







SANITARY PRESSURE REDUCING VALVE P130L

DESCRIPTION

The ADCAPure P130L is a series of low flow, direct acting, diaphragm sensing 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.

MAIN FEATURES

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.

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"). Gauge connection on body.

Different soft sealings for liquids and gases.

Top cap (adjustment screw with cover).

Dome-loaded version.

Panel mounting (M45 thread).

Wall mounting.

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

argon and other gases or liquids compatible with

the construction.

MODELS: P130L.

SIZES: 1/2" to 3/4"; DN 08 to DN 20.

REGULATING

AVAILABLE

RANGES: 0,2 to 1,5 bar; 0,3 to 3 bar; 2 to 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 is recommended. See IMI

Installation and maintenance instructions.

P. Max, 18ther T. Max, 18ther Reg. Wave problems roles



LIMITING CONDITIONS	
Valve model	P130L
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 3/4" – DN 08 to 20	SEP



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







FLOW RATE COEFFICIENTS (m³/h)										
	ASME BPE DIN ISO									
SIZE		1/2" to 3/4"		[ON 10 to DN 2	10 to DN 20 DN 08 to DN 15				
Kvs	0,06	0,19	0,25	0,06	0,19	0,25	0,06	0,25		

	DIMENSIONS (mm) ASME BPE											
SIZE	SIZE A B C D d1 d2 E F H								н	WEIGHT (kg) *		
1/2"	115	23	120	64	25	15,75	65	25	9,4	2,13		
3/4"	115	23	120	64	25	15,75	65	25	15,75	2,14		

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

	DIMENSIONS (mm) DIN											
SIZE	SIZE A B C D d1 d2 E F							н	WEIGHT (kg) *			
DN 10	115	23	120	64	25	15,75	65	34	10	2,11		
DN 15	115	23	120	64	25	15,75	65	34	16	2,13		
DN 20	115	23	120	64	25	15,75	65	34	20	2,15		

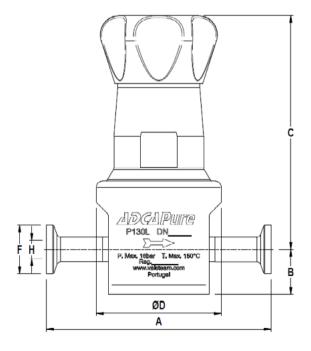
^{*} Valves with nylon adjustment knob weigh 0,3 kg less.

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

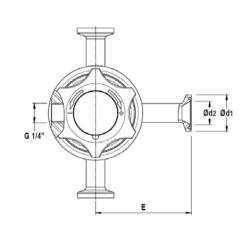
	DIMENSIONS (mm) ISO											
SIZE	SIZE A B C D d1 d2 E F									WEIGHT (kg) *		
DN 08	115	23	120	64	25	15,75	65	25	10,3	2,11		
DN 10	115	23	120	64	25	15,75	65	25	14	2,12		
DN 15	115	23	120	64	25	15,75	65	50,5	18,1	2,13		

^{*} 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).



VALSTEAM ADCA



Optional pressure gauge connection

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

IS P130L.25 E 09.18

IS P130L.25 E 09.18





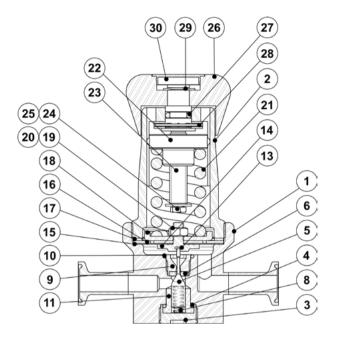


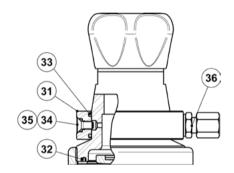
	MATERIA	LS
POS.	DESIGNATION	MATERIAL
1	Valve body	AISI 316L / 1.4404
2	Cover	AISI 316L / 1.4404
3	Bottom cover	AISI 316L / 1.4404
4	* O-ring	Viton; EPDM
5	* Plug	AISI 316L / 1.4404
6	* Valve seat seal	** TFM 1600; EPDM
8	* Valve spring	AISI 316 / 1.4401 electropolished
9	* Valve seat	AISI 316L / 1.4404
10	* O-ring	EPDM
11	Guide	TFM 1600
13	* O-ring a)	EPDM
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 316 / 1.4401
19	Nut	Stainless steel A2-70
20	* Serrated washer	AISI 304 / 1.4301
21	* Adjustment spring	AISI 302 / 1.4300
22	Spring guide	AISI 316 / 1.4401
23	Adjustment screw	Brass
24	Washer	Stainless steel A2-70
25	Bolt	Stainless steel A2-70
26	Adjustment knob	AISI 316L / 1.4404 or Nylon
27	O-ring	NBR
28	Bearing	Corrosion resistant steel
29	Shaft ring	Stainless steel
30	Cover nut	Plastic
31	Leakage line ring	AISI 316L / 1.4404
32	* O-ring	EPDM
33	O-ring	NBR
34	Bolt	AISI 304 / 1.4301
35	O-ring	Viton
36	Compression fitting	AISI 304 / 1.4301

^{*} Available spare parts. ** Others on request.

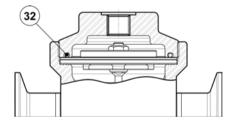
Remarks: FDA / USP Class VI seals certificate on request.

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

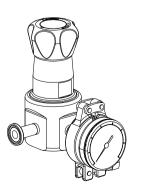




Optional leakage line connection (1/8")



Dome-loaded top



Optional pressure gauge connection

IS P130L.25 E 09.18











P130L - AlSi 316L / 1.4404 disphragm sensing pressure reducing valve	ORDERING CODES	D130I												
P130L	ORDERING CODES	1301												_
0.2 to 1.5 bar	Valve model	P3L	1	3	Т	Т	Х	ı	X	X	X	D	08	E
0,2 to 1,5 bar 0,2 to 1,5 bar 0,2 to 8 bar	P130L – AISI 316L / 1.4404 diaphragm sensing pressure reducing valve	P3L												
0.3 to 3 bar 2			ļ.,											
2 0 8 bar 0,2 to 8 bar (dome-loaded) a)														
1														
No. Flow rate coefficient			-											
Kivs 0.06 3 6 7 7 7 7 7 7 7 7 7			Α											
Kvs 0.19														
Non-standard	•			-										
PTEE (Gylon)	·			-										
PTFE (Gylon)														
EPDM (non-standard) E					-	ł								
Seat material T EPDIM					_	-								
TFM 1600	,				<u> </u>									
Relieving and leakage line connection						-								
Relieving and leakage line connection														
Non-relieving by Non-relieving with leakage line connection Non-relieving with leakage line connection Relieving (only for non-dangerous gases) Relieving with leakage line connection Long						E								
Non-relieving with leakage line connection							\ \ \							
Relieving (only for non-dangerous gases)	<u> </u>						_							
Relieving with leakage line connection	· ·													
Adjustment knob and top cap							_							
Stainless steel adjustment knob	•						L							
Nylon adjustment knob														
Top cap (adjustment screw with cover)								-	-					
Dome-loaded top b)	, ,													
Support options	, , , ,							_	ļ					
Without gauge ports	,							<u> </u>						
Tri-clamp gauge port on the left side (rel. to the flow direction) – downstream pressure 7 7 7 7 7 7 7 7 7	•													
Tri-clamp gauge port on the right side (rel. to the flow direction) – downstream pressure 5 5 5 5 5 5 5 5 5	0 0 1								_					
Tri-clamp gauge port on both sides – downstream pressure 5	, , , , , , , , , , , , , , , , , , , ,								_					
Threaded gauge port on the left side (rel. to the flow direction) – downstream pressure – ISO 7 Rp 1/4" 3 4 4 5 5 5 5 5 5 5 5		essure							_					
Threaded gauge port on the right side (rel. to the flow direction) – downstream pressure – ISO 7 Rp 1/4"									-					
Threaded gauge port on both sides – downstream pressure – ISO 7 Rp 1/4" 2									_					
Threaded gauge port on the left side (rel. to the flow direction) – downstream pressure – 1/4" NPT	, , ,	essure – I	SO 7	' Rp	1/4"				-					
Threaded gauge port on the right side (rel. to the flow direction) – downstream pressure – 1/4" NPT														
Threaded gauge port on both sides – downstream pressure – 1/4" NPT		-							W					
Surface finish c) Standard surface finish c) Standard surface finish X Mirror mechanical polished external surfaces (SF1) P Electropolished internal wetted parts (SF5) E Special features None X Degreased for oxygen O O Special features D Clamp ferrule ASME BPE D Clamp ferrule DIN (DIN 32676-A) F Clamp ferrule DIN (DIN 32676-A) F Clamp ferrule ISO (DIN 32676-B) E Tube weld (ETO) according to ASME BPE D D Tube weld (ETO) according to DIN 11866-A (DIN 11850-2) F T Tube weld (ETO) according to DIN 11866-B (ISO 1127) E D D O Size D O O O O O O O O O		essure –	1/4" N	NPT										
Standard surface finish	Threaded gauge port on both sides – downstream pressure – 1/4" NPT								Z					
Mirror mechanical polished external surfaces (SF1)	Surface finish c)													
Electropolished internal wetted parts (SF5)	Standard surface finish									X				
None	Mirror mechanical polished external surfaces (SF1)									Р				
None	Electropolished internal wetted parts (SF5)									E				
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 DN 08 08 DN 10 10 1/2" or DN 15 15 3/4" or DN 20 Special valves / Extras	None										X			
Clamp ferrule ASME BPE	Degreased for oxygen										0			
Clamp ferrule DIN (DIN 32676-A) F	Pipe connection													
Clamp ferrule ISO (DIN 32676-B)	Clamp ferrule ASME BPE											D		
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 DN 10 1/2" or DN 15 3/4" or DN 20 Special valves / Extras	Clamp ferrule DIN (DIN 32676-A)											F		
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 DN 10 1/2" or DN 15 3/4" or DN 20 Special valves / Extras	Clamp ferrule ISO (DIN 32676-B)											Е		
Tube weld (ETO) according to DIN 11866-B (ISO 1127) EI	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 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 Special valves / Extras	Tube weld (ETO) according to DIN 11866-B (ISO 1127)											EI		
DN 10 10 1/2" or DN 15 15 3/4" or DN 20 Special valves / Extras	Size													
1/2" or DN 15 15 3/4" or DN 20 20 Special valves / Extras	DN 08												08	
3/4" or DN 20 Special valves / Extras	DN 10												10	
Special valves / Extras	1/2" or DN 15												15	
•	3/4" or DN 20												20	
Full description or additional codes have to be added in case of non-standard combination	Special valves / Extr	as												
	Full description or additional codes have to be added in case of non-standard cor	mbination												Е

a) The loading control pressure can be up to a maximum of 1,2 bar above the required downstream pressure; b) These options must be chosen in case of dome-loaded version; c) Consult IS PV20.00 for further details and other surface finish options.



a) Only for versions with self-relieving option.









SANITARY PRESSURE REDUCING VALVE P130K

DESCRIPTION

The ADCAPure P130K is a series of direct acting, diaphragm sensing 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.

MAIN FEATURES

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.

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"). Gauge connection on body.

Different soft sealings for liquids and gases. Top cap (adjustment screw with cover).

Dome-loaded version.

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

argon and other gases or liquids compatible with

the construction.

AVAILABLE

P130K. MODELS:

1/2" to 3/4"; DN 08 to DN 20. SIZES:

REGULATING

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

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

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.

Horizontal installation is recommended. See IMI INSTALLATION:

Installation and maintenance instructions.







LIMITING CONDITIONS								
Valve model	P130K							
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 – GROUP 2 (PED – European Directive)						
PN 16	Category					
1/2" to 3/4" – DN 08 to 20	SEP					



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

IS P130K.10 E 04.20

LRQ/\ ISO 9001





FLOW RATE COEFFICIENTS (m³/h)										
ASME BPE DIN ISO										
SIZE	1/2" t	o 3/4"	DN 10 to DN 20 DN 08 to DN 15							
Kvs	0,7	1,3	0,7 1,3 0,7 1,3							

	DIMENSIONS (mm) ASME BPE										
SIZE	Α	В	С	D	d1	d2	d3	E	F	Н	WEIGHT (kg) *
1/2"	130	28	125	80	25	15,75	1/4"	66,5	25	9,4	2,4
3/4"	130	28	125	80	25	15,75	1/4"	66,5	25	15,75	2,4

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

	DIMENSIONS (mm) DIN										
SIZE	Α	В	С	D	d1	d2	d3	E	F	Н	WEIGHT (kg) *
DN 10	120	28	125	80	25	15,75	1/4"	66,5	34	10	2,5
DN 15	120	28	125	80	25	15,75	1/4"	66,5	34	16	2,4
DN 20	120	28	125	80	25	15,75	1/4"	66,5	34	20	2,6

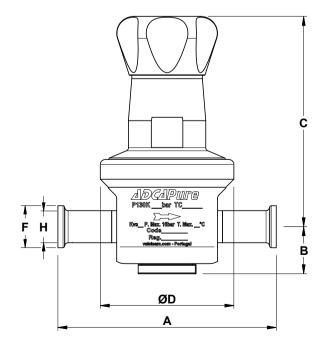
^{*} Valves with nylon adjustment knob weigh 0,3 kg less.

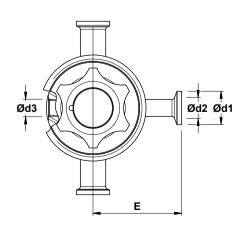
Remarks: Clamp ferrules according to DIN 32676-A; Tube weld (ETO) according to DIN 11866-A (DIN 11850-2).

DIMENSIONS (mm) ISO											
SIZE	Α	В	С	D	d1	d2	d3	E	F	н	WEIGHT (kg) *
DN 08	120	28	125	80	25	15,75	1/4"	66,5	25	10,3	2,5
DN 10	120	28	125	80	25	15,75	1/4"	66,5	25	14	2,5
DN 15	120	28	125	80	25	15,75	1/4"	66,5	50,5	18,1	2,3

^{*} 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

VALSTEAM ADCA





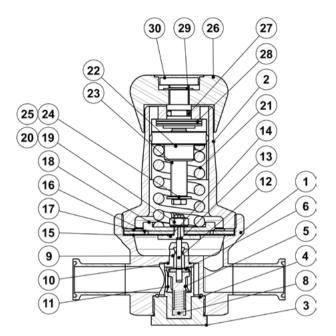


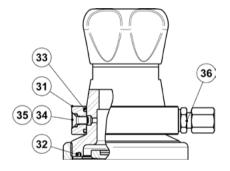
	MATERIA	LS
POS.	DESIGNATION	MATERIAL
1	Valve body	AISI 316L / 1.4404
2	Cover	AISI 316L / 1.4404
3	Bottom cover	AISI 316L / 1.4404
4	* O-ring	EPDM
5	* Piston	AISI 316L / 1.4404
6	* Valve head	** EPDM; PTFE; FPM
8	* Valve spring	Spring steel
9	* Seat	AISI 316L / 1.4404
10	* O-ring	EPDM
11	* Guide	PEEK
12	* Stem	AISI 316L / 1.4404
13	* O-ring a)	EPDM
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 316 / 1.4401
19	Nut	AISI 304 / 1.4301
20	* Serrated washer	AISI 304 / 1.4301
21	* Adjustment spring	AISI 302 / 1.4300
22	Spring guide	AISI 316 / 1.4401
23	Adjustment screw	Brass
24	Washer	Stainless steel A2-70
25	Bolt	Stainless steel A2-70
26	Adjustment knob	AISI 316L / 1.4404 or Nylon
27	O-ring	NBR
28	Bearing	Corrosion resistant steel
29	Shaft ring	Stainless steel
30	Cover nut	Plastic
31	Leakage line ring	AISI 316 / 1.4401
32	* O-ring	EPDM
33	O-ring	NBR
34	Bolt	AISI 304 / 1.4301
35	O-ring	Viton
36	Compression fitting	AISI 304 / 1.4301

^{*} Available spare parts. ** Others on request.

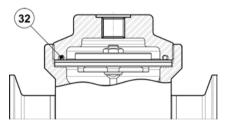
Remarks: FDA / USP Class VI seals certificate on request.

