



SANITARY PRESSURE REDUCING VALVE P130G

DESCRIPTION

The ADCA P130G 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.

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: $\leq 0,51$ micron Ra – SF1. External: $\leq 0,76$ 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: P130G.
- SIZES: 11/2"; DN 32 to DN 40.

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	P130G
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
11/2" – DN 32 to DN 40	SEP

VALSTEAM ADCA

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





			FLOW	RATE COEFF	FICIENTS (m ³ /	'h)					
	BPE				DIN		ISO				
SIZE	11/2"		D	N 32 and DN	40						
Kvs	4,2	4,8	6,3	4,2	4,8	6,3	4,2	4,8	6,3		

				DIMENSI	ONS (mm) A	SME BPE				
SIZE	Α	В	С	D	d1	d2	E	F	н	WEIGHT (kg) *
11/2"	148	48	140	100	25	15,75	78,5	50,5	34,8	4,99

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

				DIME	NSIONS (mm	n) DIN				
SIZE	Α	В	с	D	d1	d2	E	F	н	WEIGHT (kg) *
DN 32	133	48	140	100	25	15,75	78,5	50,5	32	4,98
DN 40	133	48	140	100	25	15,75	78,5	50,5	38	4,94

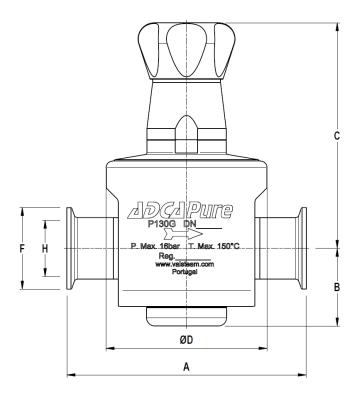
* Valves with nylon adjustment knob weigh 0,3 kg less.

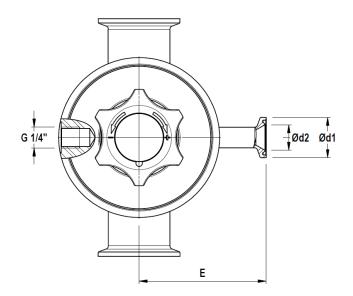
Remarks: Clamp ferrules according to DIN 32676-A; Tube weld (ETO) according to DIN 11866-A (DIN 11850-2).

				DIME	NSIONS (mm	ı) ISO				
SIZE	Α	В	с	D	d1	d2	E	F	н	WEIGHT (kg) *
DN 32	133	48	140	100	25	15,75	78,5	64	42,4	5,1

* 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.

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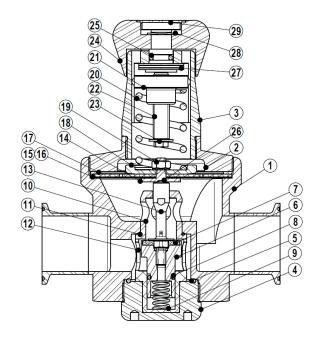


