







SANITARY PRESSURE SUSTAINING VALVE **PS130**

DESCRIPTION

The ADCA PS130 series direct acting, spring-loaded diaphragm sensing pressure sustaining 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.

MAIN FEATURES

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: PS130.

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	PS130						
Body design conditions	PN 16						
Maximum upstream pressure	8 bar						
Minimum upstream pressure	0,2 bar						
Maximum design temperature *	150 °C						

^{*} Others on request.

CE MARKING – GROUP 2 (PED – European Directive)					
PN 16	Category				
1/2" to 1" – DN 08 to DN 25	SEP				













	FLOW RATE COEFFICIENTS (m³/h) *									
	ASME	BPE DIN			IS	30				
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.

	DIMENSIONS (mm) ASME BPE											
SIZE A B		В	С	D	d1 d2		E	F	Н	WEIGHT (kg)		
1/2"	130	30	127	80	25	15,75	65	25	9,4	2,9		
3/4"	130	30	127	80	25	15,75	67,5	25	15,75	2,9		
1"	130	30	127	80	25	15,75	72,5	50,5	22,1	3,4		

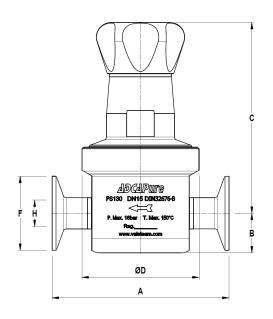
^{*} Valves with nylon adjustment knob weigh 0,3 kg less.

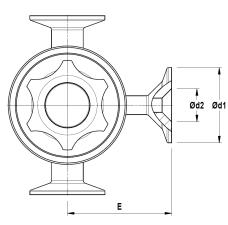
	DIMENSIONS (mm) DIN											
SIZE	Α	В	С	D	d1	d2	E	F	Н	WEIGHT (kg)		
DN 10	120	30	127	80	25	15,75	65	34	10	2,9		
DN 15	120	30	127	80	25	15,75	67,5	34	16	3		
DN 20	120	30	127	80	25	15,75	67,5	34	20	3,1		
DN 25	120	32	125	80	25	15,75	72,5	50,5	26	3,4		

* 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).

	DIMENSIONS (mm) ISO											
SIZE	Α	В	С	D	d1	d2	E	F	Н	WEIGHT (kg)		
DN 08	120	30	127	80	25	15,75	65	25	10,3	2,9		
DN 10	120	30	127	80	25	15,75	67,5	25	14	3		
DN 15	120	30	127	80	25	15,75	67,5	50,5	18,1	3,2		
DN 20	120	32	125	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.











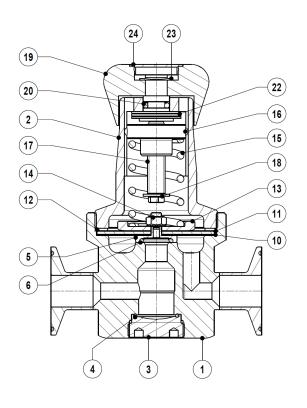


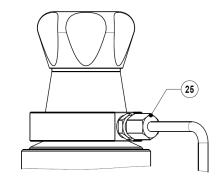
	MATERIA	LS
POS.	DESIGNATION	MATERIAL
1	Valve body	AISI 316L / 1.4404
2	Cover	AISI 316L / 1.4404
3	Seat cover	AISI 316L / 1.4404
4	* O-ring	Viton ; EPDM
5	* Piston plug	AISI 316L / 1.4404
6	* Valve head	AISI 316L / 1.4404 ; Viton ; PTFE
10	* Lower diaphragm	PTFE (Gylon)
11	* Upper diaphragm	EPDM
12	Washer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

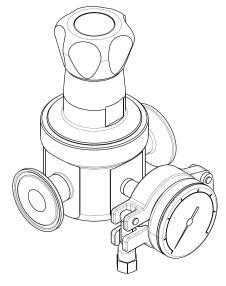


Remarks: FDA / USP Class VI seals certificate on request.

