







## SANITARY PRESSURE REDUCING VALVES P130G

## DESCRIPTION

The ADCAPure P130G 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: ≤ 0,76 µm 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.

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

argon and other gases or liquids compatible with

the construction.

**AVAILABLE** 

P130G. MODELS:

11/2"; DN 32 and DN 40. SIZES:

REGULATING

0,2 to 1,5 bar; 0,3 to 3 bar; 2 to 8 bar. RANGES:

ASME BPE, DIN and ISO clamp ferrules or tube CONNECTIONS:

weld (ETO) ends. Others on request.

Assembling and packaging in a clean room PACKAGING:

certified according to ISO 14644-1.

The product is end capped and sealed with recyclable thermo-shrinkable plastic film, to

avoid contamination.

Horizontal installation is recommended. **INSTALLATION:** 

See IMI - Installation and maintenance

instructions.





	G – GROUP 2 ean Directive)
PN 16	Category
11/2" - DN 32 and 40	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













			FLC	W RATE COE	FFICIENTS (m	1³/h)						
CIZE		ASME BPE			DIN		ISO					
SIZE	SIZE ASME BPE 11/2"			DN 32 and 40		DN 32						
Kvs	<b>11/2"</b> 4,2 4,8 6,3		6,3	6,3 4,2 4,8 6,3				4,2 4,8 6,3				

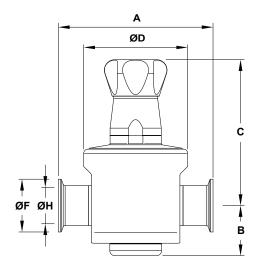
	ОРТ	ions	
LEAKAGE LINE CONNECTION	DOME-LOADING	TOP CAP	GAUGE CONNECTION
ADCAPURE  Files from the state of the state	ADCAPure	ADCA Pure	

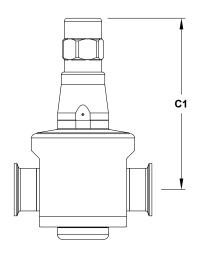








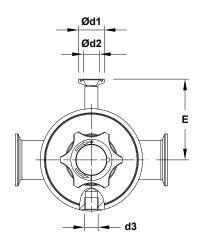


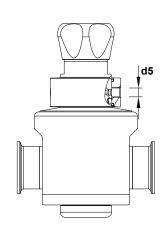


ØD C2

Optional top cap

Optional dome-loading





Optional gauge connection

Optional leakage line connection

					DIN	MENSION	IS – ASN	IE BPE (	mm)						
SIZE	Α	В	С	C1	C2	ØD	Ød1	Ød2	d3	d4	d5	E	ØF	ØН	WGT. (kg) *
11/2"	148	48	140	165,6	71,1	100	25	15,75	1/4"	1/4"	1/8"	78,5	50,4	34,8	4,99

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

	N 32 133 48 140 165,6 71,1 100 25 1							DIN (mm	1)						
SIZE	Α	В	С	C1	C2	ØD	Ød1	Ød2	d3	d4	d5	E	ØF	ØН	WGT. (kg) *
DN 32	133	48	140	165,6	71,1	100	25	15,75	1/4"	1/4"	1/8"	78,5	50,5	32	4,98
DN 40	133	48	140	165,6	71,1	100	25	15,75	1/4"	1/4"	1/8"	78,5	50,5	38	4,94

<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).

	DIMENSIONS – ISO (mm)           SIZE         A         B         C         C1         C2         ØD         Ød1         Ød2         d3         d4         d5         E         ØF         ØH         WGT. (kg) *           DN 32         133         48         140         165.6         71.1         100         25         15.75         1/4"         1/4"         1/8"         78.5         64         38.4         5.1														
SIZE	Α	В		C1	C2	ØD	Ød1	Ød2	d3	d4	d5	E	ØF	ØН	_
DN 32	133	48	140	165,6	71,1	100	25	15,75	1/4"	1/4"	1/8"	78,5	64	38,4	5,1

<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).