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

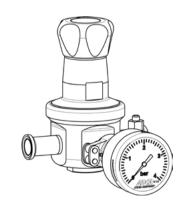




Optional leakage line connection (1/8")



Dome-loaded top



Optional pressure gauge connection

IS P130K.10 E 04.20



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







ORDERING CODES	P130K												
Valve model	P3K	1	2	Т	М	Х	ı	Х	Х	Х	DI	08	
P130K – AISI 316L / 1.4404 diaphragm sensing pressure reducing valve	P3K												
Regulating range													
),2 to 1,5 bar		1											
0,3 to 3 bar		2											
2 to 8 bar		3											
0,2 to 8 bar (dome-loaded) a)		Α											
Flow rate coefficient													
Kvs 0,7 Kvs 1.3			3 5										
Vis 1,3 Diaphragm			5										
PTFE (Gylon)				Т									
EPDM (non-standard)				Ė									
Seat material	,			_									
Metal to metal (non-standard)					м								
EPDM E													
PTFE T													
FPM / Viton (FDA approval only)													
Relieving and leakage line connection													
Non-relieving b)						Х							
Non-relieving b) Non-relieving with leakage line connection													
Relieving (only for non-dangerous gases)						R							
Relieving (only for non-dangerous gases) Relieving with leakage line connection													
Adjustment knob and top cap													
Stainless steel adjustment knob							ı]					
Nylon adjustment knob P													
Top cap (adjustment screw with cover)													
Dome-loaded top b)							X						
Gauge port options													
Nithout gauge ports								X					
Tri-clamp gauge port on the left side (rel. to the flow direction) – downstream pressure													
Tri-clamp gauge port on the right side (rel. to the flow direction) – downstream pr	essure							6					
Fri-clamp gauge port on both sides – downstream pressure		0.7.1	<u> </u>	4"				5					
Threaded gauge port on the left side (rel. to the flow direction) – downstream pre								4					
Fhreaded gauge port on the right side (rel. to the flow direction) – downstream pr Fhreaded gauge port on both sides – downstream pressure – ISO 7 Rp 1/4"	essure – i	50 /	Кр	1/4				2					
Threaded gauge port on both sides – downstream pressure – iso 7 Rp 1/4 Threaded gauge port on the left side (rel. to the flow direction) – downstream pre	scuro 1/	/" NIE	эт					W					
Threaded gauge port on the right side (ref. to the flow direction) – downstream pre								Y					
Threaded gauge port on the right side (ref. to the now direction) – downstream pressure – 1/4" NPT	essure –	1/4 1	NI I					Z					
Surface finish c)								-	1				
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			
Degreased for oxygen										0			
Pipe connection											L		
Clamp ferrule ASME BPE											D		
Clamp ferrule DIN (DIN 32676-A)											F		
Clamp ferrule ISO (DIN 32676-B)											Е		
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													
ON 08												08	
ON 10												10	
17.7" or 1301 15												15	
1/2" or DN 15 3/4" or DN 20 Special valves / Extr												20	

a) The loading control pressure can be up to a maximum of 1,2 bar above the required downstream pressure; b) These options must be chosen in case of dome-loaded version; c) Consult IS PV20.00 for further details and other surface finish options.



a) Only for versions with self-relieving option.









SANITARY PRESSURE REDUCING VALVE P130J

DESCRIPTION

The ADCAPure P130J 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.

MAIN FEATURES

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.

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"). Gauge connection on body.

Different soft sealings for liquids and gases. Top cap (adjustment screw with cover).

Dome-loaded version.

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

argon and other gases or liquids compatible with

the construction.

AVAILABLE

MODELS: P130J.

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

REGULATING

RANGES: 0,2 to 1,5 bar; 0,3 to 3 bar; 2 to 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 is recommended. See IMI

Installation and maintenance instructions.





LIMITING CONDITIONS									
Valve model	P130J								
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.

	G – GROUP 2 ean Directive)
PN 16	Category
1/2" to 1" – DN 08 to 25	SEP

IS P130J.10 E 03.20



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







FLOW RATE COEFFICIENTS (m³/h)									
	ASME BPE DIN ISO								
SIZE	1/2"	3/4" to 1"		DN 10	N 10 DN 15 to DN 25		DN 08 DN 10 to		o DN 20
Kvs	1,7	1,7	2,4	1,7	1,7	2,4	1,7	1,7	2,4

	DIMENSIONS (mm) ASME BPE										
SIZE	Α	В	С	D	d1	d2	d3	E	F	Н	WEIGHT (kg) *
1/2"	130	32	129	90	25	15,75	1/4"	73,5	25	9,4	3,4
3/4"	130	32	129	90	25	15,75	1/4"	73,5	25	15,75	3,4
1"	130	32	129	90	25	15,75	1/4"	73,5	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	d3	E	F	н	WEIGHT (kg) *
DN 10	120	32	129	90	25	15,75	1/4"	73,5	34	10	3,4
DN 15	120	32	129	90	25	15,75	1/4"	73,5	34	16	3,3
DN 20	120	32	129	90	25	15,75	1/4"	73,5	34	20	3,3
DN 25	120	32	129	90	25	15,75	1/4"	73,5	50,5	26	3,3

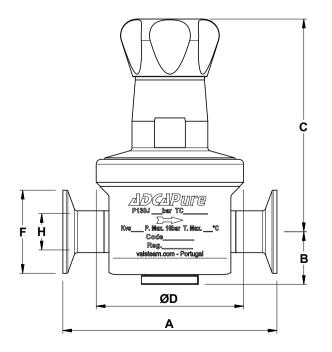
^{*} Valves with nylon adjustment knob weigh 0,3 kg less.

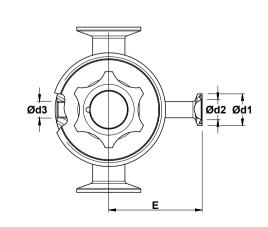
Remarks: Clamp ferrules according to DIN 32676-A; Tube weld (ETO) according to DIN 11866-A (DIN 11850-2).

	DIMENSIONS (mm) ISO										
SIZE	Α	В	С	D	d1	d2	d3	E	F	н	WEIGHT (kg) *
DN 08	120	32	129	90	25	15,75	1/4"	73,5	25	10,3	3,4
DN 10	120	32	129	90	25	15,75	1/4"	73,5	25	14	3,4
DN 15	120	32	129	90	25	15,75	1/4"	73,5	50,5	18,1	3,4
DN 20	120	32	129	90	25	15,75	1/4"	73,5	50,5	27,7	3,3

^{*} 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

VALSTEAM ADCA





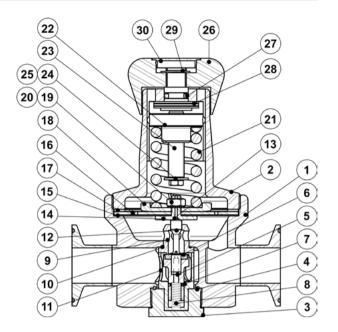


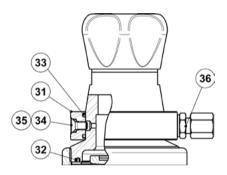
	MATERIA	LS
POS.	DESIGNATION	MATERIAL
1	Valve body	AISI 316L / 1.4404
2	Cover	AISI 316L / 1.4404
3	Bottom cover	AISI 316L / 1.4404
4	* O-ring	EPDM
5	* Piston	AISI 316L / 1.4404
6	* Valve head	** EPDM; PTFE; FPM
7	* O-ring	EPDM
8	* Valve spring	Spring steel
9	* Seat	AISI 316L / 1.4404
10	* O-ring	EPDM
11	* Guide	AISI 316L / 1.4404
12	* Stem	AISI 316L / 1.4404
13	* O-ring a)	EPDM
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 316 / 1.4401
19	Nut	AISI 304 / 1.4301
20	Serrated washer	AISI 304 / 1.4301
21	* Adjustment spring	AISI 302 / 1.4300
22	Spring guide	AISI 316 / 1.4401
23	Adjustment screw	Brass
24	Washer	Stainless steel A2-70
25	Bolt	Stainless steel A2-70
26	Adjustment knob	AISI 316L / 1.4404 or Nylon
27	O-ring	NBR
28	Bearing	Corrosion resistant steel
29	Shaft ring	Stainless steel
30	Cover nut	Plastic
31	Leakage line ring	AISI 316 / 1.4401
32	* O-ring	EPDM
33	O-ring	NBR
34	Bolt	AISI 304 / 1.4301
35	O-ring	Viton
36	Compression fitting	AISI 304 / 1.4301

^{*} 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.

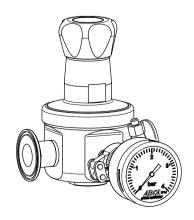




Optional leakage line connection (1/8")



Dome-loaded top



Optional pressure gauge connection

IS P130J.10 E 03.20









ORDERING CODES	P130J											
Valve model	P3J	1	2	Т	М	Х	l i	Х	Х	Х	DI	25
P130J – AISI 316L / 1.4404 diaphragm sensing pressure reducing valve	P3J	'		•	141	^	•	^	^		Di	23
Regulating range	1 . 00	1										
0,2 to 1,5 bar		1	1									
0,3 to 3 bar		2										
2 to 8 bar		3										
0,2 to 8 bar (dome-loaded) a)		Α										
Flow rate coefficient												
Kvs 1,7			3									
Kvs 2,4 (not applicable to sizes 1/2" ASME BPE, DIN DN 10 and ISO DN 08)			5									
Diaphragm]							
PTFE (Gylon)				T								
EPDM (non-standard)				Е								
Seat material												
Metal to metal (non-standard)					M							
EPDM DTFF					E							
PTFE					T							
FPM / Viton (FDA approval only)					٧							
Relieving and leakage line connection						v						
Non-relieving b)						X						
Non-relieving with leakage line connection						N						
Relieving (only for non-dangerous gases)						R						
Relieving with leakage line connection						L						
Adjustment knob and top cap								ł				
Stainless steel adjustment knob Nylon adjustment knob							l P	ł				
Top cap (adjustment screw with cover)		-					T	1				
Dome-loaded top b)							X	ł				
Gauge port options								1				
Without gauge ports								Х				
Tri-clamp gauge port on the left side (rel. to the flow direction) – downstream pres	SSLIFA							7				
Tri-clamp gauge port on the right side (rel. to the flow direction) – downstream pro-								6				
Tri-clamp gauge port on both sides – downstream pressure	000410							5	l			
Threaded gauge port on the left side (rel. to the flow direction) – downstream pre	ssure – IS	SO 7	Rp 1/	4"				4				
Threaded gauge port on the right side (rel. to the flow direction) – downstream pr								3				
Threaded gauge port on both sides – downstream pressure – ISO 7 Rp 1/4"								2				
Threaded gauge port on the left side (rel. to the flow direction) – downstream pre	ssure – 1/	4" N	PT					w	1			
Threaded gauge port on the right side (rel. to the flow direction) – downstream pr								Υ	İ			
Threaded gauge port on both sides – downstream pressure – 1/4" NPT								Z	1			
Surface finish c)									ĺ			
Standard surface finish									Х	1		
Mirror mechanical polished external surfaces (SF1)									Р	1		İ
Electropolished internal wetted parts (SF5)									Е			
Special features												
None										Х		
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	
Tube weld (ETO) according to ASME BPE											DI	
											FI	
Tube weld (ETO) according to DIN 11866-A (DIN 11850-2)											EI	
Tube weld (ETO) according to DIN 11866-B (ISO 1127)												
Tube weld (ETO) according to DIN 11866-B (ISO 1127) Size												08
Tube weld (ETO) according to DIN 11866-B (ISO 1127) Size DN 08												
Tube weld (ETO) according to DIN 11866-B (ISO 1127) Size DN 08 DN 10												10
Tube weld (ETO) according to DIN 11866-B (ISO 1127) Size DN 08 DN 10 1/2" or DN 15												15
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												15 20
Tube weld (ETO) according to DIN 11866-B (ISO 1127) Size DN 08 DN 10 1/2" or DN 15												15

a) The loading control pressure can be up to a maximum of 1,2 bar above the required downstream pressure; b) These options must be chosen in case of dome-loaded version; c) Consult IS PV20.00 for further details and other surface finish options.











SANITARY PRESSURE REDUCING VALVE P130H

DESCRIPTION

The ADCAPure P130H 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.

MAIN FEATURES

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.

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: Leakage line connection (1/8").

Gauge connection on body.

Different soft sealings for liquids and gases.
Top cap (adjustment screw with cover).

Dome-loaded version.

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

argon and other gases or liquids compatible with

the construction.

AVAILABLE

MODELS: P130H.

SIZES: 1"; DN 25.

REGULATING

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

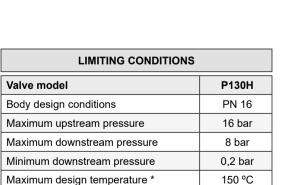
INSTALLATION: Horizontal installation is recommended.

See IMI - Installation and maintenance

instructions.







^{*} Others on request.

CE MARKING (PED – Europea							
PN 16	Category						
1" – DN 25 SEP							

IS P130H.20 E 10.18



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







	FLOW RATE COEFFICIENTS (m³/h)											
ASME BPE DIN ISO												
SIZE	E 1" DN 25 DN 25											
Kvs	3,2	4,2	3,2	4,2	3,2	4,2						

	DIMENSIONS (mm) ASME BPE														
SIZE	Α	В	С	D	d1	d2	d3	E	F	Н	WEIGHT (kg) *				
1"	148	42	146	100	25	15,75	1/4"	78,5	50,5	22,1	5,14				

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

	DIMENSIONS (mm) DIN														
											WEIGHT (kg) *				
DN 25	135	42	146	100	25	15,75	1/4"	78,5	50,5	26	5,17				

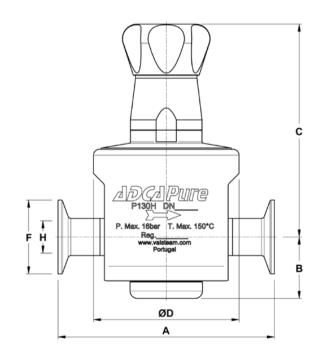
^{*} Valves with nylon adjustment knob weigh 0,3 kg less.

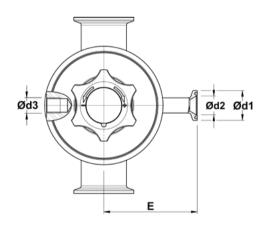
Remarks: Clamp ferrules according to DIN 32676-A; Tube weld (ETO) according to DIN 11866-A (DIN 11850-2).

		DIMENSIONS (mm) ISO														
SIZE A B C D d1 d2 d3 E F									Н	WEIGHT (kg) *						
Ī	DN 25	135	46	142	100	25	15,75	1/4"	78,5	50,5	29,7	5,16				

^{*} 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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(i)





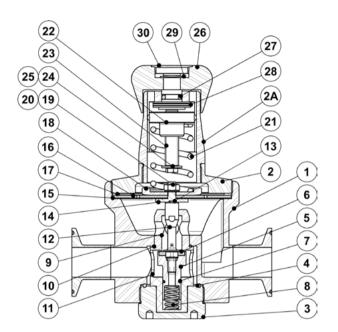


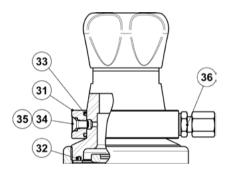
	MATERIA	LS
POS.	DESIGNATION	MATERIAL
1	Valve body	AISI 316L / 1.4404
2	Cover	AISI 316L / 1.4404
2A	Spring cover	AISI 316L / 1.4404
3	Bottom cover	AISI 316L / 1.4404
4	* O-ring	EPDM
5	* Piston	AISI 316L / 1.4404
6	* Valve head	** EPDM; PTFE; FPM
7	* O-ring	EPDM
8	* Valve spring	AISI 316 / 1.4401 electropolished
9	* Seat	AISI 316L / 1.4404
10	* O-ring	EPDM
11	* Guide	AISI 316L / 1.4404
12	* Stem	AISI 316L / 1.4404
13	* O-ring a)	EPDM
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	Serrated washer	AISI 304 / 1.4301
21	* Adjustment spring	AISI 302 / 1.4300
22	Spring guide	AISI 316 / 1.4401
23	Adjustment screw	Brass
24	Washer	Stainless steel A2-70
25	Bolt	Stainless steel A2-70
26	Adjustment knob	AISI 316L / 1.4404 or Nylon
27	O-ring	NBR
28	Bearing	Corrosion resistant steel
29	Shaft ring	Stainless steel
30	Cover nut	Plastic
31	Leakage line ring	AISI 316 / 1.4401
32	* O-ring	EPDM
33	O-ring	NBR
34	Bolt	AISI 304 / 1.4301
35	O-ring	Viton
36	Compression fitting	AISI 304 / 1.4301

^{*} Available spare parts. ** Others on request.

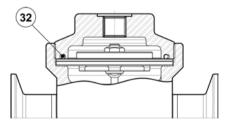
Remarks: FDA / USP Class VI seals certificate on request.