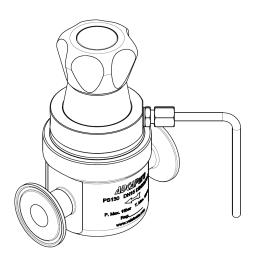
All valves have a serial number. In case of non-standard valves, this number must be supplied if spare parts are ordered.







Optional pressure gauge connection.



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









0.3 to 3 bar 2 to 8 bar 3 a 3 3 5 5 5 5 5 5 5 5	ORDERING CODES	S PS130												
1	Valve model	PS13	1	3	Т	М	Х	ı	Х	Х	Х	DI	15	Е
1	PS130 – AISI 316L / 1.4404 diaphragm sensing pressure sustaining valve													
1	· · · · · · · · · · · · · · · · · · ·													
2 to 8 bar	0,2 to 1,5 bar		1	1										
Flow rate coefficient	0,3 to 3 bar		2											
Kive 1.7 Kvs 3 (only applicable to sizes: 34", 1", DIN DN 15 to 25, ISO DN 10 to 20)	2 to 8 bar		3	1										
Note Company Company	Flow rate coefficient			1										
Disphragm	Kvs 1,7			3	1									
Diaphragm	Kvs 3 (only applicable to sizes: 3/4", 1", DIN DN 15 to 25, ISO DN 10 to 20)			6	İ									
EPDM (non-standard) Be														
EPDM (non-standard) Be	PTFE (Gylon)				Т	1								
Name					Е	1								
EPDM						ĺ								
PFFE	Metal to metal (non-standard)					М								
PFM / Vition Relieving X Relieving X Relieving X Relieving option not applicable X X Adjustment knob and top cap X X X X X X X X X	EPDM					Е								
Relieving option not applicable X Diaphtragm cover leakage connection in case of diaphtragm failure (captured vent) L Adjustment knob and top cap P Diaphtragm cover leakage connection in case of diaphtragm failure (captured vent) L Nylon adjustment knob P Top cap (adjustment knob P T	PTFE					Т								
Relieving option not applicable Adjustment knob and top cap	FPM / Viton					٧	1							
Relieving option not applicable Adjustment knob and top cap	Relieving													
Diaphragm cover leakage connection in case of diaphragm failure (captured vent) L Adjustment knob and top cap I Adjustment knob I Nylon adjustment knob I	Relieving option not applicable						Х	1						
Stainless steel adjustment knob	Diaphragm cover leakage connection in case of diaphragm failure (captured ve	nt)					L							
Nylon adjustment knob														
Top cap (adjustment screw with cover)	Stainless steel adjustment knob							T	1					
Gauge port options	Nylon adjustment knob							Р	1					
Gauge port options	Top cap (adjustment screw with cover)							Т	1					
Without gauge ports									1					
Tri-clamp gauge port on the left side (rel. to the flow direction) – downstream pressure									Х					
Tri-clamp gauge port on the right side (rel. to the flow direction) – downstream pressure 5 5 5 5 5 5 5 5 5		essure							7					
Threaded gauge port on the left side (rel. to the flow direction) – downstream pressure – ISO 7 Rp 1/4" 4	Tri-clamp gauge port on the right side (rel. to the flow direction) – downstream p	ressure							6					
Threaded gauge port on the right side (rel. to the flow direction) – downstream pressure – ISO 7 Rp 1/4" 2 2 2 2 3 3 3 4 4 5 5 5 5 5 5 5 5	Tri-clamp gauge port on both sides – downstream pressure								5					
Threaded gauge port on both sides – downstream pressure – ISO 7 Rp 1/4" 2 2	Threaded gauge port on the left side (rel. to the flow direction) – downstream pr	essure – IS	SO 7	Rp 1	/4"				4					
Threaded gauge port on the left side (rel. to the flow direction) – downstream pressure – 1/4" NPT	Threaded gauge port on the right side (rel. to the flow direction) – downstream	oressure –	ISO 1	7 Rp	1/4"				3	1				
Threaded gauge port on the left side (rel. to the flow direction) – downstream pressure – 1/4" NPT	Threaded gauge port on both sides – downstream pressure – ISO 7 Rp 1/4"								2					
