





SANITARY PRESSURE REDUCING VALVE P130C (Clamped body)

DESCRIPTION

The ADCA P130C 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.

MAIN FEATURES

Compact design.

Completely machined from 316L stainless steel bar stock, no castings or forgings are used.

FDA / USP Class VI compliant seals.

No rising stem. Clamped body.

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).

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: P130C.

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

OUTLET SPRING

RANGES: 0,2 – 1,5 bar; 0,3 – 3 bar; 2 – 8 bar. CONNECTIONS: Clamp ends or 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.

ORDER

REQUIREMENTS: Type of fluid.

Maximum operating temperature.

Inlet pressure and required outlet pressure

capacity (maximum and minimum).

CE MARKING (PED – European Directive)					
PN16	Category				
1/2" to 1" ; DN 08 to DN 25	SEP				





Cutaway view with pressure gauge connection

LIMITING CONDITIONS	
Valve model	P130C
Body design conditions	PN16
Max. upstream pressure	16 bar
Max. downstream pressure	8 bar
Min. downstream pressure	0,2 bar
Max. design temperature *	150 °C

^{*} Other on request.





				DIME	NSIONS (mm) ASI	IE BPE				
SIZE	Kvs *	A **	В	С	Ø D	Ø d1	Ø d2 **	E	F	Н	WEIGHT (kg)
1/2"	1,7	130	36,5	130	90	25	15,75	75	25	9,4	2,9
3/4"	3	130	36,5	130	90	25	15,75	80	25	15,75	2,9
1"	3	130	36,5	130	90	25	15,75	80	50,5	22,1	3,4

	DIMENSIONS (mm) DIN												
SIZE Kvs * A **		A **	В	С	C ØD Ød		Ø d2 **	E	F	Н	WEIGHT (kg)		
10	1,7	120	36,5	130	90	25	15,75	75	34	10	2,9		
15	3	120	36,5	130	90	25	15,75	75	34	16	3		
20	3	120	36,5	130	90	25	15,75	80	34	20	3,1		
25	3	120	38,5	128	90	25	15,75	80	50,5	26	3,4		

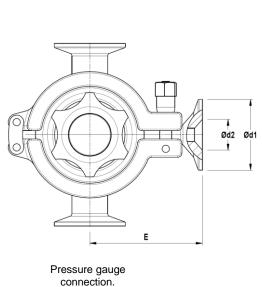
Clamp ferrules DIN 32676 Series A; Tube weld DIN 11866 Series A (DIN 11850 Series 2).

	DIMENSIONS (mm) ISO												
SIZE DN Kvs * A ** B C Ø D Ø d1 Ø d2 *		Ø d2 **	Е	F	Н	WEIGHT (kg)							
8	1,7	120	36,5	130	90	25	15,75	75	25	10,3	2,9		
10	3	120	36,5	130	90	25	15,75	80	25	14	3		
15	3	120	36,5	130	90	25	15,75	80	50,5	18,1	3,2		
20	3	120	38,5	128	90	25	15,75	80	50,5	23,7	3,4		

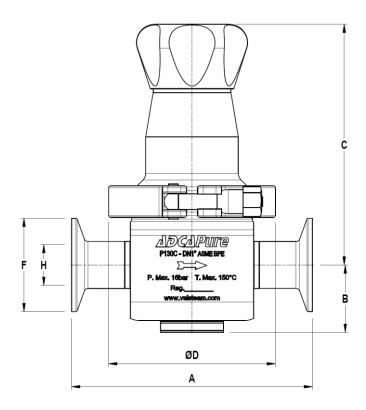
Clamp ferrules DIN 32676 Series B; Tube weld DIN 11866 Series B (ISO 1127 Series 1).

* Reduced Kvs on request.

Valves with vinyl handwheel weights less 0,3 kg.



(Optional)

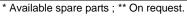


^{**} Special versions or non-standard sanitary clamp ferrules are available on request, both for the inlet/outlet and pressure gauge connection.