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

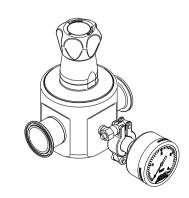




Optional leakage line connection (1/8")

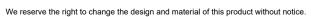


Dome-loaded top



Optional pressure gauge connection











ORDERING CODES	S P130H										
Valve model	РЗН	1	2 1	М	Х	ı	Х	Х	Х	DI	25
P130H – AISI 316L / 1.4404 diaphragm sensing pressure reducing valve	РЗН										
Regulating range											
0,2 to 1,5 bar		1									
0.3 to 3 bar		2									
2 to 8 bar	-	3									
0,2 to 8 bar (dome-loaded) a)		A									
		A									
Flow rate coefficient			4								
Kvs 3,2			1								
Kvs 4,2			2								
Diaphragm				_							
PTFE (Gylon)			1	_							
EPDM (non-standard)			_ E								
Seat material											
Metal to metal (non-standard)				М	1						
EPDM				E	_						
PTFE				Т	1						
FPM / Viton (FDA approval only)				V							
Leakage line connection											
Without leakage line connection					Х						
With leakage line connection					N]					
Adjustment knob and top cap											
Stainless steel adjustment knob						ı					
Nylon adjustment knob					_	Р					
Top cap (adjustment screw with cover)						Т					
Dome-loaded top b)					_	X	-				
Gauge port options							L.	-			
Without gauge ports							X	-			
Tri-clamp gauge port on the left side (rel. to the flow direction) – downstream pr							7	-			
Tri-clamp gauge port on the right side (rel. to the flow direction) – downstream Tri-clamp gauge port on both sides – downstream pressure	oressure			-	-		6 5	1			
Threaded gauge port on the left side (rel. to the flow direction) – downstream p	recure	180	7 Pn 1	'/ı"			4	1			
Threaded gauge port on the right side (ref. to the flow direction) – downstream							3	1			
Threaded gauge port on both sides – downstream pressure – ISO 7 Rp 1/4"	prossure	, - 10	<u>0 / 1\p</u>	1/-			2	1			
Threaded gauge port on the left side (rel. to the flow direction) – downstream p	ressure -	- 1/4 [']	NPT				w	1			
Threaded gauge port on the right side (rel. to the flow direction) – downstream							Υ	1			
Threaded gauge port on both sides – downstream pressure – 1/4" NPT							Z	1			
Surface finish c)								1			
Standard surface finish								Х			
Mirror mechanical polished external surfaces (SF1)								Р			
Electropolished internal wetted parts (SF5)								Е			
Special features											
None									Х		
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	
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											
1" or DN 25											25

a) The loading control pressure can be up to a maximum of 1,2 bar above the required downstream pressure; b) These options must be chosen in case of dome-loaded version; c) Consult IS PV20.00 for further details and other surface finish options.



a) Only for versions with self-relieving option.









SANITARY PRESSURE REDUCING VALVE 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

MAIN FEATURES

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.

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.

Leakage line connection (1/8"). OPTIONS:

Gauge connection on body.

Different soft sealings for liquids and gases. Top cap (adjustment screw with cover).

Dome-loaded version.

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 to 1,5 bar; 0,3 to 3 bar; 2 to 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 is 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 40	SEP

IS P130G.20 E 08.18



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

LRQ/\ ISO 9001





	FLOW RATE COEFFICIENTS (m³/h)												
		ASME BPE			DIN		ISO						
SIZE	IZE 11/2"				N 32 and DN 4	40							
Kvs	4,2	4,8	6,3	4,2	4,8	6,3	4,2	4,8	6,3				

	DIMENSIONS (mm) ASME BPE													
SIZE A B C D d1 d2 E F H								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.

	DIMENSIONS (mm) 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

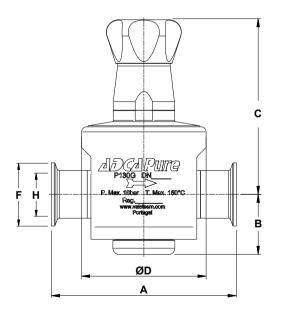
^{*} Valves with nylon adjustment knob weigh 0,3 kg less.

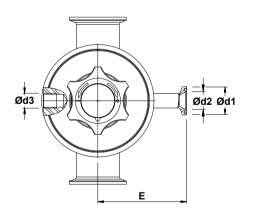
Remarks: Clamp ferrules according to DIN 32676-A; Tube weld (ETO) according to DIN 11866-A (DIN 11850-2).

	DIMENSIONS (mm) ISO									
SIZE	Α	B C D d1 d2 E F H						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

VALSTEAM ADCA



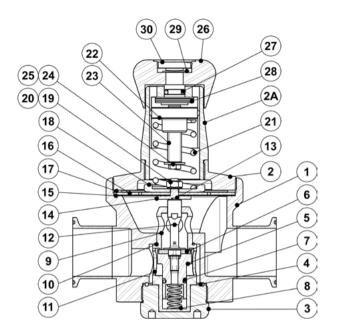


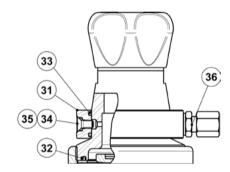


	MATERIA	LS
POS.	DESIGNATION	MATERIAL
1	Valve body	AISI 316L / 1.4404
2	Cover	AISI 316L / 1.4404
2A	Spring cover	AISI 316L / 1.4404
3	Bottom cover	AISI 316L / 1.4404
4	* O-ring	EPDM
5	* Piston	AISI 316L / 1.4404
6	* Valve head	** EPDM; PTFE; FPM
7	* O-ring	EPDM
8	* Valve spring	AISI 316 / 1.4401 electropolished
9	* Seat	AISI 316L / 1.4404
10	* O-ring	EPDM
11	* Guide	AISI 316L / 1.4404
12	* Stem	AISI 316L / 1.4404
13	* O-ring a)	EPDM
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	* Serrated washer	AISI 304 / 1.4301
21	* Adjustment spring	AISI 302 / 1.4300
22	Spring guide	AISI 316 / 1.4401
23	Adjustment screw	Brass
24	Washer	Stainless steel A2-70
25	Bolt	Stainless steel A2-70
26	Adjustment knob	AISI 316L / 1.4404 or Nylon
27	O-ring	NBR
28	Bearing	Corrosion resistant steel
29	Shaft ring	Stainless steel
30	Cover nut	Plastic
31	Leakage line ring	AISI 316 / 1.4401
32	* O-ring	EPDM
33	O-ring	NBR
34	Bolt	AISI 304 / 1.4301
35	O-ring	Viton
36	Compression fitting	AISI 304 / 1.4301

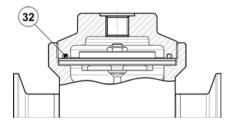
^{*} Available spare parts. ** Others on request.

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

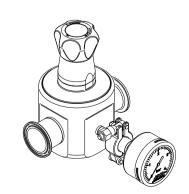




Optional leakage line connection (1/8")



Dome-loaded top



Optional pressure gauge connection









ORDERING CODES P130G											
Valve model P3G	1	2	Т	М	Х	ı	Х	х	Х	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	1									
2 to 8 bar	3	1									
0,2 to 8 bar (dome-loaded) a)	A										
Flow rate coefficient											
Kvs 4,2		2	İ								
Kvs 4,8		3									
Kvs 6,3		5	ĺ								
Diaphragm											
PTFE (Gylon)			Т								
EPDM (non-standard)			Е								
Seat material											
Metal to metal (non-standard)				М							
EPDM				Е							
PTFE				Т							
FPM / Viton (FDA approval only)				V							
Leakage line connection											
Without leakage line connection					X						
With leakage line connection					N						
Adjustment knob and top cap											
Stainless steel adjustment knob						ı					
Nylon adjustment knob P											
Top cap (adjustment screw with cover)											
Dome-loaded top b)						X					
Gauge port options											
Without gauge ports X											
1 5 5 1							7				
Tri-clamp gauge port on the right side (rel. to the flow direction) – downstream pressure							6				
Tri-clamp gauge port on both sides – downstream pressure	00.7	D= 4	/4"				5				
Threaded gauge port on the left side (rel. to the flow direction) – downstream pressure – I							3				
Threaded gauge port on the right side (rel. to the flow direction) – downstream pressure – Threaded gauge port on both sides – downstream pressure – ISO 7 Rp 1/4"	150 1	КР	1/4				2				
Threaded gauge port on both sides – downstream pressure – 130 7 Kp 1/4 Threaded gauge port on the left side (rel. to the flow direction) – downstream pressure – 1	//" NII	DT					W				
Threaded gauge port on the right side (rel. to the flow direction) – downstream pressure – Threaded gauge port on the right side (rel. to the flow direction) – downstream pressure –							Y				
Threaded gauge port on the right side (ref. to the flow direction) – downstream pressure – Threaded gauge port on both sides – downstream pressure – 1/4" NPT	1/4 1	NF I					Z				
Surface finish c)											
Standard surface finish								Х			
Mirror mechanical polished external surfaces (SF1)								P			
Electropolished internal wetted parts (SF5)								Ė			
Special features											
None									Х		
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 valves / Extras											

a) The loading control pressure can be up to a maximum of 1,2 bar above the required downstream pressure; b) These options must be chosen in case of dome-loaded version; c) Consult IS PV20.00 for further details and other surface finish options.



a) Only for versions with self-relieving option.

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







SANITARY PILOT OPERATED PRESSURE REDUCING VALVE P147

DESCRIPTION

The ADCAPure P147 is a series of pilot operated, diaphragm sensing 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 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.

MAIN FEATURES

Precise control of downstream pressure from 0,2 to 8 bar.

FDA / USP Class VI compliant seals.

Guided piston and valve stem.

Non-rising adjustment knob.

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

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: Leakage line connection (1/8").

Gauge connection on body.

Different soft sealings for liquids and gases. Top cap (adjustment screw with cover).

Dome-loaded version.

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

and other gases compatible with the construction.

Clean steam (under special request).

AVAILABLE MODELS:

P147.

SIZES: 21/2" to 3"; DN 65 to DN 80.

REGULATING

0.2 - 1.5 bar; 0.3 - 3 bar; 2 - 8 bar. RANGES:

CONNECTIONS: ASME BPE and DIN clamp ferrules. 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. INSTALLATION:

- Installation and maintenance

instructions.





LIMITING CONDITIONS	
Valve model	P147
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 – GROUP 2 (PED – European Directive)								
PN 16	Category							
21/2" to 3" - DN 65 to 80	1 (CE marked)							



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

IS P147.10 E 05.18







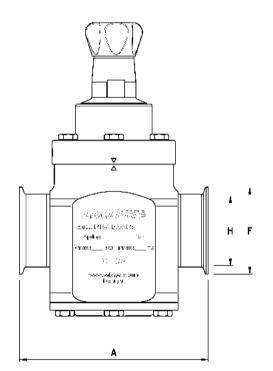
	FLOW RATE COEFFICIENTS (m³/h)										
	ВІ	PE	DIN								
SIZE	21/2"	3"	DN 65	DN 80							
Kvs	41	46	41 46								

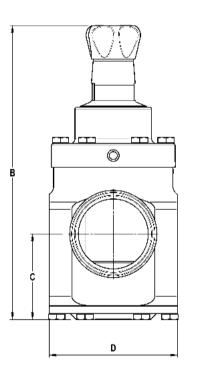
	DIMENSIONS (mm) ASME BPE									
SIZE	Α	В	С	D	F	н	WEIGHT (kg) *			
21/2"	197	307	89	134	91	66	17,1			
3"	197	307	89	134	106	81	16,8			

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

DIMENSIONS (mm) DIN									
SIZE	Α	В	С	D	F	Н	WEIGHT (kg) *		
DN 65	196	307	89	134	91	66	17,1		
DN 80	196	307	89	134	106	81	17,4		

^{*} Valves with nylon adjustment knob weigh 0,3 kg less. Remark: Clamp ferrules according to DIN 32676-A.





