







SANITARY PRESSURE REDUCING VALVE P130

DESCRIPTION

The ADCA P130 series direct acting, spring-loaded diaphragm sensing, 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.

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).

Panel mounting version (thread M45).

Gauge connection on body.

Different soft valves for liquids and gases.

Wall mounting.

USE: Clean air, nitrogen, carbon dioxide, oxygen,

argon and other gases or liquids compatible with

the construction.

AVAILABLE

MODELS: P130.

SIZES: 1/2" to 1"; DN 08 to DN 25.

REGULATING

RANGES: 0.2 - 1.5 bar; 0.3 - 3 bar; 2 - 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	P130					
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
1/2" to 1" – DN 08 to 25	SEP







		FLOW	RATE COEFFICIENT	'S (m³/h) *		
	ASME	BPE	D	IN	IS	60
SIZE	1/2"	3/4" to 1"	DN 10	DN 15 to DN 25	DN 08	DN 10 to DN 20
Kvs	1,7	3	1,7	3	1,7	3

^{*} Reduced Kvs on request.

				DIMENSI	ONS (mm) A	SME BPE				
SIZE	Α	В	С	D	d1	d2	E	F	Н	WEIGHT (kg) *
1/2"	130	36,5	130	80	25	15,75	65	25	9,4	2,9
3/4"	130	36,5	130	80	25	15,75	67,5	25	15,75	2,9
1"	130	36,5	130	80	25	15,75	72,5	50,5	22,1	3,4

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

				DIME	NSIONS (mn	n) DIN				
SIZE	Α	В	С	D	d1	d2	E	F	Н	WEIGHT (kg) *
DN 10	120	36,5	130	80	25	15,75	65	34	10	2,9
DN 15	120	36,5	130	80	25	15,75	67,5	34	16	3
DN 20	120	36,5	130	80	25	15,75	67,5	34	20	3,1
DN 25	120	38,5	128	80	25	15,75	72,5	50,5	26	3,4

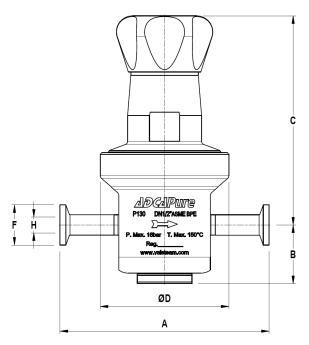
^{*} Valves with nylon adjustment knob weigh 0,3 kg less.

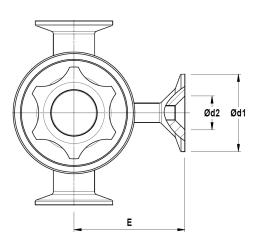
Remarks: Clamp ferrules according to DIN 32676-A; Tube weld (ETO) according to DIN 11866-A (DIN 11850-2).

				DIME	NSIONS (mn	n) ISO				
SIZE	Α	В	С	D	d1	d2	E	F	Н	WEIGHT (kg) *
DN 08	120	36,5	130	80	25	15,75	65	25	10,3	2,9
DN 10	120	36,5	130	80	25	15,75	67,5	25	14	3
DN 15	120	36,5	130	80	25	15,75	67,5	50,5	18,1	3,2
DN 20	120	38,5	128	80	25	15,75	72,5	50,5	23,7	3,4

^{*} 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.





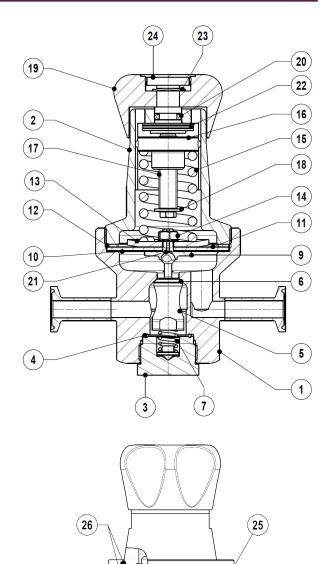


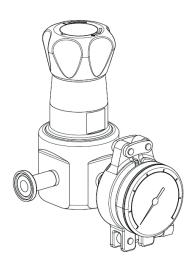
	MATERIA	LS
POS.	DESIGNATION	MATERIAL
1	Valve body	AISI 316L / 1.4404
2	Cover	AISI 316L / 1.4404
3	Seat cover	AISI 316L / 1.4404
4	* O-ring	Viton ; EPDM
5	* Piston	AISI 316L / 1.4404
6	* Valve head	AISI 316L / 1.4404 ; Viton ; PTFE
7	* Valve spring	AISI 316 / 1.4401 electropolished
9	Pusher disc	AISI 316L / 1.4404
10	* Lower diaphragm	PTFE (Gylon)
11	* Upper diphragm	EPDM
12	Washer	AISI 304 / 1.4301
13	Spring plate	AISI 316L / 1.4404
14	Nut	Stainless steel A2-70
15	* Adjustment spring	AISI 302 / 1.4300
16	Spring plate	AISI 316L / 1.4404
17	Adjustment screw	Brass
18	Retaining washer	Stainless steel A2-70
19	A divistment knob	AISI 316L / 1.4404
19	Adjustment knob	Nylon
20	O-ring	NBR
21	** O-ring	EPDM
22	Bearing	Corrosion resistant steel
23	Ext. bowed shaft ring	Stainless steel
24	Cover nut	Plastic
25	Captured vent ring	AISI 316L / 1.4404
26	O-rings	NBR

^{*} Available spare parts ; ** If applicable.