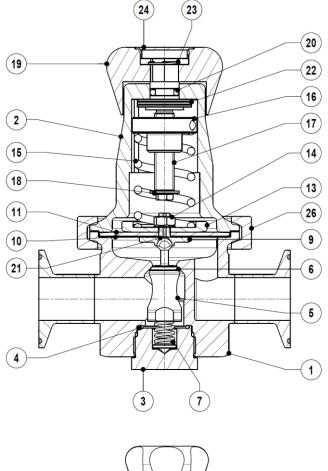


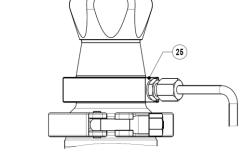
	MATER	IALS				
POS.	DESIGNATION	MATERIAL				
1	Valve body	AISI 316L / 1.4404				
2	Cover	AISI 316L / 1.4404				
3	Seat cover	AISI 316L / 1.4404				
4	* O-ring	Viton ; EPDM				
5	* Piston	AISI 316L / 1.4404				
6	* Valve head	AISI 316L / 1.4404 ; Viton ; PTFE				
7	* Valve spring	AISI 316 / 1.4401 Electropolished				
9	Pusher disc	AISI 316L / 1.4404				
10	* Lower diaphragm	PTFE (Gylon)				
11	* Upper diphragm	EPDM				
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				
40	11 * Upper diphragm EPDM 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					
19	Handwheel	Vinyl				
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	Clamp	AISI 316L / 1.4404				

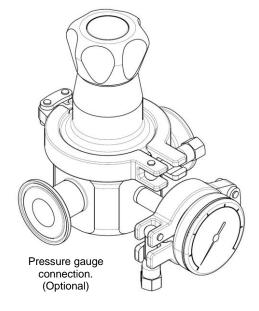


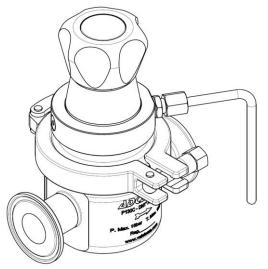
Remarks: FDA / USP Class VI seals certificate on request.

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









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

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





ORDERING CODE	S P1300	3											
Valve model	P13C	1	3	Т	М	Х	I	X	X	Х	D	15	E
P130C – AISI 316L / 1.4404 diaphragm sensing regulator	P13C												
Outlet spring range													
0,2 to 1,5 bar		1											
0,3 to 3 bar		2											
2 to 8 bar		3											
Flow capacity													
Kvs – 0.6			1										
Kvs – 1			2										
Kvs – 1,7			3										
Kvs – 3 (Only applicable to sizes 3/4", 1", DIN DN 15 to 25, ISO DN 10) to 20)		6										
Diaphragm material	/												
PTFE (Gylon)				Т									
Valve head													
Metal to metal (non-standard)					М	-							
EPDM					E								
PTFE					T								
FPM / Viton					v								
Relieving													
						Х	1						
Non-relieving						R	ł						
Relieving (only for non-dangerous gases)						ĸ							
Relieving with captured vent						<u> </u>							
Regulating knob and top cap							.						
Stainless steel							_						
Plastic Transport (a livering and a liver)							P						
Top cap (adjusting screw sealing)							Т						
Gauge port options								.,					
Without gauge ports								X					
Tri-clamp gauge port on the left side (rel. to the flow direction) – Down								7					
Tri-clamp gauge port on the right side (rel. to the flow direction) – Dow	nstream	n pre	essu	re				6					
Tri-clamp gauge port on both sides – Downstream pressure								5					
Threaded gauge port on the left side (rel. to the flow direction) – Down								4					
Threaded gauge port on the right side (rel. to the flow direction) – Dow	nstrean	n pre	essu	ire				3					
Threaded gauge port on both sides – Downstream pressure								2					
Surface finish, special services and op	otions												
None (fine machined)									X				
Mechanical polishing									Р				
Electropolishing									Е				
Special features													
None										X			
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		
ETO according to ASME BPE											DI		
ETO according to DIN 11966-A (DIN 11850-2)											FI		
ETO according to ISO 1127-1											EI		
Size													
DN 08												80	
DN 10												10	
1/2" or DN 15												15	
3/4" or DN 20												20	
							_		_		_		1
1" or DN 25			_	_	_	_			_		_	25	
	ras											25	