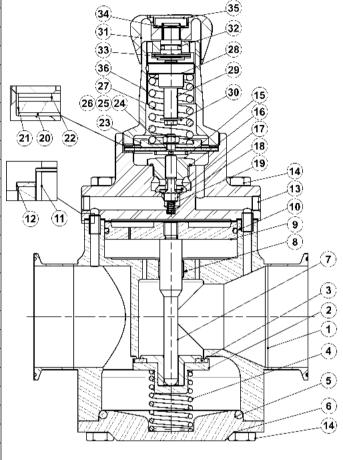
VALSTEAM ADCA







POS. N° DESIGNATION MATERIAL 1 Valve body AISI 316L / 1.4404 2 * Plug AISI 316L / 1.4404 3 * Plug seal EPDM; TFM 1600 ** 4 * Main valve spring AISI 316 / 1.4401 5 * O-ring EPDM 6 Bottom cover AISI 316L / 1.4404 7 * Stem AISI 316L / 1.4404 8 * Plain bearing PTFE 9 Piston AISI 316L / 1.4404 10 * O-ring EPDM 11 Positioning pipe AISI 316L / 1.4404 12 Gasket PTFE 13 Pilot valve body AISI 316L / 1.4404 14 Bolts AISI 306L / 1.4404 15 Seat AISI 316L / 1.4404 16 * O-ring EPDM 17 * Pilot valve seat EPDM 18 * Pilot valve spring AISI 316L / 1.4404 19 * Valve spring AISI 316L / 1.4401 20 * Lower diaphragm		MATERI	ALS
2 * Plug seal EPDM; TFM 1600 ** 4 * Main valve spring AISI 316 / 1.4401 5 * O-ring EPDM 6 Bottom cover AISI 316L / 1.4404 7 * Stem AISI 316L / 1.4404 8 * Plain bearing PTFE 9 Piston AISI 316L / 1.4404 10 * O-ring EPDM 11 Positioning pipe AISI 316L / 1.4404 12 Gasket PTFE 13 Pilot valve body AISI 316L / 1.4404 14 Bolts AISI 316L / 1.4404 15 Seat AISI 316L / 1.4404 16 * O-ring EPDM 17 * Pilot valve seat EPDM 18 * Pilot valve plug AISI 316L / 1.4404 19 * Valve spring AISI 316L / 1.4404 20 * Lower diaphragm PTFE (Gylon) 21 * Upper diaphragm PTFE (Gylon) 22 * Washer AISI 304 / 1.4301 23 Spring plate		DESIGNATION	MATERIAL
3 * Plug seal EPDM; TFM 1600 ** 4 * Main valve spring AISI 316 / 1.4401 5 * O-ring EPDM 6 Bottom cover AISI 316L / 1.4404 7 * Stem AISI 316L / 1.4404 8 * Plain bearing PTFE 9 Piston AISI 316L / 1.4404 10 * O-ring EPDM 11 Positioning pipe AISI 316L / 1.4404 12 Gasket PTFE 13 Pilot valve body AISI 316L / 1.4404 14 Bolts AISI 304 / 1.4301 15 Seat AISI 316L / 1.4404 16 * O-ring EPDM 17 * Pilot valve seat EPDM 18 * Pilot valve plug AISI 316L / 1.4401 19 * Valve spring AISI 316 / 1.4401 electropolished 20 * Lower diaphragm PTFE (Gylon) 21 * Upper diaphragm EPDM 22 * Washer AISI 304 / 1.4301 23 Spring plat	1	Valve body	AISI 316L / 1.4404
4 * Main valve spring AISI 316 / 1.4401 5 * O-ring EPDM 6 Bottom cover AISI 316L / 1.4404 7 * Stem AISI 316L / 1.4404 8 * Plain bearing PTFE 9 Piston AISI 316L / 1.4404 10 * O-ring EPDM 11 Positioning pipe AISI 316L / 1.4404 12 Gasket PTFE 13 Pilot valve body AISI 316L / 1.4404 14 Bolts AISI 304 / 1.4301 15 Seat AISI 316L / 1.4404 16 * O-ring EPDM 17 * Pilot valve seat EPDM 18 * Pilot valve plug AISI 316L / 1.4401 19 * Valve spring AISI 316 / 1.4401 electropolished 20 * Lower diaphragm PTFE (Gylon) 21 * Upper diaphragm EPDM 22 * Washer AISI 316 / 1.4401 23 Spring plate AISI 316 / 1.4401 24 Pusher di	2	* Plug	AISI 316L / 1.4404
5 * O-ring EPDM 6 Bottom cover AISI 316L / 1.4404 7 * Stem AISI 316L / 1.4404 8 * Plain bearing PTFE 9 Piston AISI 316L / 1.4404 10 * O-ring EPDM 11 Positioning pipe AISI 316L / 1.4404 12 Gasket PTFE 13 Pilot valve body AISI 316L / 1.4404 14 Bolts AISI 316L / 1.4404 15 Seat AISI 316L / 1.4404 16 * O-ring EPDM 17 * Pilot valve seat EPDM 18 * Pilot valve plug AISI 316L / 1.4404 19 * Valve spring AISI 316 / 1.4401 electropolished 20 * Lower diaphragm PTFE (Gylon) 21 * Upper diaphragm EPDM 22 * Washer AISI 304 / 1.4301 23 Spring plate AISI 304 / 1.4301 24 Pusher disc AISI 304 / 1.4301 25 Washer	3	* Plug seal	EPDM; TFM 1600 **
6 Bottom cover AISI 316L / 1.4404 7 * Stem AISI 316L / 1.4404 8 * Plain bearing PTFE 9 Piston AISI 316L / 1.4404 10 * O-ring EPDM 11 Positioning pipe AISI 316L / 1.4404 12 Gasket PTFE 13 Pilot valve body AISI 316L / 1.4404 14 Bolts AISI 316L / 1.4404 15 Seat AISI 316L / 1.4404 16 * O-ring EPDM 17 * Pilot valve seat EPDM 18 * Pilot valve plug AISI 316L / 1.4404 19 * Valve spring AISI 316 / 1.4401 20 * Lower diaphragm PTFE (Gylon) 21 * Upper diaphragm EPDM 22 * Washer AISI 304 / 1.4301 23 Spring plate AISI 304 / 1.4301 24 Pusher disc AISI 304 / 1.4301 25 Washer AISI 304 / 1.4301 26 Nut <t< th=""><th>4</th><th>* Main valve spring</th><th>AISI 316 / 1.4401</th></t<>	4	* Main valve spring	AISI 316 / 1.4401
7 * Stem AISI 316L / 1.4404 8 * Plain bearing PTFE 9 Piston AISI 316L / 1.4404 10 * O-ring EPDM 11 Positioning pipe AISI 316L / 1.4404 12 Gasket PTFE 13 Pilot valve body AISI 316L / 1.4404 14 Bolts AISI 316L / 1.4404 15 Seat AISI 316L / 1.4404 16 * O-ring EPDM 17 * Pilot valve seat EPDM 18 * Pilot valve plug AISI 316L / 1.4404 19 * Valve spring AISI 316 / 1.4401 electropolished 20 * Lower diaphragm PTFE (Gylon) 21 * Upper diaphragm EPDM 22 * Washer AISI 304 / 1.4301 23 Spring plate AISI 304 / 1.4401 24 Pusher disc AISI 304 / 1.4301 25 Washer AISI 304 / 1.4301 26 Nut AISI 304 / 1.4301 27 Adjustment s	5	* O-ring	EPDM
8 * Plain bearing PTFE 9 Piston AISI 316L / 1.4404 10 * O-ring EPDM 11 Positioning pipe AISI 316L / 1.4404 12 Gasket PTFE 13 Pilot valve body AISI 316L / 1.4404 14 Bolts AISI 316L / 1.4404 15 Seat AISI 316L / 1.4404 16 * O-ring EPDM 17 * Pilot valve seat EPDM 18 * Pilot valve plug AISI 316L / 1.4404 19 * Valve spring AISI 316 / 1.4401 electropolished 20 * Lower diaphragm PTFE (Gylon) 21 * Upper diaphragm EPDM 22 * Washer AISI 304 / 1.4301 23 Spring plate AISI 304 / 1.4404 24 Pusher disc AISI 304 / 1.4301 25 Washer AISI 304 / 1.4301 26 Nut AISI 304 / 1.4301 27 Adjustment spring AISI 304 / 1.4301 28 S	6	Bottom cover	AISI 316L / 1.4404
9 Piston AISI 316L / 1.4404 10 * O-ring EPDM 11 Positioning pipe AISI 316L / 1.4404 12 Gasket PTFE 13 Pilot valve body AISI 316L / 1.4404 14 Bolts AISI 316L / 1.4404 15 Seat AISI 316L / 1.4404 16 * O-ring EPDM 17 * Pilot valve seat EPDM 18 * Pilot valve plug AISI 316L / 1.4404 19 * Valve spring AISI 316 / 1.4401 electropolished 20 * Lower diaphragm PTFE (Gylon) 21 * Upper diaphragm EPDM 22 * Washer AISI 304 / 1.4301 23 Spring plate AISI 304 / 1.4301 24 Pusher disc AISI 304 / 1.4301 25 Washer AISI 304 / 1.4301 26 Nut AISI 302 / 1.4310 27 Adjustment spring AISI 302 / 1.4310 28 Spring plate AISI 304 / 1.4301 29	7	* Stem	AISI 316L / 1.4404
10 * O-ring EPDM 11 Positioning pipe AISI 316L / 1.4404 12 Gasket PTFE 13 Pilot valve body AISI 316L / 1.4404 14 Bolts AISI 304 / 1.4301 15 Seat AISI 316L / 1.4404 16 * O-ring EPDM 17 * Pilot valve seat EPDM 18 * Pilot valve plug AISI 316L / 1.4404 19 * Valve spring AISI 316 / 1.4401 electropolished 20 * Lower diaphragm PTFE (Gylon) 21 * Upper diaphragm EPDM 22 * Washer AISI 304 / 1.4301 23 Spring plate AISI 304 / 1.4401 24 Pusher disc AISI 304 / 1.4301 25 Washer AISI 304 / 1.4301 26 Nut AISI 304 / 1.4301 27 Adjustment spring AISI 302 / 1.4310 28 Spring plate AISI 304 / 1.4301 29 Adjustment knob AISI 316L / 1.4404 or Nylon	8	* Plain bearing	PTFE
11 Positioning pipe AISI 316L / 1.4404 12 Gasket PTFE 13 Pilot valve body AISI 316L / 1.4404 14 Bolts AISI 304 / 1.4301 15 Seat AISI 316L / 1.4404 16 * O-ring EPDM 17 * Pilot valve seat EPDM 18 * Pilot valve plug AISI 316L / 1.4404 19 * Valve spring AISI 316 / 1.4401 electropolished 20 * Lower diaphragm PTFE (Gylon) 21 * Upper diaphragm EPDM 22 * Washer AISI 304 / 1.4301 23 Spring plate AISI 316 / 1.4401 24 Pusher disc AISI 316L / 1.4404 25 Washer AISI 304 / 1.4301 26 Nut AISI 304 / 1.4301 27 Adjustment spring AISI 302 / 1.4310 28 Spring plate AISI 316 / 1.4401 29 Adjustment screw Brass 30 Retaining washer AISI 316L / 1.4404 or Nylon	9	Piston	AISI 316L / 1.4404
12 Gasket PTFE 13 Pilot valve body AISI 316L / 1.4404 14 Bolts AISI 304 / 1.4301 15 Seat AISI 316L / 1.4404 16 * O-ring EPDM 17 * Pilot valve seat EPDM 18 * Pilot valve plug AISI 316L / 1.4404 19 * Valve spring AISI 316 / 1.4401 electropolished 20 * Lower diaphragm PTFE (Gylon) 21 * Upper diaphragm EPDM 22 * Washer AISI 304 / 1.4301 23 Spring plate AISI 316L / 1.4404 24 Pusher disc AISI 316L / 1.4404 25 Washer AISI 304 / 1.4301 26 Nut AISI 304 / 1.4301 27 Adjustment spring AISI 306 / 1.4401 28 Spring plate AISI 316 / 1.4401 29 Adjustment screw Brass 30 Retaining washer AISI 316L / 1.4404 or Nylon 31 Adjustment knob AISI 316L / 1.4404 or Nylon	10	* O-ring	EPDM
13 Pilot valve body AISI 316L / 1.4404 14 Bolts AISI 304 / 1.4301 15 Seat AISI 316L / 1.4404 16 * O-ring EPDM 17 * Pilot valve seat EPDM 18 * Pilot valve plug AISI 316L / 1.4404 19 * Valve spring AISI 316 / 1.4401 electropolished 20 * Lower diaphragm PTFE (Gylon) 21 * Upper diaphragm EPDM 22 * Washer AISI 304 / 1.4301 23 Spring plate AISI 316L / 1.4404 24 Pusher disc AISI 316L / 1.4404 25 Washer AISI 304 / 1.4301 26 Nut AISI 304 / 1.4301 27 Adjustment spring AISI 302 / 1.4310 28 Spring plate AISI 316 / 1.4401 29 Adjustment screw Brass 30 Retaining washer AISI 304 / 1.4301 31 Adjustment knob AISI 316L / 1.4404 or Nylon 32 O-ring NBR	11	Positioning pipe	AISI 316L / 1.4404
Bolts	12	Gasket	PTFE
15 Seat AISI 316L / 1.4404 16 * O-ring EPDM 17 * Pilot valve seat EPDM 18 * Pilot valve plug AISI 316L / 1.4404 19 * Valve spring AISI 316 / 1.4401 electropolished 20 * Lower diaphragm PTFE (Gylon) 21 * Upper diaphragm EPDM 22 * Washer AISI 304 / 1.4301 23 Spring plate AISI 316L / 1.4404 24 Pusher disc AISI 316L / 1.4404 25 Washer AISI 304 / 1.4301 26 Nut AISI 304 / 1.4301 27 Adjustment spring AISI 302 / 1.4310 28 Spring plate AISI 316 / 1.4401 29 Adjustment screw Brass 30 Retaining washer AISI 304 / 1.4301 31 Adjustment knob AISI 316L / 1.4404 or Nylon 32 O-ring NBR 33 Bearing Corrosion resistant steel 34 Shaft ring Stainless steel	13	Pilot valve body	AISI 316L / 1.4404
16 * O-ring EPDM 17 * Pilot valve seat EPDM 18 * Pilot valve plug AISI 316L / 1.4404 19 * Valve spring AISI 316 / 1.4401 electropolished 20 * Lower diaphragm PTFE (Gylon) 21 * Upper diaphragm EPDM 22 * Washer AISI 304 / 1.4301 23 Spring plate AISI 316 / 1.4401 24 Pusher disc AISI 316 / 1.4404 25 Washer AISI 304 / 1.4301 26 Nut AISI 304 / 1.4301 27 Adjustment spring AISI 302 / 1.4310 28 Spring plate AISI 316 / 1.4401 29 Adjustment screw Brass 30 Retaining washer AISI 304 / 1.4301 31 Adjustment knob AISI 316L / 1.4404 or Nylon 32 O-ring NBR 33 Bearing Corrosion resistant steel 34 Shaft ring Stainless steel 35 Cover nut Plastic	14	Bolts	AISI 304 / 1.4301
17 * Pilot valve seat EPDM 18 * Pilot valve plug AISI 316L / 1.4404 19 * Valve spring AISI 316 / 1.4401 electropolished 20 * Lower diaphragm PTFE (Gylon) 21 * Upper diaphragm EPDM 22 * Washer AISI 304 / 1.4301 23 Spring plate AISI 316 / 1.4401 24 Pusher disc AISI 316L / 1.4404 25 Washer AISI 304 / 1.4301 26 Nut AISI 304 / 1.4301 27 Adjustment spring AISI 316 / 1.4401 28 Spring plate AISI 316 / 1.4401 29 Adjustment screw Brass 30 Retaining washer AISI 304 / 1.4301 31 Adjustment knob AISI 316L / 1.4404 or Nylon 32 O-ring NBR 33 Bearing Corrosion resistant steel 34 Shaft ring Stainless steel 35 Cover nut Plastic	15	Seat	AISI 316L / 1.4404
18 * Pilot valve plug AISI 316L / 1.4404 19 * Valve spring AISI 316 / 1.4401 electropolished 20 * Lower diaphragm PTFE (Gylon) 21 * Upper diaphragm EPDM 22 * Washer AISI 304 / 1.4301 23 Spring plate AISI 316 / 1.4401 24 Pusher disc AISI 316L / 1.4404 25 Washer AISI 304 / 1.4301 26 Nut AISI 304 / 1.4301 27 Adjustment spring AISI 302 / 1.4310 28 Spring plate AISI 316 / 1.4401 29 Adjustment screw Brass 30 Retaining washer AISI 304 / 1.4301 31 Adjustment knob AISI 316L / 1.4404 or Nylon 32 O-ring NBR 33 Bearing Corrosion resistant steel 34 Shaft ring Stainless steel 35 Cover nut Plastic	16	* O-ring	EPDM
19 * Valve spring AISI 316 / 1.4401 electropolished 20 * Lower diaphragm PTFE (Gylon) 21 * Upper diaphragm EPDM 22 * Washer AISI 304 / 1.4301 23 Spring plate AISI 316 / 1.4401 24 Pusher disc AISI 316L / 1.4404 25 Washer AISI 304 / 1.4301 26 Nut AISI 304 / 1.4301 27 Adjustment spring AISI 302 / 1.4310 28 Spring plate AISI 316 / 1.4401 29 Adjustment screw Brass 30 Retaining washer AISI 304 / 1.4301 31 Adjustment knob AISI 316L / 1.4404 or Nylon 32 O-ring NBR 33 Bearing Corrosion resistant steel 34 Shaft ring Stainless steel 35 Cover nut Plastic	17	* Pilot valve seat	EPDM
20 * Lower diaphragm PTFE (Gylon) 21 * Upper diaphragm EPDM 22 * Washer AISI 304 / 1.4301 23 Spring plate AISI 316 / 1.4401 24 Pusher disc AISI 316L / 1.4404 25 Washer AISI 304 / 1.4301 26 Nut AISI 304 / 1.4301 27 Adjustment spring AISI 316 / 1.4401 28 Spring plate AISI 316 / 1.4401 29 Adjustment screw Brass 30 Retaining washer AISI 304 / 1.4301 31 Adjustment knob AISI 316L / 1.4404 or Nylon 32 O-ring NBR 33 Bearing Corrosion resistant steel 34 Shaft ring Stainless steel 35 Cover nut Plastic	18	* Pilot valve plug	AISI 316L / 1.4404
21 * Upper diaphragm EPDM 22 * Washer AISI 304 / 1.4301 23 Spring plate AISI 316 / 1.4401 24 Pusher disc AISI 316L / 1.4404 25 Washer AISI 304 / 1.4301 26 Nut AISI 304 / 1.4301 27 Adjustment spring AISI 302 / 1.4310 28 Spring plate AISI 316 / 1.4401 29 Adjustment screw Brass 30 Retaining washer AISI 304 / 1.4301 31 Adjustment knob AISI 316L / 1.4404 or Nylon 32 O-ring NBR 33 Bearing Corrosion resistant steel 34 Shaft ring Stainless steel 35 Cover nut Plastic	19	* Valve spring	AISI 316 / 1.4401 electropolished
22 * Washer AISI 304 / 1.4301 23 Spring plate AISI 316 / 1.4401 24 Pusher disc AISI 316L / 1.4404 25 Washer AISI 304 / 1.4301 26 Nut AISI 304 / 1.4301 27 Adjustment spring AISI 302 / 1.4310 28 Spring plate AISI 316 / 1.4401 29 Adjustment screw Brass 30 Retaining washer AISI 304 / 1.4301 31 Adjustment knob AISI 316L / 1.4404 or Nylon 32 O-ring NBR 33 Bearing Corrosion resistant steel 34 Shaft ring Stainless steel 35 Cover nut Plastic	20	* Lower diaphragm	PTFE (Gylon)
23 Spring plate AISI 316 / 1.4401 24 Pusher disc AISI 316L / 1.4404 25 Washer AISI 304 / 1.4301 26 Nut AISI 304 / 1.4301 27 Adjustment spring AISI 302 / 1.4310 28 Spring plate AISI 316 / 1.4401 29 Adjustment screw Brass 30 Retaining washer AISI 304 / 1.4301 31 Adjustment knob AISI 316L / 1.4404 or Nylon 32 O-ring NBR 33 Bearing Corrosion resistant steel 34 Shaft ring Stainless steel 35 Cover nut Plastic	21	* Upper diaphragm	EPDM
24 Pusher disc AISI 316L / 1.4404 25 Washer AISI 304 / 1.4301 26 Nut AISI 302 / 1.4310 27 Adjustment spring AISI 302 / 1.4310 28 Spring plate AISI 316 / 1.4401 29 Adjustment screw Brass 30 Retaining washer AISI 304 / 1.4301 31 Adjustment knob AISI 316L / 1.4404 or Nylon 32 O-ring NBR 33 Bearing Corrosion resistant steel 34 Shaft ring Stainless steel 35 Cover nut Plastic	22	* Washer	AISI 304 / 1.4301
25 Washer AISI 304 / 1.4301 26 Nut AISI 304 / 1.4301 27 Adjustment spring AISI 302 / 1.4310 28 Spring plate AISI 316 / 1.4401 29 Adjustment screw Brass 30 Retaining washer AISI 304 / 1.4301 31 Adjustment knob AISI 316L / 1.4404 or Nylon 32 O-ring NBR 33 Bearing Corrosion resistant steel 34 Shaft ring Stainless steel 35 Cover nut Plastic	23	Spring plate	AISI 316 / 1.4401
26 Nut AISI 304 / 1.4301 27 Adjustment spring AISI 302 / 1.4310 28 Spring plate AISI 316 / 1.4401 29 Adjustment screw Brass 30 Retaining washer AISI 304 / 1.4301 31 Adjustment knob AISI 316L / 1.4404 or Nylon 32 O-ring NBR 33 Bearing Corrosion resistant steel 34 Shaft ring Stainless steel 35 Cover nut Plastic	24	Pusher disc	AISI 316L / 1.4404
Adjustment spring AISI 302 / 1.4310 Retaining washer AISI 316 / 1.4401 Adjustment screw Brass AISI 304 / 1.4301 Adjustment knob AISI 316L / 1.4404 or Nylon Corrosion resistant steel Shaft ring Stainless steel Cover nut Plastic	25	Washer	AISI 304 / 1.4301
28 Spring plate AISI 316 / 1.4401 29 Adjustment screw Brass 30 Retaining washer AISI 304 / 1.4301 31 Adjustment knob AISI 316L / 1.4404 or Nylon 32 O-ring NBR 33 Bearing Corrosion resistant steel 34 Shaft ring Stainless steel 35 Cover nut Plastic	26	Nut	AISI 304 / 1.4301
29 Adjustment screw Brass 30 Retaining washer AISI 304 / 1.4301 31 Adjustment knob AISI 316L / 1.4404 or Nylon 32 O-ring NBR 33 Bearing Corrosion resistant steel 34 Shaft ring Stainless steel 35 Cover nut Plastic	27	Adjustment spring	AISI 302 / 1.4310
30 Retaining washer AISI 304 / 1.4301 31 Adjustment knob AISI 316L / 1.4404 or Nylon 32 O-ring NBR 33 Bearing Corrosion resistant steel 34 Shaft ring Stainless steel 35 Cover nut Plastic	28	Spring plate	AISI 316 / 1.4401
31 Adjustment knob AISI 316L / 1.4404 or Nylon 32 O-ring NBR 33 Bearing Corrosion resistant steel 34 Shaft ring Stainless steel 35 Cover nut Plastic	29	Adjustment screw	Brass
32 O-ring NBR 33 Bearing Corrosion resistant steel 34 Shaft ring Stainless steel 35 Cover nut Plastic	30	Retaining washer	AISI 304 / 1.4301
33 Bearing Corrosion resistant steel 34 Shaft ring Stainless steel 35 Cover nut Plastic	31	Adjustment knob	AISI 316L / 1.4404 or Nylon
34 Shaft ring Stainless steel 35 Cover nut Plastic	32	O-ring	NBR
35 Cover nut Plastic	33	Bearing	Corrosion resistant steel
	34	Shaft ring	Stainless steel
36 Spring cover AISI 316L / 1.4404	35	Cover nut	Plastic
	36	Spring cover	AISI 316L / 1.4404