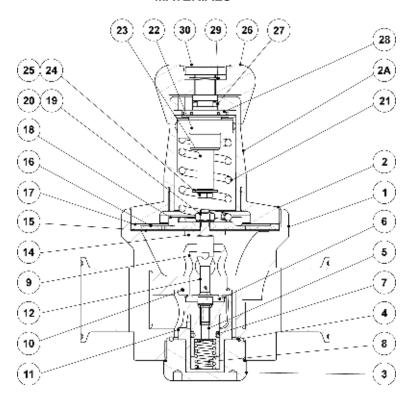


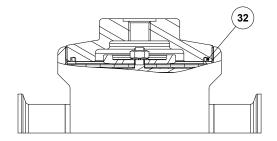




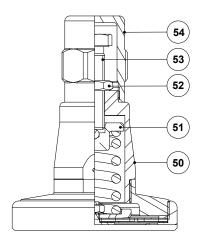


## **MATERIALS**

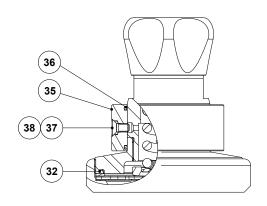




Optional dome-loading



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.











ORDERING CODES	P130G	i											
Valve model	P3G	1	2	Т	М	Х	ı	Х	Х	Х	DI	32	Γ
P130G – AISI 316L / 1.4404 diaphragm sensing pressure reducing valve	P3G												Γ
Regulating range													
0,2 to 1,5 bar		1											
0,3 to 3 bar		2											ĺ
2 to 8 bar		3											İ
0,2 to 8 bar (dome-loaded) a)		Α											İ
Flow rate coefficient													İ
Kvs 4,2			2										
Kvs 4,8			3										
Kvs 6,3			5										
Diaphragm													
PTFE (Gylon)				Т									İ
EPDM (non-standard)				Е	1								İ
Valve sealing					1								
Metal to metal (non-standard)					м								
EPDM	-				Е								
PTFE					T								
FPM / Viton (USP Class VI on request)					v								
Leakage line connection													
Without leakage line connection						Х	1						
Leakage line connection – ISO 228 G 1/8"						N	1						İ
Leakage line connection – 1/8" NPT						С	-						l
Adjustment knob and top cap							l						
Stainless steel adjustment knob								1					
Nylon adjustment knob							P	1					
Top cap (adjustment screw with cover)							т	┨					
Dome-loading – ISO 228 G 1/4" b)							X	1					l
Dome-loading – 1/4" NPT							c	-					l
Gauge connections													l
Without gauge connections								Х	1				
Tri-clamp gauge connection on the left side (relative to flow direction) – downstre	am nr	20011	~					7	1				
Tri-clamp gauge connection on the right side (relative to flow direction) – downstre								6	1				
Tri-clamp gauge connections on both sides – downstream pressure	eaiii p	1633	uie					5	ł				
Threaded gauge connection on the left side (relative to flow direction) – downstre	om pr	00011	ro	<u>~~</u>	20 C	1/4"		_	1				
Threaded gauge connection on the right side (relative to flow direction) – downst								3	ł				l
		11622	ure -	130	220	G 1/4	-	2	1				ŀ
Threaded gauge connections on both sides – downstream pressure – ISO 228 G Threaded gauge connection on the left side (relative to flow direction) – downstream		00011	ro	1/4" N	JDT			W	-				
								_	-				
Threaded gauge connection on the right side (relative to flow direction) – downst	ream p	ress	ure -	1/4	NPI			Y	-				
Threaded gauge connections on both sides – downstream pressure – 1/4" NPT								Z					
Surface finish c)									\ \ \	ł			
Standard surface finish				X	ł								
Mirror mechanical polished external surfaces (SF1)				P	ł								
Electropolished internal wetted parts (SF5)									E	ŀ			l
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)							-				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 32												32	
11/2" or DN 40												40	
Special construction / Addition	nal op	tion	S										L
Full description or additional codes have to be added in case of non-standard co	mbinat	ion								-			
· · · · · · · · · · · · · · · · · · ·													

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.