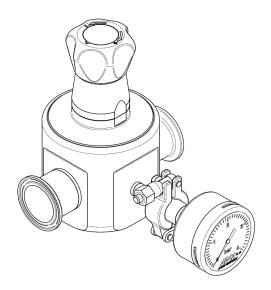
POS. N°DESIGNATIONMATERIAL1Valve bodyAISI 316L / 1.44042CoverAISI 316L / 1.44043Spring coverAISI 316L / 1.44044Seat coverAISI 316L / 1.44045* O-ringEPDM6* PistonAISI 316L / 1.44047* Valve headAISI 316L / 1.44047* Valve headAISI 316L / 1.44049* Valve springAISI 316L / 1.440410* SeatAISI 316 / 1.4401 electropolished10* SeatAISI 316 / 1.440411* O-ringEPDM12* GuideTFM 160013* StemAISI 316L / 1.440414Pusher discAISI 316L / 1.440415* Lower diaphragmPTFE (Gylon)16* Upper diaphragmEPDM17WasherAISI 304 / 1.430118Spring plateAISI 304 / 1.430119NutStainless steel A2-7020* Adjustment springAISI 304 / 1.430121Spring plateAISI 304 / 1.430122Adjustment screwBrass23Retaining washerStainless steel A2-7024Adjustment knobNylon25O-ringNBR26** O-ringEPDM27BearingCorrosion resistant steel28Ext. bowed shaft ringStainless steel29Cover putBlactio		MATERIA	LS																																																																																																								
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316L / 1.4404</td></tr> <tr><th>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 diaphragm EPDM 17 Washer AISI 304 / 1.4301 18 Spring plate AISI 304 / 1.4301 19 Nut Stainless steel A2-70 20 * Adjustment spring AISI 304 / 1.4301 21 Spring plate AISI 304 / 1.4301 22 Adjustment screw Brass 23 Retaining washer Stainless steel A2-70 24 Adjustment knob NJR 25 O-ring NBR 26 ** O-ring EPDM 27 Bearing Corrosion resistant steel 28 Ext. bowed shaft ring Stainless steel </th><td>7</td><td>* Valve head</td><td>AISI 316L / 1.4404 ; Viton ; PTFE</td></tr> <tr><th>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 diaphragm EPDM 17 Washer AISI 304 / 1.4301 18 Spring plate AISI 304 / 1.4301 19 Nut Stainless 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ringStainless steel</th><td>11</td><td>* O-ring</td><td>EPDM</td></tr> <tr><th>14Pusher discAISI 316L / 1.440415* Lower diaphragmPTFE (Gylon)16* Upper diaphragmEPDM17WasherAISI 304 / 1.430118Spring plateAISI 304 / 1.430119NutStainless steel A2-7020* Adjustment springAISI 302 / 1.430021Spring plateAISI 304 / 1.430122Adjustment springAISI 302 / 1.430021Spring plateAISI 304 / 1.430122Adjustment screwBrass23Retaining washerStainless steel A2-7024Adjustment knobNylon25O-ringNBR26** O-ringEPDM27BearingCorrosion resistant steel28Ext. bowed shaft ringStainless steel</th><td>12</td><td>* Guide</td><td>TFM 1600</td></tr> <tr><th>15* Lower diaphragmPTFE (Gylon)16* Upper diaphragmEPDM17WasherAISI 304 / 1.430118Spring plateAISI 304 / 1.430119NutStainless steel A2-7020* Adjustment springAISI 302 / 1.430021Spring plateAISI 304 / 1.430122Adjustment screwBrass23Retaining washerStainless steel A2-7024Adjustment knobNISI 316L / 1.440425O-ringNBR26** O-ringEPDM27BearingCorrosion resistant steel28Ext. bowed shaft ringStainless steel</th><td>13</td><td>* Stem</td><td>AISI 316L / 1.4404</td></tr> <tr><th>16* Upper diaphragmEPDM17WasherAISI 304 / 1.430118Spring plateAISI 304 / 1.430119NutStainless steel A2-7020* Adjustment springAISI 302 / 1.430021Spring plateAISI 304 / 1.430122Adjustment screwBrass23Retaining washerStainless steel A2-7024Adjustment knobAISI 316L / 1.440425O-ringNBR26** O-ringEPDM27BearingCorrosion resistant steel28Ext. bowed shaft ringStainless steel</th><td>14</td><td>Pusher disc</td><td>AISI 316L / 1.4404</td></tr> <tr><th>17WasherAISI 304 / 1.430118Spring plateAISI 304 / 1.430119NutStainless steel A2-7020* Adjustment springAISI 302 / 1.430021Spring plateAISI 304 / 1.430122Adjustment screwBrass23Retaining washerStainless steel A2-7024Adjustment knobAISI 316L / 1.440425O-ringNBR26** O-ringEPDM27BearingCorrosion resistant steel28Ext. bowed shaft ringStainless steel</th><td>15</td><td>* Lower diaphragm</td><td>PTFE (Gylon)</td></tr> <tr><th>18Spring plateAISI 304 / 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Bearing Corrosion resistant steel 28 Ext. bowed shaft ring Stainless steel</th><td>22</td><td>Adjustment screw</td><td>Brass</td></tr> <tr><th>24 Adjustment knob 25 O-ring 26 ** O-ring 27 Bearing 28 Ext. bowed shaft ring</th><td>23</td><td>Retaining washer</td><td>Stainless steel A2-70</td></tr> <tr><th>25 O-ring NBR 26 ** O-ring EPDM 27 Bearing Corrosion resistant steel 28 Ext. bowed shaft ring Stainless steel</th><td>24</td><td>Adjustment knah</td><td>AISI 316L / 1.4404</td></tr> <tr><th>26 ** O-ring EPDM 27 Bearing Corrosion resistant steel 28 Ext. bowed shaft ring Stainless steel</th><td>24</td><td>Adjustment knob</td><td>Nylon</td></tr> <tr><th>27 Bearing Corrosion resistant steel 28 Ext. bowed shaft ring Stainless steel</th><td>25</td><td>O-ring</td><td>NBR</td></tr> <tr><th>28 Ext. bowed shaft ring Stainless steel</th><td>26</td><td>** O-ring</td><td>EPDM</td></tr> <tr><th></th><td>27</td><td>Bearing</td><td>Corrosion resistant steel</td></tr> <tr><th>20 Cover put Pleatie</th><td>28</td><td>Ext. bowed shaft ring</td><td>Stainless steel</td></tr> <tr><th>23 Covernut Plastic</th><th>29</th><th>Cover nut</th><th>Plastic</th></tr>	4	Seat cover	