ORDERING CODES P147												
Valve model	P47	1	6	Е	М	ī	Х	Х	Х	DI	65	Ī
P147 – AISI 316L / 1.4404 pilot operated pressure reducing valve	P47	<u>'</u>	0	_	IVI	•	<u> </u>	^	^	וט	03	╁
Regulating range	F 47											
0,2 to 8 bar (dome loaded)		Α										
0.2 to 1.5 bar		1										
0,3 to 3 bar		2										
2 to 8 bar		3										
Flow rate coefficient			İ									
Kvs 41			6									
Kvs 46			7									
Diaphragm												
PTFE (Gylon)				Т								
EPDM (non-standard)				Е								
Seat material												
Metal to metal (non-standard)					M							
EPDM					Е							
TFM 1600					Т							
Adjustment knob, top cap and leakage line connection												
Stainless steel adjustment knob						1						
Stainless steel adjustment knob w/ diaphragm cover leakage connection in case of diaphra	gm failu	ıre				L						
Nylon adjustment knob						Р						
Nylon adjustment knob w/ diaphragm cover leakage connection in case of diaphragm failur	e					N						
Top cap (adjustment screw with cover)						T						
Top cap (adjustment screw with cover) w/ diaphragm cover leakage connection in case of c	liaphrag	ım fa	ilure			U						
Gauge port options							L.,					
Without gauge ports							X					
1 3 3 1						7	-					
Tri-clamp gauge port on the right side (rel. to the flow direction) – downstream pressure – 1 connection						9	1					
Tri-clamp gauge port on the left side (rel. to the flow direction) – upstream and downstream Tri-clamp gauge port on the right side (rel. to the flow direct.) – upstream and downstream							8	-				
Tri-clamp gauge port on both sides – downstream pressure – 2 connections	JI 633. –	2 00	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	a)			5	1				
Threaded gauge port on the left side (rel. to the flow direction) – downstream pressure – IS	0 7 Rn	1/4"					4	1				
Threaded gauge port on the right side (rel. to the flow direction) – downstream pressure – I			,,				3	1				
Threaded gauge port on left side (rel. to the flow direction) – upstream and downstream pre				SO 7	7 Rp	1/4"		i				
Threaded gauge port on right side (rel. to the flow direction) – upstream/downstream press							0					
Threaded gauge port on both sides – downstream pressure – ISO 7 Rp 1/4"							2					
Threaded gauge port on the left side (rel. to the flow direction) – downstream pressure – 1/-	4" NPT						W					
Threaded gauge port on the right side (rel. to the flow direction) – downstream pressure – 1		Γ					Υ					
Threaded gauge port on left side (rel. to the flow direction) – upstream and downstream pre	ess. – 2	conr	ı. – 1	/4" N	NPT		U	1				
Threaded gauge port on right side (rel. to the flow direction) – upstream and downstream p	ressure	-20	conn	. – 1	/4" N	IPT	٧					
Threaded gauge port on both sides – downstream pressure – 1/4" NPT							Z					
Surface finish b)												
Standard surface finish								Х				
Mirror mechanical polished external surfaces (SF1)								Р				
Electropolished internal wetted parts (SF5)								Е				
Special features												
None									Х			
Degreased for oxygen									0			
Bottom cover with drain connection									D			
Pipe connection												
Clamp ferrule ASME BPE										D	-	
Clamp ferrule DIN (DIN 32676-A)										F	-	
Tube weld (ETO) according to ASME BPE										DI	-	
Tube weld (ETO) according to DIN 11866-A (DIN 11850-2)										FI	-	
Size												-
21/2" or DN 65											65	-
3" or DN 80											80	-
Special valves / Extras												+
Full description or additional codes have to be added in case of non-standard combination												L

a) Under special request and after approval of technical solution; b) Consult IS PV20.00 for further details and other surface finish options.



^{*} 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.









SANITARY PRESSURE REDUCING VALVE P160G

DESCRIPTION

The ADCAPure P160G is a series of angle design direct acting diaphragm sensing pressure reducing valves.

These regulators are designed for use with clean steam, compressed air, water and other gases or liquids compatible with the construction materials and valve design.

MAIN FEATURES

FDA / USP Class VI compliant seals.

Completely machined from bar stock material, no castings or forgings are used.

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: Leakage line connection (1/4").

Different soft sealings for liquids and gases. Lock system, allows inline clean-in-place (CIP) and sterilization-in-place (SIP) operations.

Gauge connection on body. Lifting lugs to ease installation.

USE: Clean steam, compressed air, water and

other gases and liquids compatible with the

construction.

AVAILABLE

P160G. MODELS:

SIZES: 21/2" and 3".

REGULATING

RANGES: 1 to 1,7 bar; 1,5 to 4 bar.

CONNECTIONS: ASME BPE clamp ferrules.

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. Vertical inlet and

horizontal outlet angle connection.

See IMI - Installation and maintenance

instructions.





LIMITING CONDITIONS							
Valve model	P160G						
Body design conditions	PN 16						
Maximum upstream pressure	8 bar						
Maximum downstream pressure	4 bar						
Minimum downstream pressure *	1 bar						
Maximum operating temperature **	180 ℃						

For tight shut off, with adjustment spring relaxed, ensure a minimum downstream pressure of 0,2 bar. ** With PTFE diaphragm and seals. Consult the

manufacturer in case of other materials.

CE MARKING (PED – Europe	
PN 16	Category
21/2" to 3"	1 (CE Marked)



LIMITING CONDITIONS											
Valve model	P160G										
Body design conditions	PN 16										
Maximum upstream pressure	8 bar										
Maximum downstream pressure	4 bar										
Minimum downstream pressure *	1 bar										
Maximum operating temperature **	180 °C										



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

IS P160.30 E 15.16



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ISO 9001

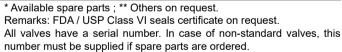


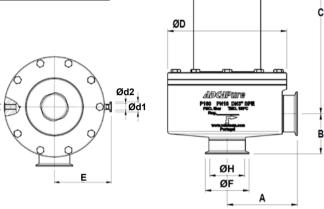


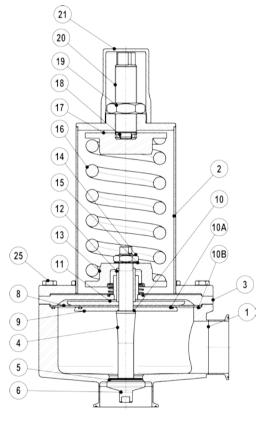
	DIMENSIONS (mm) ASME BPE														
SIZE A B C D d1 d2 d3 E F H WGT.															
21/2"	144	78	410	245	25	15,75	1/4"	141	77,4	60,2	34,6				
3"	144	84	417	245	25	15,75	1/4"	141	90.9	72,9	36,2				

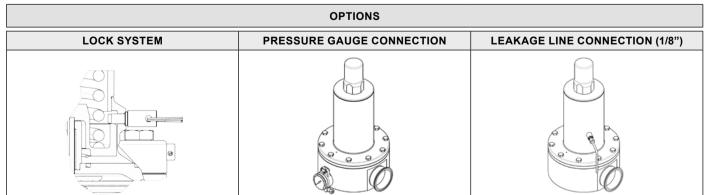
	FLOW RATE COEFFICIENTS (m³/h)												
SIZE	21/2"	3"											
Kvs	19	9,8											

	MATERIA	LS
POS.	DESIGNATION	MATERIAL
1	Valve body	AISI 316L / 1.4404
2	Cover	AISI 316L / 1.4404
3	Centering plate	AISI 316L / 1.4404
4	* Valve stem	AISI 316L / 1.4404
5	* Soft plug	** EPDM; PTFE; FPM
6	* Valve plug	AISI 316L / 1.4404
8	* Diaphragm	PTFE (Gylon)
9	Diaphragm plate	AISI 316L / 1.4404
10	* O-ring	EPDM
11	* O-ring	EPDM
12	* O-ring	EPDM
11	Diaphragm plate	AISI 316L / 1.4404
12	Stem guide	AISI 316 / 1.4401
13	Spring plate	AISI 316 / 1.4401
14	Nut	Stainless steel A2-70
15	Washer	AISI 316 / 1.4401
16	* Adjustment spring	Zinc plated spring steel
17	Top spring plate	AISI 316 / 1.4401
18	Bearing	Corrosion resistant steel
19	Nut	Stainless steel A2-70
20	Adjustment screw	AISI 304 / 1.4301
21	Тор сар	AISI 316L / 1.4404
25	Bolts	Stainless steel A2-70

















ORDERING CODE	S P160G											
Valve model	P16G	8	9	Т	М	Т	Х	х	Х	DI	65	Е
P160G – AISI 316L / 1.4404 diaphragm sensing pressure reducing valve	P16G											
Regulating range	1											
1 to 1,7 bar		8	1									
1,5 to 4 bar		9	1									
Flow rate coefficient												
Kvs 19,8			9									
Diaphragm												
PTFE (Gylon)				Т								
EPDM (non-standard)				Е								
Valve head												
Metal to metal (non-standard)					M							
EPDM					E							
PTFE					Т							
FPM / Viton (FDA approval only)					٧							
Top cap and leakage line connection												
Top cap (adjustment screw with cover)						Т						
Top cap (adjustment screw with cover) w/ diaphragm cover leakage connection	n in case of o	diaphr	agm	failur	е	U						
Gauge port options												
Without gauge ports							X					
Tri-clamp gauge port on the left side (rel. to the flow direction) – downstream	oressure						7					
Tri-clamp gauge port on the right side (rel. to the flow direction) – downstream	pressure						6					
Tri-clamp gauge port on both sides – downstream pressure							5					
Threaded gauge port on the left side (rel. to the flow direction) – downstream			-				4					
Threaded gauge port on the right side (rel. to the flow direction) – downstream	n pressure – I	SO 7	Rp 1	/4"			3					
Threaded gauge port on both sides – downstream pressure – ISO 7 Rp 1/4"							2					
Threaded gauge port on the left side (rel. to the flow direction) – downstream	-						W					
Threaded gauge port on the right side (rel. to the flow direction) – downstream	n pressure – 1	1/4″ N	РΙ				Υ –					
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) Electropolished internal wetted parts (SF5)								E				
Special features								-	ł			
None									X			
Degreased for oxygen									0			
CIP / SIP lock system									С			
Pipe connections									_			
Clamp ferrule ASME BPE										D		
Tube weld (ETO) according to ASME BPE					-				-	DI		
Size												
21/2"											65	
3"											80	
Special valves / E	xtras											
Full description or additional codes have to be added in case of a non-standal	rd combinatio	n										Е

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





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

IS P160.30 E 15.16









SANITARY PRESSURE REDUCING VALVE P161

DESCRIPTION

The ADCAPure P161 is a series of angle design direct acting diaphragm sensing pressure reducing valves.

These regulators, available with spring or dome-loading, are designed for use with clean steam, compressed air, water and other gases or liquids compatible with the construction materials and valve design.

MAIN FEATURES

Spring or dome-loaded. Non-rising adjustment knob. Compact design with clamped body. Available with low pressure diaphragm. FDA / USP Class VI compliant seals.

Completely machined from bar stock material, no castings or forgings

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: Leakage line connection (1/4").

Different soft sealings for liquids and gases. Lock system, allows inline clean-in-place (CIP) and sterilization-in-place (SIP) operations.

Gauge connection on body.

Top cap (adjustment screw with cover).

Dome-loaded version.

USE: Clean steam, compressed air, water and

other gases and liquids compatible with the

construction.

AVAILABLE

MODELS: P161.

SIZES: 1/2" to 2"; DN 15 to 50.

REGULATING

RANGES: 0,3 to 1,1 bar; 0,8 to 1,5 bar; 1 to 3 bar; 1,5 to 5 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. Vertical inlet and

horizontal outlet. See IMI - Installation and

maintenance instructions.





LIMITING CONDITIONS											
alve model	P161										
ody design conditions	PN 16										
laximum upstream pressure	8 bar										
Maximum downstream pressure	5 bar										
finimum downstream pressure *	0,3 bar										
Maximum operating temperature **	180 °C										

* For tight shut off, with adjustment spring relaxed, ensure a minimum downstream pressure of 0,2 bar. ** With PTFE diaphragm and seals. Consult the manufacturer in case of other materials.

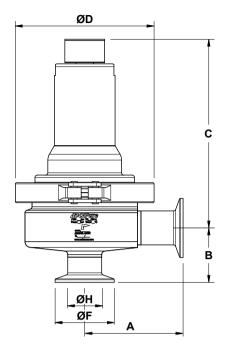
CE MARKING – GROUP 2 (PED – European Directive)										
PN 16	Category									
1/2" to 2" – DN 15 to 50	SEP									

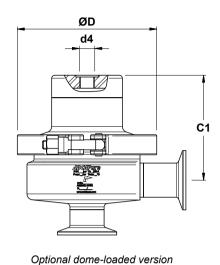


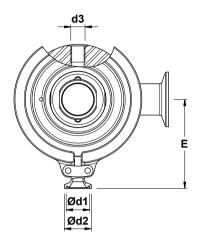












Optional pressure gauge connections

	DIMENSIONS (mm) ASME BPE																			
	REGULATING RANGES 0,8 to 1,5 bar, 1 to 3 bar and 1,5 to 5 bar															REGULATING RANGE 0,3 to 1,1 bar				
SIZE	Α	В	С	C1	D	d1	d2	d3 *	d4 *	E	F	Н	WGT. (kg)	Α	D	E	WGT. (kg)			
1/2"	77	53	156	84	119	15,75	25	1/4"	1/4"	83	25	9,4	4,1	85	134	91	4,9			
3/4"	77	56	160	88	119	15,75	25	1/4"	1/4"	83	25	15,75	4,4	85	134	91	5,1			
1"	77	52	163	91	119	15,75	25	1/4"	1/4"	83	50,5	22,1	4,6	85	134	91	5,4			
11/2"	85	61	204	124	134	15,75	25	1/4"	1/4"	96	50,5	34,8	8	101	170	109	11,1			
2"	85	67	207	127	134	15,75	25	1/4"	1/4"	96	64	47,5	8,6	101	170	109	12			

							DIM	ENSION	IS (mm)	DIN									
	REGULATING RANGES 0,8 to 1,5 bar, 1 to 3 bar and 1,5 to 5 bar															REGULATING RANGE 0,3 to 1,1 bar			
SIZE	Α	В	С	C1	D	d1	d2	d3 *	d4 *	E	F	Н	WGT. (kg)	Α	D	E	WGT. (kg)		
DN 15	77	45	160	88	119	15,75	25	1/4"	1/4"	83	34	16	4,4	85	134	91	5,1		
DN 20	77	40	158	86	119	15,75	25	1/4"	1/4"	83	34	20	4,3	85	134	91	4,9		
DN 25	84	47	161	89	119	15,75	25	1/4"	1/4"	83	50,5	26	4,6	92	134	91	5,3		
DN 32	84	50	163	91	119	15,75	25	1/4"	1/4"	83	50,5	32	4,8	84	134	83	5,5		
DN 40	93	69	202	122	134	15,75	25	1/4"	1/4"	96	50,5	38	8	109	170	109	11		
DN 50	93	75	206	126	134	15,75	25	1/4"	1/4"	96	64	50	8,6	109	170	109	12		

Remarks: Clamp ferrules according to DIN 32676-A; To	Tube weld (ETO) according to DIN 11866-A (DIN 11850-2).
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	DIMENSIONS (mm) ISO																			
	REGULATING RANGES 0,8 to 1,5 bar, 1 to 3 bar and 1,5 to 5 bar															REGULATING RANGE 0,3 to 1,1 bar				
SIZE	Α	В	С	C1	D	d1	d2	d3 *	d4 *	E	F	Н	WGT. (kg)	Α	WGT. (kg)					
DN 15	84	43	159	87	119	15,75	25	1/4"	1/4"	83	50,5	18,1	4,4	92	134	91	5,1			
DN 20	84	46	162	90	119	15,75	25	1/4"	1/4"	83	50,5	23,7	4,6	92	134	91	5,4			
DN 25	84	49	164	92	119	15,75	25	1/4"	1/4"	83	50,5	29,7	4,8	92	134	91	5,6			
DN 32	93	70	202	122	134	15,75	25	1/4"	1/4"	96	64	38,4	8,2	109	170	109	11,3			
DN 40	93	75	206	126	134	15,75	25	1/4"	1/4"	96	64	44,3	8,8	109	170	109	12,1			

Remarks: Clamp ferrules according to DIN 32676-B; Tube weld (ETO) according to DIN 11866-B (ISO 1127).