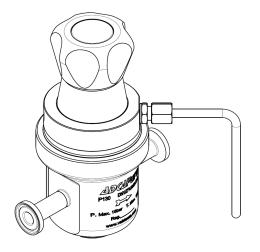
Remarks: FDA / USP Class VI seals certificate on request.

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.



Optional 1/8" captured vent and/or leakage connection (compression fitting and tube not included).





ORDERING CODES P	130											
Valve model	P13	1	1	Т	М	Х	1	Х	Х	х	DI	08
P130 – AISI 316L / 1.4404 diaphragm sensing pressure reducing valve	P13	-	-	-			_					
Regulating range	1 .0											
0,2 to 1,5 bar		1										
0,3 to 3 bar		2										
2 to 8 bar		3										
Flow rate coefficient												
Kvs 0,6			1									
Kvs 1			2									
Kvs 1,7			3									
Kvs 3 (not applicable to sizes 1/2" ASME BPE, DIN DN 10 and ISO DN 08)			6									
Diaphragm												
PTFE (Gylon)				Т								
EPDM (non-standard)				Е]							
Seat material												
Metal to metal (non-standard)					M							
EPDM					Е							
PTFE					Т							
FPM / Viton					V							
Relieving												
Non-relieving						X						
Relieving (only for non-dangerous gases)						R						
Relieving with captured vent						L						
Adjustment knob and top cap												
Stainless steel adjustment knob							<u> </u>					
Nylon adjustment knob							P					
Top cap (adjustment screw with cover)							Т					
Gauge port options								_				
Without gauge ports								7				
Tri-clamp gauge port on the left side (rel. to the flow direction) – downstream pressur- Tri-clamp gauge port on the right side (rel. to the flow direction) – downstream pressur-								6				
Tri-clamp gauge port on the right side (ref. to the flow direction) – downstream press Tri-clamp gauge port on both sides – downstream pressure	Suit							5				
Threaded gauge port on the left side (rel. to the flow direction) – downstream pressi	ure – IS) 7 F	2n 1/	A "				4				
Threaded gauge port on the right side (ref. to the flow direction) – downstream press								3				
Threaded gauge port on both sides – downstream pressure – ISO 7 Rp 1/4"	ourc it	-	ТЪ	17-7				2				
Threaded gauge port on the left side (rel. to the flow direction) – downstream pressi	ure – 1/4	ı" NF						w				
Threaded gauge port on the right side (rel. to the flow direction) – downstream pres								Υ				
Threaded gauge port on both sides – downstream pressure – 1/4" NPT								Z				
Surface finish a)												
Standard surface finish									Х	1		
Mirror mechanical polished external surfaces (SF1)									Р	1		
Electropolished internal wetted parts (SF5)									Е	1		
Special features										1		
None										Х	1	
Degreased for oxygen										0		
Pipe connection											D	
Clamp ferrule ASME BPE			_								F	
Clamp ferrule ASME BPE Clamp ferrule DIN (DIN 32676-A)											Е	
Clamp ferrule ASME BPE Clamp ferrule DIN (DIN 32676-A) Clamp ferrule ISO (DIN 32676-B)												
Clamp ferrule ASME BPE Clamp ferrule DIN (DIN 32676-A) Clamp ferrule ISO (DIN 32676-B) Tube weld (ETO) according to ASME BPE											DI	
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Clamp ferrule ASME BPE Clamp ferrule DIN (DIN 32676-A) Clamp ferrule ISO (DIN 32676-B) Tube weld (ETO) according to ASME BPE Tube weld (ETO) according to DIN 11866-A (DIN 11850-2) Tube weld (ETO) according to DIN 11866-B (ISO 1127)											_	
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Clamp ferrule ASME BPE Clamp ferrule DIN (DIN 32676-A) Clamp ferrule ISO (DIN 32676-B) Tube weld (ETO) according to ASME BPE Tube weld (ETO) according to DIN 11866-A (DIN 11850-2) Tube weld (ETO) according to DIN 11866-B (ISO 1127) Size DN 08 DN 10											FI	10
Clamp ferrule ASME BPE Clamp ferrule DIN (DIN 32676-A) Clamp ferrule ISO (DIN 32676-B) Tube weld (ETO) according to ASME BPE Tube weld (ETO) according to DIN 11866-A (DIN 11850-2) Tube weld (ETO) according to DIN 11866-B (ISO 1127) Size DN 08 DN 10 1/2" or DN 15											FI	10 15
Clamp ferrule ASME BPE Clamp ferrule DIN (DIN 32676-A) Clamp ferrule ISO (DIN 32676-B) Tube weld (ETO) according to ASME BPE Tube weld (ETO) according to DIN 11866-A (DIN 11850-2) Tube weld (ETO) according to DIN 11866-B (ISO 1127) Size DN 08 DN 10 1/2" or DN 15 3/4" or DN 20											FI	10 15 20
Clamp ferrule ASME BPE Clamp ferrule DIN (DIN 32676-A) Clamp ferrule ISO (DIN 32676-B) Tube weld (ETO) according to ASME BPE Tube weld (ETO) according to DIN 11866-A (DIN 11850-2) Tube weld (ETO) according to DIN 11866-B (ISO 1127) Size DN 08 DN 10 1/2" or DN 15											FI	10 15