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 diaphragm EPDM 17 Washer AISI 304 / 1.4301 18 Spring plate AISI 302 / 1.4300 21 Spring plate AISI 302 / 1.4300 21 Spring plate AISI 302 / 1.4300 21 Spring plate AISI 304 / 1.4301 22 Adjustment spring AISI 304 / 1.4301 22 Adjustment knob Brass 23 Retaining washer Stainless steel A2-70 24 Adjustment knob Nylon 25 O-ring NBR 26	5	* O-ring	EPDM	8* O-ringEPDM9* Valve springAISI 316 / 1.4401 electropolished10* SeatAISI 316 / 1.4401 electropolished11* O-ringEPDM12* GuideTFM 160013* StemAISI 316L / 1.440414Pusher 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Corrosion resistant steel 28 Ext. bowed shaft ring Stainless steel	7	* Valve head	AISI 316L / 1.4404 ; Viton ; PTFE	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 diaphragm 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 304 / 1.4301 22 Adjustment screw Brass 23 Retaining washer Stainless steel A2-70 24 Adjustment knob Nylon 25 O-ring NBR 26 ** O-ring EPDM 27 Bearing Corrosion resistant steel 28 Ext. bowed shaft ring Stainless steel	8	* O-ring	EPDM	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 diaphragm 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 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1.430122Adjustment screwBrass23Retaining washerStainless steel A2-7024Adjustment knobNISI 316L / 1.440425O-ringNBR26** O-ringEPDM27BearingCorrosion resistant steel28Ext. bowed shaft ringStainless steel	13	* Stem	AISI 316L / 1.4404	16* Upper diaphragmEPDM17WasherAISI 304 / 1.430118Spring plateAISI 304 / 1.430119NutStainless steel A2-7020* Adjustment springAISI 302 / 1.430021Spring plateAISI 304 / 1.430122Adjustment screwBrass23Retaining washerStainless steel A2-7024Adjustment knobAISI 316L / 1.440425O-ringNBR26** O-ringEPDM27BearingCorrosion resistant steel28Ext. bowed shaft ringStainless steel	14	Pusher disc	AISI 316L / 1.4404	17WasherAISI 304 / 1.430118Spring plateAISI 304 / 1.430119NutStainless steel A2-7020* Adjustment springAISI 302 / 1.430021Spring plateAISI 304 / 1.430122Adjustment screwBrass23Retaining washerStainless steel A2-7024Adjustment knobAISI 316L / 1.440425O-ringNBR26** O-ringEPDM27BearingCorrosion resistant steel28Ext. bowed shaft ringStainless steel	15	* Lower diaphragm	PTFE (Gylon)	18Spring plateAISI 304 / 1.430119NutStainless steel A2-7020* Adjustment springAISI 302 / 1.430021Spring plateAISI 304 / 1.430122Adjustment screwBrass23Retaining washerStainless steel A2-7024Adjustment knobAISI 316L / 1.440425O-ringNBR26** O-ringEPDM27BearingCorrosion resistant steel28Ext. bowed shaft ringStainless steel	16	* Upper diaphragm	EPDM	19NutStainless steel A2-7020* Adjustment springAISI 302 / 1.430021Spring plateAISI 304 / 1.430122Adjustment screwBrass23Retaining washerStainless steel A2-7024Adjustment knobAISI 316L / 1.440425O-ringNBR26** O-ringEPDM27BearingCorrosion resistant steel28Ext. bowed shaft ringStainless steel	17	Washer	AISI 304 / 1.4301	20* Adjustment springAISI 302 / 1.430021Spring plateAISI 304 / 1.430122Adjustment screwBrass23Retaining washerStainless steel A2-7024Adjustment knobAISI 316L / 1.440425O-ringNBR26** O-ringEPDM27BearingCorrosion resistant steel28Ext. bowed shaft ringStainless steel	18	Spring plate	AISI 304 / 1.4301	21Spring 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A2-70	25 O-ring NBR 26 ** O-ring EPDM 27 Bearing Corrosion resistant steel 28 Ext. bowed shaft ring Stainless steel	24	Adjustment knah	AISI 316L / 1.4404	26 ** O-ring EPDM 27 Bearing Corrosion resistant steel 28 Ext. bowed shaft ring Stainless steel	24	Adjustment knob	Nylon	27 Bearing Corrosion resistant steel 28 Ext. bowed shaft ring Stainless steel	25	O-ring	NBR	28 Ext. bowed shaft ring Stainless steel	26	** O-ring	EPDM		27	Bearing	Corrosion resistant steel	20 Cover put Pleatie	28	Ext. bowed shaft ring	Stainless steel	23 Covernut Plastic	29	Cover nut	Plastic
4	Seat cover	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 diaphragm EPDM 17 Washer AISI 304 / 1.4301 18 Spring plate AISI 302 / 1.4300 21 Spring plate AISI 302 / 1.4300 21 Spring plate AISI 302 / 1.4300 21 Spring plate AISI 304 / 1.4301 22 Adjustment spring AISI 304 / 1.4301 22 Adjustment knob Brass 23 Retaining washer Stainless steel A2-70 24 Adjustment knob Nylon 25 O-ring NBR 26	5	* O-ring	EPDM																																																																																																								
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26 ** O-ring EPDM 27 Bearing Corrosion resistant steel 28 Ext. bowed shaft ring Stainless steel	24	Adjustment knob	Nylon																																																																																																								
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20 Cover put Pleatie	28	Ext. bowed shaft ring	Stainless steel																																																																																																								
23 Covernut Plastic	29	Cover nut	Plastic																																																																																																								