^{*} As standard, connections d3 and d4 are female threaded ISO 7 Rp.









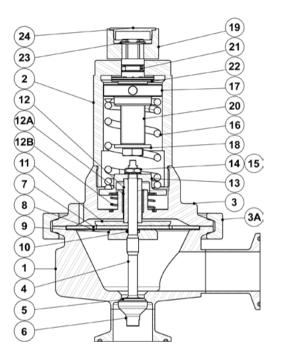
	FLOW RATE COEFFICIENTS (m³/h)																	
	ASME BPE							DIN ISO										
SIZE	SIZE 1/2" 3/4" 1" 11/2" 2"					,,	DN 15	DN 20	DN 25	DN 32	DN 40	DN	50	DN 15	DN 20	DN 25	DN 32	DN 40
Kvs	1,3	3	4,2	7	7	13	2,1	3	4,2	4,2	7	7	13	2,1	4,2	4,2	7	7

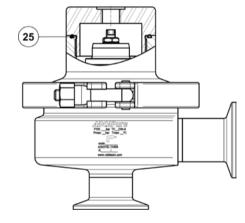
	MATERIALS									
POS.	DESIGNATION	MATERIAL								
1	Valve body	AISI 316L / 1.4404								
2	Cover	AISI 316L / 1.4404								
3	Intermediate flange	AISI 316L / 1.4404								
3A	Clamp	AISI 316 / 1.4401								
4	* Valve stem	AISI 316L / 1.4404								
5	* Soft plug	** EPDM; PTFE; FPM								
6	* Valve plug	AISI 316L / 1.4404								
7	* Upper diaphragm	EPDM								
8	* Lower diaphragm	PTFE (Gylon)								
9	Diaphragm plate	AISI 316L / 1.4404								
10	* O-ring	EPDM								
11	Diaphragm plate	AISI 316L / 1.4404								
12	Stem guide	AISI 316L / 1.4404								
12A	Plain bearing	Bronze								
12B	Spring	AISI 302 / 1.4300								
13	Spring plate	AISI 316L / 1.4404								
14	Nut	AISI 304 / 1.4301								
15	Washer	AISI 304 / 1.4301								
16	* Adjustment spring	AISI 302 / 1.4300								
17	Top spring plate	AISI 316L / 1.4404								
18	Retaining washer	Stainless steel A2-70								
19	Adjustment nut	AISI 316L / 1.4404								
20	Adjustment screw	Brass								
21	O-ring	NBR								
22	Bearing	Corrosion resistant steel								
23	Shaft ring	Stainless steel								
24	Cover nut	Plastic								
25	* O-ring	EPDM								
* Available spare parts: ** Others on request.										

^{*} 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.





Optional dome-loaded version (1/4")

OPTIONS												
LOCK SYSTEM	ADJUSTMENT SCREW WITH TOP CAP	PRESSURE GAUGE CONNECTION	LEAKAGE LINE CONNECTION									

VALSTEAM ADCA

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

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

IS P161.015 E 05.21







ORDERING CODES P	161					_							
Valve model	P16	1	3	1	Т	М	I	Х	Х	Х	DI	15	
P161 – AISI 316L / 1.4404 diaphragm sensing pressure reducing valve	P16												Г
Valve series													
Series 1 1 Regulating range													
0,3 to 1,1 bar			3										
0,8 to 1,5 bar 4													
1 to 3 bar 5													Ì
1,5 to 5 bar 6													
,8 to 5 bar (dome-loaded) a)			Α										
1,3 to 1,1 bar (dome-loaded) a)			В										
Flow rate coefficient				_									
(vs 1,3 (only applicable to ASME BPE 1/2" size) (vs 2,1 (applicable to sizes DIN DN 15 and ISO DN 15)				2									
(vs 3 (applicable to sizes ASME BPE 3/4" and DIN DN 20)				3									
(vs 4,2 (applicable to sizes ASME BPE 1", DIN DN 25 to DN 32 and ISO DN 20 to	DN 25)			4									
(vs 7 (applicable to sizes ASME BPE 11/2" to 2", DIN DN 40 to DN 50 and ISO DN		V 40)		6	i i								Ì
(vs 13 (applicable to sizes ASME BPE 2" and DIN DN 50)				8									
Diaphragm					\sqcup								
PTFE (Gylon)					T								
EPDM (non-standard) Seat material b)					E								
Metal to metal (non-standard, except in ASME BPE 1/2" size)						М							
EPDM						E							
TFE						T							
PM / Viton (FDA approval only)						٧							
Adjustment knob, top cap and leakage line connect	tion												
Stainless steel adjustment knob							<u> </u>						
Top cap (adjustment screw with cover) Stainless steel adjustment knob w/ diaphragm cover leakage connection in case of diaphragm failure													
Stainless steel adjustment knob w/ diaphragm cover leakage connection in case of diaphragm failure L Top cap (adjustment screw with cover) w/ diaphragm cover leakage connection in case of diaphragm failure U													
Dome-loaded top c)	450 OI 4	арти	agiii	ullul			X	i					
Gauge port options													
Vithout gauge ports								Х]				
ri-clamp gauge port on the left side (rel. to the flow direction) – downstream pressu								7	1				
ri-clamp gauge port on the right side (rel. to the flow direction) – downstream press	sure							6	-				
ri-clamp gauge port on both sides – downstream pressure hreaded gauge port on the left side (rel. to the flow direction) – downstream pressi	uro 190) 7 D	n 1/4	,,				5 4	1				
hreaded gauge port on the right side (ref. to the flow direction) – downstream pres								3	1				
Threaded gauge port on both sides – downstream pressure – ISO 7 Rp 1/4"	Suic - ic	00 1	1 (P 1/		-			2	1				
hreaded gauge port on the left side (rel. to the flow direction) – downstream pressi	ure – 1/4	" NP	Т					W	1				
hreaded gauge port on the right side (rel. to the flow direction) – downstream pres	sure – 1	/4" NI	PT					Υ					
hreaded gauge port on both sides – downstream pressure – 1/4" NPT								Z					
Surface finish d)									V				
Standard surface finish Mirror mechanical polished external surfaces (SF1)									X P				
Electropolished internal wetted parts (SF5)									E				
Special features									_				
None										Х			
Degreased for oxygen										0]		
CIP / SIP lock system										С			
Pipe connections											_		
Clamp ferrule ASME BPE											D		
Clamp ferrule DIN (DIN 32676-A) Clamp ferrule ISO (DIN 32676-B)											F		
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													
/2" or DN 15												15	
8/4" or DN 20												20	
" or DN 25												25	-
DN 32 1/2" or DN 40												32 40	
" or DN 50												50	
													1
Special valves / Extras													

a) The loading control pressure can be up to a maximum of 0,2 bar above the required downstream pressure; b) ASME BPE 1/2" size is only available with metal to metal sealing; c) Must be chosen in case of dome-loaded version; d) Consult IS PV20.00 – Technical information – for further details and other surface finish options.



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

IS P161.015 E 05.21









SANITARY PRESSURE REDUCING VALVE P163

DESCRIPTION

The ADCAPure P163 is a series of inline direct acting, diaphragm sensing pressure reducing valves.

These regulators, available with spring or dome-loading, are designed for use with clean steam, compressed air, water and other gases or liquids compatible with the construction materials and valve design.

MAIN FEATURES

Spring or dome-loaded.

Non-rising adjustment knob.

Compact inline design with clamped body.

FDA / USP Class VI compliant seals.

Completely machined from bar stock material, no castings or forgings are used.

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: Leakage line connection (1/4").

Different soft sealings for liquids and gases. Lock system, allows inline clean-in-place (CIP) and sterilization-in-place (SIP) operations.

Gauge connection on body.

Top cap (adjustment screw with cover).

Bottom cover with drain connection.

Dome-loaded version.

USE: Clean steam, compressed air, water and

other gases and liquids compatible with the

construction.

AVAILABLE

MODELS: P163.

SIZES: 1/2" to 2"; DN 15 to 50.

REGULATING

RANGES: 0,8 to 1,5 bar; 1 to 3 bar; 1,5 to 5 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. See IMI – Installation and

maintenance instructions.





P163
PN 16
8 bar
5 bar
0,8 bar
180 °C

* For tight shut off, with adjustment spring relaxed, ensure a minimum downstream pressure of 0,2 bar.

** With PTFE diaphragm and seals. Consult the manufacturer in case of other elastomer materials.

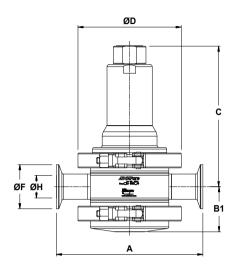
CE MARKING (PED – Europea									
PN 16	Category								
1/2" to 2" – DN 15 to 50 SEP									

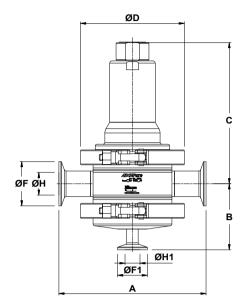


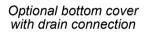


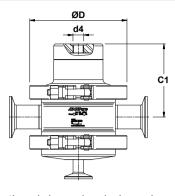




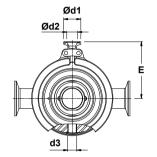








Optional dome-loaded version



Optional pressure gauge connections

	DIMENSIONS (mm) ASME BPE															
SIZE	Α	В	B1	С	C1	ØD	Ød1	Ød2	d3 *	d4 *	E	ØF	ØН	ØF1	ØH1	WGT. (kg)
1/2"	153	70	47	156	84	119	25	15,75	1/4"	1/4"	83	25	9,4	25	9,4	5
3/4"	153	74	51	160	88	119	25	15,75	1/4"	1/4"	83	25	15,75	25	9,4	5,6
1"	153	77	54	163	91	119	25	15,75	1/4"	1/4"	83	50,5	22,1	25	9,4	5,7
11/2"	170	95	71	204	124	134	25	15,75	1/4"	1/4"	96	50,5	34,8	25	9,4	9,8
2"	170	99	74	207	127	134	25	15,75	1/4"	1/4"	96	64	47,5	25	9,4	9,8

	DIMENSIONS (mm) DIN															
SIZE	Α	В	B1	С	C1	ØD	Ød1	Ød2	d3 *	d4 *	E	ØF	ØН	ØF1	ØH1	WGT. (kg)
DN 15	153	74	51	160	88	119	25	15,75	1/4"	1/4"	83	34	16	34	10	5,6
DN 20	153	72	49	158	86	119	25	15,75	1/4"	1/4"	83	34	20	34	10	5,3
DN 25	168	75	52	161	89	119	25	15,75	1/4"	1/4"	83	50,5	26	34	10	5,6
DN 32	168	77	54	163	91	119	25	15,75	1/4"	1/4"	83	50,5	32	34	10	5,8
DN 40	185	94	70	202	122	134	25	15,75	1/4"	1/4"	96	50,5	38	34	10	9,5
DN 50	185	98	74	206	126	134	25	15,75	1/4"	1/4"	96	64	50	34	10	9,8
Domorko. (Permarke: Clamp formulae according to DIN 22676 A: Tube wold (ETO) according to DIN 11966 A (DIN 11960 2)															

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	B1	С	C1	ØD	Ød1	Ød2	d3 *	d4 *	Е	ØF	ØН	ØF1	ØH1	WGT. (kg)
DN 15	168	73	50	159	87	119	25	15,75	1/4"	1/4"	83	50,5	18,1	25	10,3	5,4
DN 20	168	76	53	162	90	119	25	15,75	1/4"	1/4"	83	50,5	23,7	25	10,3	5,6
DN 25	168	78	55	164	92	119	25	15,75	1/4"	1/4"	83	50,5	29,7	25	10,3	6
DN 32	185	93	69	202	122	134	25	15,75	1/4"	1/4"	96	64	38,4	25	10,3	9,6
DN 40	185	100	76	206	126	134	25	15,75	1/4"	1/4"	96	64	44,3	25	10,3	10

Remarks: Clamp ferrules according to DIN 32676-B; Tube weld (ETO) according to DIN 11866-B (ISO 1127).

^{*} As standard, optional connections d3 and d4 are female threaded ISO 7 Rp.











	FLOW RATE COEFFICIENTS (m³/h)																
	ASME BPE					DIN						ISO					
SIZE	1/2" 3/4" 1" 11/2" 2" DN				DN 15	DN 20	DN 25	DN 32	DN 40	DN 50	DN 15	DN 20	DN 25	DN 32	DN 40		
Kvs	vs 1,3 3 4,2 7 13						3	4,2	4,2	7	13	2,1	4,2	4,2	7	7	

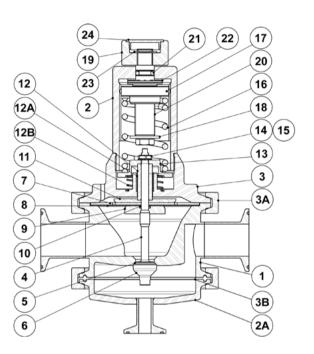
For conversion Kvs = Cv (US) x 0,865.

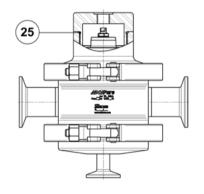
MATERIALS									
POS. Nº	DESIGNATION	MATERIAL							
1	Valve body	AISI 316L / 1.4404							
2	Cover	AISI 316L / 1.4404							
2A	Bottom cover	AISI 316L / 1.4404							
3	Intermediate flange	AISI 316L / 1.4404							
3A	Clamp	AISI 316 / 1.4401							
3B	Gasket	FKM / PTFE							
4	* Valve stem	AISI 316L / 1.4404							
5	* Soft plug	** EPDM; PTFE; FPM							
6	* Valve plug	AISI 316L / 1.4404							
7	* Upper diaphragm	EPDM							
8	* Lower diaphragm	PTFE (Gylon)							
9	Diaphragm plate	AISI 316L / 1.4404							
10	* O-ring	EPDM							
11	Diaphragm plate	AISI 316L / 1.4404							
12	Stem guide	AISI 316L / 1.4404							
12A	Plain bearing	Bronze							
12B	Spring	AISI 302 / 1.4300							
13	Spring plate	AISI 316L / 1.4404							
14	Nut	AISI 304 / 1.4301							
15	Washer	AISI 304 / 1.4301							
16	* Adjustment spring	AISI 302 / 1.4300							
17	Top spring plate	AISI 316L / 1.4404							
18	Retaining washer	Stainless steel A2-70							
19	Adjustment nut	AISI 316L / 1.4404							
20	Adjustment screw	Brass							
21	O-ring	NBR							
22	Bearing	Corrosion resistant steel							
23	Shaft ring	Stainless steel							
24	Cover nut	Plastic							
25	* O-ring	EPDM							
* Available	spare parts; ** Others on request.								

^{*} 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.





Optional dome-loaded version (1/4")

OPTIONS												
LOCK SYSTEM	ADJUSTMENT SCREW WITH TOP CAP	PRESSURE GAUGE CONNECTION	LEAKAGE LINE CONNECTION									

VALSTEAM ADCA

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

IS P163.015 E 03.21







ORDERING CODES P	163												
Valve model	P63	1	4	1	Т	М	ı	Х	Х	Х	DI	15	
P163 – AISI 316L / 1.4404 diaphragm sensing press. reducing valve without drain	P63												Г
P163 – AISI 316L / 1.4404 diaphragm sensing press. reducing valve with drain	P63D	1											l
Valve series	1 030	1											
			┨										
Series 1		1	1										
Regulating range				ļ									
0,8 to 1,5 bar			4										
1 to 3 bar			5										
1,5 to 5 bar			6	1									
0,8 to 5 bar (dome-loaded) a)			Α										
Flow rate coefficient													
Kvs 1,3 (only applicable to ASME BPE 1/2" size)				1									
Kvs 2,1 (applicable to sizes DIN DN 15 and ISO DN 15)				2]								
Kvs 3 (applicable to sizes ASME BPE 3/4" and DIN DN 20)				3									
Kvs 4,2 (applicable to sizes ASME BPE 1", DIN DN 25 to DN 32 and ISO DN 20 to	DN 25)			4									
Kvs 7 (applicable to sizes ASME BPE 11/2", DIN DN 40 and ISO DN 32 to DN 40)				6									
Kvs 13 (applicable to sizes ASME BPE 2" and DIN DN 50)				8	1								İ
Diaphragm													
PTFE (Gylon)					T								
EPDM (non-standard) Seat material b)					E								
Metal to metal (non-standard, except in ASME BPE 1/2" size)						М							
EPDM						E	l						
PTFE						Т							
FPM / Viton (FDA approval only)						v	ł						
Adjustment knob, top cap and leakage line connect	ion					<u> </u>							l
Stainless steel adjustment knob							1	1					
Top cap (adjustment screw with cover)							Ť	1					l
Stainless steel adjustment knob w/ diaphragm cover leakage connection in case of	dianhra	am f	ailure				Ŀ	1					
Top cap (adjustment screw with cover) w/ diaphragm cover leakage connection in c					ıro		U	1					
Dome-loaded top c)	ase or u	парп	iayii	I Iallu	116		X	1					
Gauge port options								1					
Without gauge ports								Х	1				
Tri-clamp gauge port on the left side (rel. to the flow direction) – downstream pressu	ıro							7	1				
Tri-clamp gauge port on the left side (rel. to the flow direction) – downstream press								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	Sure							5	-				
	10	0.71	D= 4	(41)					-				
Threaded gauge port on the left side (rel. to the flow direction) – downstream press								4	-				
Threaded gauge port on the right side (rel. to the flow direction) – downstream pres	sure – i	50 <i>i</i>	Кр	1/4				3	-				
Threaded gauge port on both sides – downstream pressure – ISO 7 Rp 1/4"								2					
Threaded gauge port on the left side (rel. to the flow direction) – downstream pressi								W					ļ
Threaded gauge port on the right side (rel. to the flow direction) – downstream pres	sure – 1	/4" N	NPT_					Υ					
Threaded gauge port on both sides – downstream pressure – 1/4" NPT								Z					
Surface finish d)									<u> </u>				
Standard surface finish	-								X				
Mirror mechanical polished external surfaces (SF1)									Р				
Electropolished internal wetted parts (SF5)									E				
Special features													
None Degreased for oxygen										O			
CIP / SIP lock system										C	1		
Pipe connections										_	i		
Clamp ferrule ASME BPE											D		Ì
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 Alone Br E Tube weld (ETO) according to DIN 11866-A (DIN 11850-2)											FI		
Tube weld (ETO) according to DIN 11866-B (ISO 1127)											EI		
Size													
1/2" or DN 15												15	1
3/4" or DN 20												20	1
1" or DN 25												25	1
DN 32												32	1
11/2" or DN 40	-						,					40	1
2" or DN 50												50	1
Special valves / Extras												30	ł
Full description or additional codes have to be added in case of a non-standard con		n											
i an accomption of additional codes have to be added in case of a non-standard con	ibirialiUl												ᆫ

a) The loading control pressure can be up to a maximum of 0,2 bar above the required downstream pressure; b) ASME BPE 1/2" size is only available with metal to metal sealing; c) Must be chosen in case of dome-loaded version; d) Consult IS PV20.00 – Technical information – for further details and other surface finish options.