Threaded gauge port on both sides – downstream pressure – 1/4" NPT	Threaded gauge port on the left side (rel. to the flow direction) – downstream pr	essure – 1	/4" N	PT					W	1				
Surface finish a X Mirror mechanical polished external surfaces (SF1) P Electropolished internal wetted parts (SF5) E E Special features	Threaded gauge port on the right side (rel. to the flow direction) – downstream	oressure –	1/4" I	NPT					Υ					
Standard surface finish X Mirror mechanical polished external surfaces (SF1) P Electropolished internal wetted parts (SF5) E E Special features X Degreased for oxygen O O O O O O O O O	Threaded gauge port on both sides – downstream pressure – 1/4" NPT								Z					
Mirror mechanical polished external surfaces (SF1)	Surface finish a)													
Electropolished internal wetted parts (SF5) E Special features	Standard surface finish									Х	1			
Special features X X Degreased for oxygen O O Pipe connection O 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 DIN 11866-A (DIN 11850-2) FI Tube weld (ETO) according to DIN 11866-B (ISO 1127) EI Size DN 08 08 DN 10 10 1/2" or DN 15 15 3/4" or DN 20 20 1" or DN 25 Special valves / Extras	Mirror mechanical polished external surfaces (SF1)									Р				
None	Electropolished internal wetted parts (SF5)									Е	1			
Degreased for oxygen	Special features													
Pipe connection 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 DIN 11866-A (DIN 11850-2) FI Tube weld (ETO) according to DIN 11866-B (ISO 1127) EI Size DN 08 08 DN 10 10 1/2" or DN 15 15 3/4" or DN 20 20 1" or DN 25 Special valves / Extras	None										Х			
Clamp ferrule ASME BPE	Degreased for oxygen										0			
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 DIN 11866-A (DIN 11850-2) FI Tube weld (ETO) according to DIN 11866-B (ISO 1127) EI Size DN 08 08 DN 10 10 1/2" or DN 15 15 3/4" or DN 20 20 1" or DN 25 Special valves / Extras	Pipe connection										,			
Clamp ferrule ISO (DIN 32676-B) E Tube weld (ETO) according to ASME BPE DI Tube weld (ETO) according to DIN 11866-A (DIN 11850-2) FI Tube weld (ETO) according to DIN 11866-B (ISO 1127) EI EI EI EI EI EI EI E	Clamp ferrule ASME BPE											D]	
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 10 1/2" or DN 15 3/4" or DN 20 1" or DN 25 Special valves / Extras	Clamp ferrule DIN (DIN 32676-A)											F]	
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 1" or DN 25 Special valves / Extras	Clamp ferrule ISO (DIN 32676-B)											Е]	
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 1" or DN 25 Special valves / Extras	Tube weld (ETO) according to ASME BPE											DI	1	
Size DN 08 08 DN 10 10 1/2" or DN 15 15 3/4" or DN 20 20 1" or DN 25 25 Special valves / Extras	Tube weld (ETO) according to DIN 11866-A (DIN 11850-2)											FI]	
DN 08 DN 10 1/2" or DN 15 3/4" or DN 20 1" or DN 25 Special valves / Extras	Tube weld (ETO) according to DIN 11866-B (ISO 1127)											EI]	
DN 10 1/2" or DN 15 3/4" or DN 20 1" or DN 25 Special valves / Extras	Size													
1/2" or DN 15 3/4" or DN 20 1" or DN 25 Special valves / Extras	DN 08												08	1
3/4" or DN 20 20 1" or DN 25 Special valves / Extras	DN 10												10	1
1" or DN 25 Special valves / Extras	1/2" or DN 15													1
1" or DN 25 Special valves / Extras	3/4" or DN 20													1
Special valves / Extras	1" or DN 25												-	1
·		tras												
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a) Consult IS PV20.00 for further details and other surface finish options.