* 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.

VALSTEAM ДДСД





	P130G											
Valve model	P3G	1	2	Т	М	Х	Т	X	X	X	DI	32
P130G – AISI 316L / 1.4404 diaphragm sensing pressure reducing valve	P3G											
Regulating range												
0,2 to 1,5 bar		1										
0,3 to 3 bar		2										
2 to 8 bar		3										
Flow rate coefficient												
Kvs 4,2			2	-								
Kvs 4,8			3									
Kvs 6,3			5									
Diaphragm				-								
PTFE (Gylon)				T								
EPDM (non-standard)			-	E								
Seat material												
Metal to metal (non-standard)					M							
EPDM DTEE					E							
					T V							
FPM / Viton (FDA approval only)					V							
Relieving Non-relieving						x						
5						R						
Relieving (only for non-dangerous gases) Relieving with captured vent						L						
						L						
Adjustment knob and top cap Stainless steel adjustment knob												
Nylon adjustment knob							P					
Top cap (adjustment screw with cover)							Т					
Gauge port options												
Without gauge ports		_						x	1			
Tri-clamp gauge port on the left side (rel. to the flow direction) – downstream pro	essure							7	1			
Tri-clamp gauge port on the right side (rel. to the flow direction) – downstream p								6	1			
Tri-clamp gauge port on both sides – downstream pressure								5	1			
Threaded gauge port on the left side (rel. to the flow direction) – downstream pr	essure – IS	SO 7	Rp 1	/4"				4	1			
Threaded gauge port on the right side (rel. to the flow direction) – downstream p								3	1			
Threaded gauge port on both sides – downstream pressure – ISO 7 Rp 1/4"								2	1			
Threaded gauge port on the left side (rel. to the flow direction) – downstream pr	essure – 1/	/4" NI	РТ					w	1			
Threaded gauge port on the right side (rel. to the flow direction) – downstream p	oressure –	1/4" N	IPT					Y]			
Threaded gauge port on both sides – downstream pressure – 1/4" NPT								Z]			
Surface finish a)												
Standard surface finish									X			
Mirror mechanical polished external surfaces (SF1)									Ρ			
Electropolished internal wetted parts (SF5)									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)											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												20
DN 32												32
11/2" or DN 40 Special valves / Ex	trac											40
Special valves / FY	11 0 3											

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