IS P163.015 E 03.21









SANITARY PRESSURE REDUCING VALVE P173

DESCRIPTION

The ADCAPure P173 is a series of inline direct acting, diaphragm sensing pressure reducing valves.

These regulators, available with spring or dome-loading, are designed for use with clean steam, compressed air, water and other gases or liquids compatible with the construction materials and valve design.

MAIN FEATURES

Compact inline design.

Non-rising adjustment knob.

FDA / USP Class VI compliant seals.

Completely machined from bar stock material, no castings or forgings are used on the standard version.

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: Leakage line connection (1/8").

Different soft sealings for liquids and gases. Lock system, allows inline clean-in-place (CIP) and sterilization-in-place (SIP) operations.

Gauge connection on body.

Top cap (adjustment screw with cover). Bottom cover with drain connection.

USE: Clean steam, compressed air, water and

other gases and liquids compatible with the

construction.

AVAILABLE

MODELS: P173.

SIZES: 11/2" to 2"; DN 32 to DN 50.

REGULATING

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

See IMI – Installation and maintenance

instructions.





LIMITING CONDITIONS										
Valve model P173										
Body design conditions	PN 16									
Maximum upstream pressure	8 bar or 4 bar *									
Maximum downstream pressure	5 bar									
Minimum downstream pressure **	0,8 bar									
Maximum operating temperature ***	180 °C									
* Can "Flance makes as a #6 signate" table										

^{*} See "Flow rates coefficients" table.

^{***} With PTFE diaphragm and seals. Consult the manufacturer in case of other elastomer materials.

CE MARKING – GROUP 2 (PED – European Directive)								
Category								
SEP								



^{**} For tight shut off, with the adjustment spring relaxed, ensure a minimum 0,2 bar downstream pressure.







Optional pressure gauge connections

	FLOW RATES COEFFICIENTS (m³/h)													
		BPE DIN ISO												
SIZE	11/2"	2"	2" *	DN 40	DN 50	DN 50 *	DN 32	DN 40	DN 50					
Kvs	5,5	5,5	8,5 *	5,5	5,5	8,5 *	5,5	5,5	NA					

^{*} Limited to a maximum of 4 bar inlet pressure.

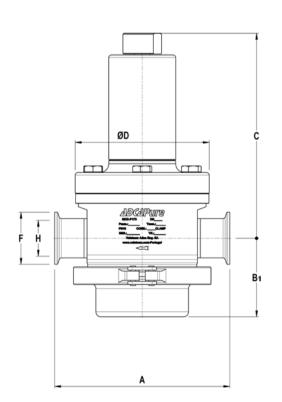
	DIMENSIONS (mm) ASME BPE													
SIZE	Α	В	B1	С	D	d1	d2	Е	F	н	NPS 1/2"		WGT.	
SIZE	_ A	В	ы		U	uı	uz		Г	П	F1	H1	(kg)	
11/2"	170	94	70	199	130	25	15,75	90	50,5	34,8	25	9,4	8,6	
2"	170	99	76	205	130	25	15,75	90	64	47,5	25 9,4		8,9	

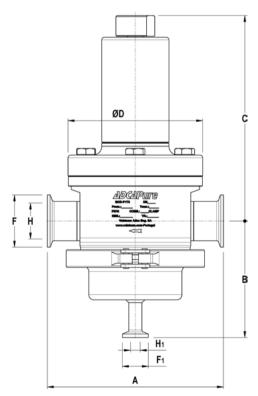
	DIMENSIONS (mm) DIN													
SIZE	Α	В	B1	С	D	d1	D d1 d2 E F H					DN	10	WGT.
SIZE	4	D	ы		ט	u i	uz		Г	П	F1	H1	(kg)	
DN 40	170	94	70	199	130	25	15,75	90	50,5	38	34	10	8,6	
DN 50	170	99	76	205	130	25	15,75	90	64	50	34	10	8,9	

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	B1	С	D	d1	d2	Е	E	н	DN	80	WGT.	
SIZE	•	ם	ы		D	uı	uz				F1	H1	(kg)	
DN 32	170	93	70	199	130	25	15,75	90	64	38,4	25	10,3	8,6	
DN 40	170	99	76	205	130	25	15,75	90	64	44,3	25	10,3	9,2	

Remarks: Clamp ferrules according to DIN 32676-B; Tube weld (ETO) according to DIN 11866-B (ISO 1127).





Optional bottom cover with drain connection



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

IS P173.20 E 12.16



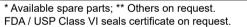
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ISO 9001

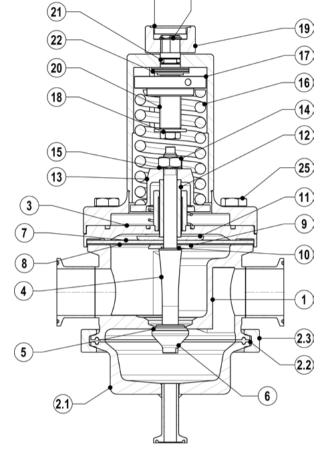




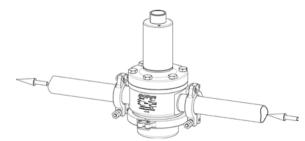
	MATERIA	LS
POS.	DESIGNATION	MATERIAL
1	Body	AISI 316L / 1.4404
2	Cover	AISI 316L / 1.4404
2.1	Bottom cover	AISI 316L / 1.4404
2.2	Gasket	PTFE / TFM® envelope gasket
2.3	Safety clamp	AISI 316 / 1.4401
3	Centering plate	AISI 316L / 1.4404
4	* Valve stem	AISI 316L / 1.4404
5	* Soft plug	** EPDM; PTFE; FPM
6	* Valve plug	AISI 316L / 1.4404
7	* Upper diaphragm	EPDM
8	* Lower diaphragm	PTFE (Gylon)
9	Diaphragm plate	AISI 316L / 1.4404
10	* O-ring	EPDM
11	Diaphragm plate	AISI 316L / 1.4404
12	Stem guide	AISI 316 / 1.4401
13	Spring plate	AISI 316 / 1.4401
14	Nut	Stainless steel A2-70
15	Washer	AISI 316 / 1.4401
16	* Adjustment spring	AISI 302 / 1.4300
17	Top spring plate	AISI 316 / 1.4401
18	Retaining washer	Stainless steel A2-70
19	Adjustment nut	AISI 316L / 1.4404
20	Adjustment screw	Brass
21	O-ring	NBR
22	Bearing	Corrosion resistant steel
23	Shaft ring	Stainless steel
24	Cover nut	Plastic
25	Bolts	Stainless steel A2-70

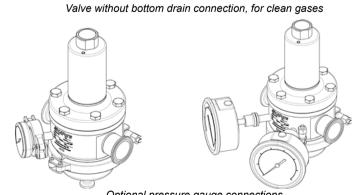


For viton diaphragm the only approval available is the FDA (pos. 7).

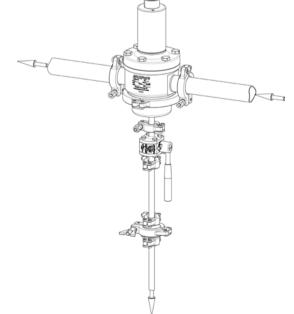


(24)





Optional pressure gauge connections



Valve with condensate drain for clean steam









ORDERING CODES P173											
Valve model	P17D	4	4	Т	М	ı	Х	Х	Х	DI	32
P173 – AISI 316L / 1.4404 diaphragm sensing pressure reducing valve with drain	P17D										
P173 – AISI 316L / 1.4404 diaphragm sensing pressure reducing valve without drain	P17	1									
Regulating range											
0,8 to 1,5 bar		4	1								
1 to 3 bar		5	1								
1.5 to 5 bar		6	1								
Flow rate coefficient		1 -	1								
Kvs 5.5			4								
Kvs 8,5 (only applicable to sizes ASME BPE 2" and DIN DN 50. Limited to a max. 4 bar is	nlet press	ure)	6								
Diaphragm	•										
PTFE (Gylon)				Т							
EPDM (non-standard)				Е							
Seat material											
Metal to metal (non-standard)					М						
EPDM					Е	i					
PTFE					Т						
FPM / Viton (FDA approval only)					v						
Adjustment knob, top cap and leakage line connection					_						
Stainless steel adjustment knob						1	1				
Top cap (adjustment screw with cover)						T	1				
Stainless steel adjustment knob w/ diaphragm cover leakage connection in case of diaph	ragm faili	ıre				L	1				
Top cap (adjustment screw with cover) w/ diaphragm cover leakage connection in case of diaphragm.			ilura			U	-				
Gauge port options	n diaprirag	111116	illule			U					
Without gauge ports							Х	-			
Tri-clamp gauge port on the left side (rel. to the flow direction) – downstream pressure –	1 connect	ion					7	-			
Tri-clamp gauge port on the right side (rel. to the flow direction) – downstream pressure -							6	1			
Tri-clamp gauge port on the left side (rel. to the flow direction) – upstream and downstrea			onn.	a)			9	1			
Tri-clamp gauge port on the right side (rel. to the flow direct.) – upstream and downstrear							8				
Tri-clamp gauge port on both sides – downstream pressure – 2 connections							5	1			
Threaded gauge port on the left side (rel. to the flow direction) – downstream pressure –	ISO 7 Rp	1/4"					4				
Threaded gauge port on the right side (rel. to the flow direction) – downstream pressure							3				
Threaded gauge port on left side (rel. to the flow direction) – upstream and downstream p											
Threaded gauge port on right side (rel. to the flow direction) – upstream/downstream pre	ssure – 2	conr	. – IS	<u> </u>	Rp	1/4"	0				
Threaded gauge port on both sides – downstream pressure – ISO 7 Rp 1/4"							2				
Threaded gauge port on the left side (rel. to the flow direction) – downstream pressure –							W				
Threaded gauge port on the right side (rel. to the flow direction) – downstream pressure							Υ	_			
Threaded gauge port on left side (rel. to the flow direction) – upstream and downstream							U	-			
Threaded gauge port on right side (rel. to the flow direction) – upstream and downstream	n pressure	- 2	conn	. – 1	/4″ N	NP I	V	-			
Threaded gauge port on both sides – downstream pressure – 1/4" NPT							Z	-			
Standard surface finish b)								X			
								P	1		
Mirror mechanical polished external surfaces (SF1)								-	-		
Electropolished internal wetted parts (SF5)								E			
Special features									v		
None									X	-	
Degreased for oxygen									0	ł	
CIP / SIP lock system									С		
Pipe connection Clamp formula ASME RDE										D	-
Clamp ferrule ASME BPE								-		F	1
Clamp ferrule DIN (DIN 32676-A)								-,		-	-
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											32
Size DN 32 (available with ISO connections only)											
DN 32 (available with ISO connections only) 11/2" or DN 40											40
Size DN 32 (available with ISO connections only)											40 50

a) Under special request and after approval of technical solution; b) Consult IS PV20.00 for further details and other surface finish options.

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

IS P173.20 E 12.16











SANITARY PRESSURE SUSTAINING VALVE PS130

DESCRIPTION

The ADCAPure PS130 is a series of direct acting, diaphragm sensing pressure sustaining valves.

These spring-loaded regulators 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.

MAIN FEATURES

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.

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: Leakage line connection (1/8").

Gauge connection on body.

Different soft sealings for liquids and gases.

Top cap (adjustment screw with cover).

Panel mounting (M45 thread).

Wall mounting.

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

argon and other gases or liquids compatible with

the construction.

AVAILABLE PS1

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 is 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 ISO													
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	Α	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.

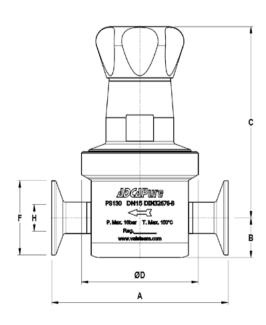
	DIMENSIONS (mm) DIN												
SIZE	Α	В	С	D	d1	d2	E	F	Н	WEIGHT (kg)			
DN 10	120	30	127	80	25	15,75	65	34	10	2,9			
DN 15	120	30	127	80	25	15,75	67,5	34	16	3			
DN 20	120	30	127	80	25	15,75	67,5	34	20	3,1			
DN 25	120	32	125	80	25	15,75	72,5	50,5	26	3,4			

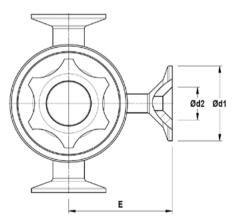
* Valves with nylon adjustment knob weigh 0,3 kg less.
Remarks: Clamp ferrules according to DIN 32676-A; Tube weld (ETO) according to DIN 11866-A (DIN 11850-2).

	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





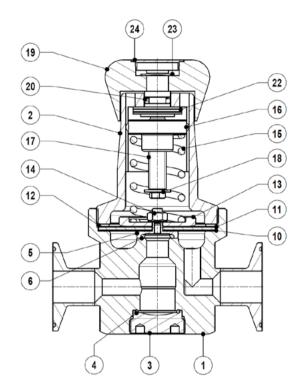


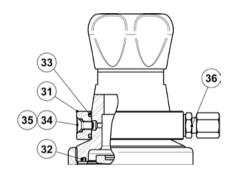
MATERIALS										
POS.	DESIGNATION	MATERIAL								
1	Valve body	AISI 316L / 1.4404								
2	Cover	AISI 316L / 1.4404								
3	Seat cover	AISI 316L / 1.4404								
4	* O-ring	Viton; EPDM								
5	* Plug	AISI 316L / 1.4404								
6	* Valve head	** EPDM; PTFE; FPM								
10	* Lower diaphragm	PTFE (Gylon)								
11	* Upper diaphragm	EPDM								
12	Washer	AISI 304 / 1.4301								
13	Plate	AISI 304 / 1.4301								
14	Nut	Stainless steel A2-70								
15	* Adjustment spring	AISI 302 / 1.4300								
16	Spring plate	AISI 316 / 1.4401								
17	Adjustment screw	Brass								
18	Retaining washer	Stainless steel A2-70								
19	Adjustment knob	AISI 316L / 1.4404 or Nylon								
20	O-ring	NBR								
22	Bearing	Corrosion resistant steel								
23	Shaft ring	Stainless steel								
24	Cover nut	Plastic								
31	Leakage line ring	AISI 316L / 1.4404								
32	* O-ring	EPDM								
33	O-ring	NBR								
34	Bolt	AISI 304 / 1.4301								
35	O-ring	Viton								
36	Compression fitting	AISI 304 / 1.4301								

^{*} Available spare parts ; ** Others on request.

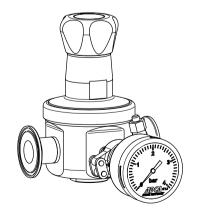
Remarks: FDA / USP Class VI seals certificate on request.

