (kg) *
1"	148	42	146	100	25	15,75	1/4"	78,5	50,5	22,1	5,14

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

DIMENSIONS (mm) DIN											
SIZE	Α	В	С	D	d1	d2	d3	E	F	Н	WEIGHT (kg) *
DN 25	135	42	146	100	25	15,75	1/4"	78,5	50,5	26	5,17

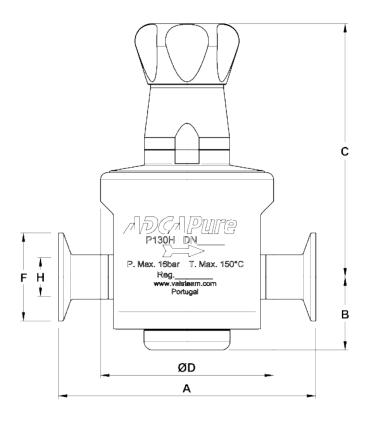
^{*} Valves with nylon adjustment knob weigh 0,3 kg less.

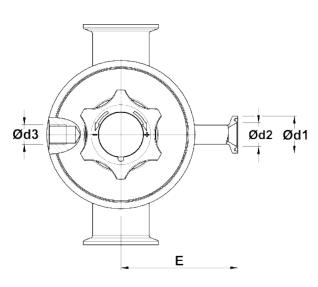
Remarks: Clamp ferrules according to DIN 32676-A; Tube weld (ETO) according to DIN 11866-A (DIN 11850-2).

DIMENSIONS (mm) ISO											
SIZE	Α	В	С	D	d1	d2	d3	E	F	Н	WEIGHT (kg) *
DN 25	135	46	142	100	25	15,75	1/4"	78,5	50,5	29,7	5,16

^{*} 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.





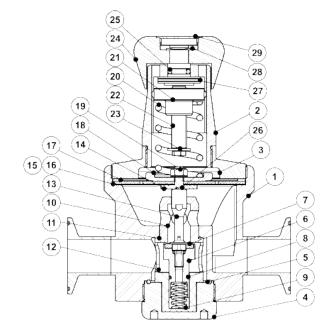


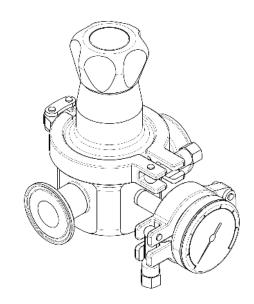
	MATERIA	LS
POS.	DESIGNATION	MATERIAL
1	Valve body	AISI 316L / 1.4404
2	Cover	AISI 316L / 1.4404
3	Spring cover	AISI 316L / 1.4404
4	Seat cover	AISI 316L / 1.4404
5	* O-ring	EPDM
6	* Piston	AISI 316L / 1.4404
7	* Valve head	AISI 316L / 1.4404; Viton; PTFE
8	* O-ring	EPDM
9	* Valve spring	AISI 316 / 1.4401 electropolished
10	* Seat	AISI 316L / 1.4404
11	* O-ring	EPDM
12	* Guide	TFM 1600
13	* Stem	AISI 316L / 1.4404
14	Pusher disc	AISI 316L / 1.4404
15	* Lower diaphragm	PTFE (Gylon)
16	* Upper diphragm	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 316 / 1.4401
22	Adjustment screw	Brass
23	Retaining washer	Stainless steel A2-70
24	Adjustment knob	AISI 316L / 1.4404
24	Adjustifierit kriob	Nylon
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	S P130H											
Valve model	РЗН	1	2	Т	М	Х	ı	Х	Х	Х	DI	25
P130H – AISI 316L / 1.4404 diaphragm sensing pressure reducing valve	РЗН											
Regulating range												
0,2 to 1,5 bar		1										
0,3 to 3 bar		2										
2 to 8 bar		3										
Flow rate coefficient												
Kvs 3.2			1	1								
Kvs 4,2			2	1								
Diaphragm			_									
PTFE (Gylon)				Т	1							
EPDM (non-standard)				E	1							
Seat material				_	1							
Metal to metal (non-standard)					М	1						
EPDM					E	1						
PTFE				-	T	1						
FPM / Viton (FDA approval only)					v	1						
Relieving						1						
Non-relieving						X						
<u> </u>						R						
Relieving (only for non-dangerous gases)						L						
Relieving with captured vent						<u> </u>	ĺ					
Adjustment knob and top cap								-				
Stainless steel adjustment knob							1	-				
Nylon adjustment knob							P	-				
Top cap (adjustment screw with cover)							Т					
Gauge port options								_	-			
Without gauge ports Tri-clamp gauge port on the left side (rel. to the flow direction) – downstream pr	occuro							7	1			
Tri-clamp gauge port on the left side (ref. to the flow direction) – downstream p								6	-			
Tri-clamp gauge port on the right side (ref. to the now direction) – downstream pressure	Jiessuie							5	-			
Threaded gauge port on the left side (rel. to the flow direction) – downstream p	ressure -	- ISC	7 R	n 1/4	,,			4	1			
Threaded gauge port on the right side (rel. to the flow direction) – downstream	-							3	1			
Threaded gauge port on both sides – downstream pressure – ISO 7 Rp 1/4"	p. 000a. c			ιρ .,	•			2	1			
Threaded gauge port on the left side (rel. to the flow direction) – downstream p	ressure -	- 1/4 [']	NP	Γ				W	1			
Threaded gauge port on the right side (rel. to the flow direction) – downstream			-	-				Υ	1			
Threaded gauge port on both sides – downstream pressure – 1/4" NPT							z	1				
Surface finish a)									1			
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	_	
Pipe connection												
Clamp ferrule ASME BPE											D	
Clamp ferrule DIN (DIN 32676-A)											F	
Clamp ferrule ISO (DIN 32676-B)											Е	
Tube weld (ETO) according to ASME BPE											DI	
Tube weld (ETO) according to DIN 11866-A (DIN 11850-2)											FI	1
Tube weld (ETO) according to DIN 11866-B (ISO 1127)											EI	1
Size											•	1
1" or DN 25												25
Special valves / Ex	tras											
Full description or additional codes have to be added in case of non-standard of		ion										

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