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





Optional leakage line connection (1/8")



Optional pressure gauge connection

IS PS130.20 E 11.18







ORDERING CODES P	S130												
Valve model	PS13	1	3	Т	М	Х	ı	Х	X	Х	DI	15	
PS130 – AISI 316L / 1.4404 diaphragm sensing pressure sustaining valve	PS13												Г
Regulating range													
0,2 to 1,5 bar		1											
0,3 to 3 bar		2											
2 to 8 bar		3											
Flow rate coefficient													
Kvs 1,7			3										
Kvs 3 (not applicable to sizes 1/2" ASME BPE, DIN DN 10 and ISO DN 08)			6										
Diaphragm					1								
PTFE (Gylon)				Т	1								
EPDM (non-standard)				E									
Seat material													
Metal to metal (non-standard)					М								
EPDM					E								
PTFE (TDA)					T								
FPM / Viton (FDA approval only)					V								
Leakage line connection							-						
Without leakage line connection						X	-						
With leakage line connection Adjustment knob and top cap						N	1						
•							١.	-					
Stainless steel adjustment knob Nylon adjustment knob							P						
Top cap (adjustment screw with cover)							T	1					
Gauge port options							<u>'</u>	ł					
Without gauge ports								Х	-				
Tri-clamp gauge port on the left side (rel. to the flow direction) – upstream pressure								7	1				
Tri-clamp gauge port on the right side (rel. to the flow direction) – upstream pressure.								6	1				
Tri-clamp gauge port on both sides – upstream pressure								5	-				
Threaded gauge port on the left side (rel. to the flow direction) – upstream pressur	e – ISO	7 Rp	1/4"					4	1				
Threaded gauge port on the right side (rel. to the flow direction) – upstream pressu								3	1				
Threaded gauge port on both sides – upstream pressure – ISO 7 Rp 1/4"			P ., .					2	1				
Threaded gauge port on the left side (rel. to the flow direction) – upstream pressur	e – 1/4"	NPT						w	1				
Threaded gauge port on the right side (rel. to the flow direction) – upstream pressu								Υ					
Threaded gauge port on both sides – upstream pressure – 1/4" NPT								Z	1				
Surface finish a)													
Standard surface finish									Х				
Mirror mechanical polished external surfaces (SF1)									Р				
Electropolished internal wetted parts (SF5)									Е				
Special features													
None										Х]		
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													-
D11 00												08	-
DN 08												10	-
DN 10													1
DN 10 1/2" or DN 15												15	1
DN 10 1/2" or DN 15 3/4" or DN 20												20	
DN 10 1/2" or DN 15												_	

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





IS PS130.20 E 11.18









SANITARY PRESSURE SUSTAINING VALVE PS161

DESCRIPTION

The ADCAPure PS161 is a series of angle design direct acting diaphragm sensing pressure sustaining valves.

These regulators, available with spring or dome-loading, are designed for use with clean steam, compressed air, water and other gases or liquids compatible with the construction materials and valve design.

MAIN FEATURES

Spring or dome-loaded.

Non-rising adjustment knob.

Compact design with clamped body.

Available with low pressure diaphragm.

FDA / USP Class VI compliant seals.

Completely machined from bar stock material, no castings or forgings are used.

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: Leakage line connection (1/4").

Different soft sealings for liquids and gases.

Gauge connection on body.

Top cap (adjustment screw with cover).

Dome-loaded version.

USE: Clean steam, compressed air, water and

other gases and liquids compatible with the

construction.

AVAILABLE

MODELS: PS161.

SIZES: 1/2" to 2"; DN 15 to 50.

REGULATING

RANGES: 0,8 to 1,5 bar; 1 to 3 bar; 1,5 to 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. Horizontal inlet and

vertical outlet. See IMI - Installation and

maintenance instructions.





LIMITING CONDITIONS									
/alve model PS161									
Body design conditions	PN 16								
Maximum upstream pressure	8 bar								
Minimum upstream pressure	0,8 bar								
Maximum operating temperature *	180 °C								

^{*} With PTFE diaphragm and seals. Consult the manufacturer in case of other elastomer materials.

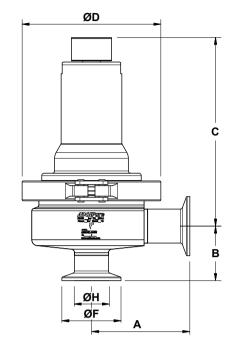
CE MARKING – GROUP 2 (PED – European Directive)								
PN 16 Category								
SEP								

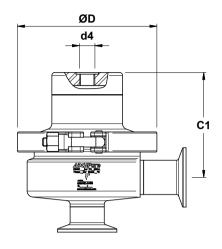


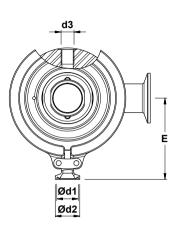












Optional dome-loaded version

Optional pressure gauge connections

	DIMENSIONS (mm) ASME BPE												
SIZE	Α	В	С	C1	ØD	Ød1	Ød2	d3 *	d4 *	E	ØF	ØН	WGT. (kg)
1/2"	77	53	156	84	119	25	15,75	1/4"	1/4"	83	25	9,4	4,1
3/4"	77	56	160	88	119	25	15,75	1/4"	1/4"	83	25	15,75	4,4
1"	77	52	163	91	119	25	15,75	1/4"	1/4"	83	50,5	22,1	4,6
11/2"	85	61	204	124	134	25	15,75	1/4"	1/4"	96	50,5	34,8	8
2"	85	67	207	127	134	25	15,75	1/4"	1/4"	96	64	47,5	8,6

	DIMENSIONS (mm) DIN												
SIZE	Α	В	С	C1	ØD	Ød1	Ød2	d3 *	d4 *	E	ØF	ØН	WGT. (kg)
DN 15	77	45	160	88	119	25	15,75	1/4"	1/4"	83	34	16	4,4
DN 20	77	40	158	86	119	25	15,75	1/4"	1/4"	83	34	20	4,3
DN 25	84	47	161	89	119	25	15,75	1/4"	1/4"	83	50,5	26	4,6
DN 32	84	50	163	91	119	25	15,75	1/4"	1/4"	83	50,5	32	4,8
DN 40	93	69	202	122	134	25	15,75	1/4"	1/4"	96	50,5	38	8
DN 50	93	75	206	126	134	25	15,75	1/4"	1/4"	96	64	50	8,6

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	C1	ØD	Ød1	Ød2	d3 *	d4 *	E	ØF	ØН	WGT. (kg)
DN 15	84	43	159	87	119	25	15,75	1/4"	1/4"	83	50,5	18,1	4,4
DN 20	84	46	162	90	119	25	15,75	1/4"	1/4"	83	50,5	23,7	4,6
DN 25	84	49	164	92	119	25	15,75	1/4"	1/4"	83	50,5	29,7	4,8
DN 32	93	70	202	122	134	25	15,75	1/4"	1/4"	96	64	38,4	8,2
DN 40	93	75	206	126	134	25	15,75	1/4"	1/4"	96	64	44,3	8,8

Remarks: Clamp ferrules according to DIN 32676-B; Tube weld (ETO) according to DIN 11866-B (ISO 1127).







	FLOW RATE COEFFICIENTS (m³/h)															
		А	SME BP	E		DIN						ISO				
SIZE	SIZE 1/2" 3/4" 1" 11/2" 2"					DN 15	DN 20	DN 25	DN 32	DN 40	DN 50	DN 15	DN 20	DN 25	DN 32	DN 40
Kvs	Kvs 1,3 3 4,2 7 13						3	4,2	4,2	7	13	2,1	4,2	4,2	7	7

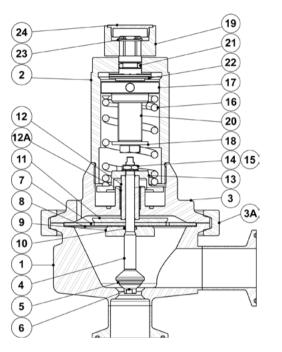
For conversion Kvs = Cv (US) x 0,865.

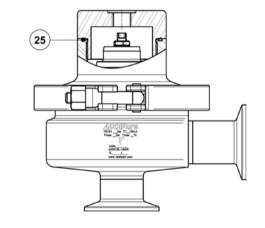
MATERIALS										
POS. Nº	DESIGNATION	MATERIAL								
1	Valve body	AISI 316L / 1.4404								
2	Cover	AISI 316L / 1.4404								
3	Intermediate flange	AISI 316L / 1.4404								
3A	Clamp	AISI 316 / 1.4401								
4	* Valve stem	AISI 316L / 1.4404								
5	* Soft plug	** EPDM; PTFE; FPM								
6	* Valve plug	AISI 316L / 1.4404								
7	* Upper diaphragm	EPDM								
8	* Lower diaphragm	PTFE (Gylon)								
9	Diaphragm plate	AISI 316L / 1.4404								
10	* O-ring	EPDM								
11	Diaphragm plate	AISI 316L / 1.4404								
12	Stem guide	AISI 316L / 1.4404								
12A	Plain bearing	Bronze								
13	Spring plate	AISI 316L / 1.4404								
14	Nut	AISI 304 / 1.4301								
15	Washer	AISI 304 / 1.4301								
16	* Adjustment spring	AISI 302 / 1.4300								
17	Top spring plate	AISI 316L / 1.4404								
18	Retaining washer	Stainless steel A2-70								
19	Adjustment nut	AISI 316L / 1.4404								
20	Adjustment screw	Brass								
21	O-ring	NBR								
22	Bearing	Corrosion resistant steel								
23	Shaft ring	Stainless steel								
24	Cover nut	Plastic								
25	* O-ring	NBR								

^{*} 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.





Optional dome-loaded version (1/4")

	OPTIONS	
ADJUSTMENT SCREW WITH TOP CAP	PRESSURE GAUGE CONNECTION	LEAKAGE LINE CONNECTION

^{*} As standard, connections d3 and d4 are female threaded ISO 7 Rp.







	S PS161											
Valve model	PS16	1	4	1	Т	M	ı	Х	Χ	Х	DI	15
PS161 – AISI 316L / 1.4404 diaphragm sensing pressure sustaining valve	PS16											
Valve series												
Series 1		1										
Regulating range												
0,8 to 1,5 bar			4									
1 to 3 bar			5									
1,5 to 8 bar			6 A									
0,8 to 8 bar (dome-loaded) a) Flow rate coefficient			A									
Kvs 1,3 (only applicable to ASME BPE 1/2" size)				1	-							
Kvs 2,1 (applicable to sizes DIN DN 15 and ISO DN 15)				2								
Kvs 3 (applicable to sizes ASME BPE 3/4" and DIN DN 20)				3								
Kvs 4,2 (applicable to sizes ASME BPE 1", DIN DN 25 to DN 32 and ISO DN 20	0 to DN 1	25)		4								
Kvs 7 (applicable to sizes ASME BPE 11/2", DIN DN 40 and ISO DN 32 to DN 4		_0)		6								
Kvs 13 (applicable to sizes ASME BPE 2" and DIN DN 50)	,			8	1							
Diaphragm					i							
PTFE (Gylon)					Т							
EPDM (non-standard)					Ē							
Seat material b)												
Metal to metal (non-standard, except in ASME BPE 1/2" size)						М						
EPDM						Е						
PTFE						Т						
FPM / Viton (FDA approval only)						٧						
Adjustment knob, top cap and leakage line conne	ection											
Stainless steel adjustment knob							ı					
Top cap (adjustment screw with cover)							Т					
Stainless steel adjustment knob w/ diaphragm cover leakage connection in case	e of diap	hrag	m fai	lure			L					
Top cap (adjustment screw with cover) w/ diaphragm cover leakage connection	in case	of dia	aphra	ıgm f	ailure	,	U					
Dome-loaded top c)							X					
Gauge port options												
Without gauge ports								Х				
Tri-clamp gauge port on the left side (rel. to the flow direction) – upstream press	sure							7				
Tri-clamp gauge port on the right side (rel. to the flow direction) – upstream pres	ssure							6				
Tri-clamp gauge port on both sides – upstream pressure								5				
Threaded gauge port on the left side (rel. to the flow direction) – upstream pres								4				
Threaded gauge port on the right side (rel. to the flow direction) – upstream pre	ssure –	ISO T	7 Rp	1/4"				3				
Threaded gauge port on both sides – upstream pressure – ISO 7 Rp 1/4"								2				
Threaded gauge port on the left side (rel. to the flow direction) – upstream pres								W				
Threaded gauge port on the right side (rel. to the flow direction) – upstream pre	ssure –	1/4"	NPT					Y				
Threaded gauge port on both sides – upstream pressure – 1/4" NPT								Z				
Standard surface finish									· ·			
Standard surface finish									X			
Mirror mechanical polished external surfaces (SF1)									<u>P</u>			
Electropolished internal wetted parts (SF5)									E			
Special features										v		
None	-									X		
Degreased for oxygen Pipe connections										0		
Clamp ferrule ASME BPE											D	
Clamp ferrule ASME BPE Clamp ferrule DIN (DIN 32676-A)											F	
, ,					-						E	
Clamb terrule ISO (DIN 32676-R)											DI	
Clamp ferrule ISO (DIN 32676-B) Tube weld (ETO) according to ASME RPE											FI	
Tube weld (ETO) according to ASME BPE											EI	
Tube weld (ETO) according to ASME BPE Tube weld (ETO) according to DIN 11866-A (DIN 11850-2)												
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)												15
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												13
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 1/2" or DN 15												20
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 1/2" or DN 15 3/4" or DN 20												20 25
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 1/2" or DN 15 3/4" or DN 20 1" or DN 25												25
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 1/2" or DN 15 3/4" or DN 20 1" or DN 25 DN 32												25 32
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 1/2" or DN 15 3/4" or DN 20 1" or DN 25 DN 32 11/2" or DN 40												25 32 40
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 1/2" or DN 15 3/4" or DN 20 1" or DN 25 DN 32	tras											25 32

a) The loading control pressure can be up to a maximum of 0,2 bar above the required upstream pressure; b) ASME BPE 1/2" size is only available with metal to metal sealing; c) Must be chosen in case of dome-loaded version; d) Consult IS PV20.00 – Technical information – for further details and other surface finish options.



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

IS PS161.015 E 05.21









SANITARY PRESSURE SUSTAINING VALVE PS163

DESCRIPTION

The ADCAPure PS163 is a series of inline direct acting diaphragm sensing pressure sustaining valves.

These regulators, available with spring or dome-loading, are designed for use with clean steam, compressed air, water and other gases or liquids compatible with the construction materials and valve design.

MAIN FEATURES

Spring or dome-loaded.

Non-rising adjustment knob.

Compact inline design with clamped body.

FDA / USP Class VI compliant seals.

Completely machined from bar stock material, no castings or forgings are used.

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: Leakage line connection (1/4").

Different soft sealings for liquids and gases.

Gauge connection on body.

Top cap (adjustment screw with cover).

Dome-loaded version.

USE: Clean steam, compressed air, water and

other gases and liquids compatible with the

construction.

AVAILABLE

MODELS: PS163.

SIZES: 1/2" to 2"; DN 15 to 50.

REGULATING

RANGES: 0,8 to 1,5 bar; 1 to 3 bar; 1,5 to 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. See IMI – Installation and

maintenance instructions.





LIMITING CONDITIONS								
Valve model	PS163							
Body design conditions	PN 16							
Maximum upstream pressure	8 bar							
Minimum upstream pressure	0,8 bar							
Maximum operating temperature *	180 °C							

^{*} With PTFE diaphragm and seals. Consult the manufacturer in case of other elastomer materials.

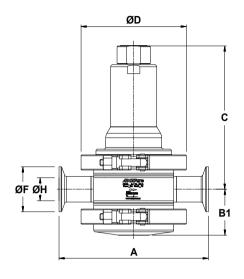
CE MARKING – GROUP 2 (PED – European Directive)									
Category									
1/2" to 2" – DN 15 to 50 SEP									

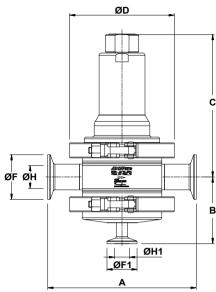


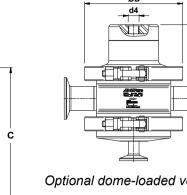




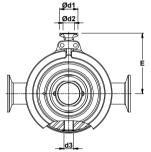








Optional dome-loaded version



Optional pressure gauge connections

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

IS PS163.015 E 03.21

	DIMENSIONS (mm) ASME BPE															
SIZE	Α	В	B1	С	C1	ØD	Ød1	Ød2	d3 *	d4 *	Е	ØF	ØН	ØF1	ØH1	WGT. (kg)
1/2"	153	70	47	156	84	119	25	15,75	1/4"	1/4"	83	25	9,4	25	9,4	5
3/4"	153	74	51	160	88	119	25	15,75	1/4"	1/4"	83	25	15,75	25	9,4	5,6
1"	153	77	54	163	91	119	25	15,75	1/4"	1/4"	83	50,5	22,1	25	9,4	5,7
11/2"	170	95	71	204	124	134	25	15,75	1/4"	1/4"	96	50,5	34,8	25	9,4	9,8
2"	170	99	74	207	127	134	25	15,75	1/4"	1/4"	96	64	47,5	25	9,4	9,8

Optional bottom cover with drain connection

	DIMENSIONS (mm) DIN															
SIZE	Α	В	B1	С	C1	ØD	Ød1	Ød2	d3 *	d4 *	E	ØF	ØН	ØF1	ØH1	WGT. (kg)
DN 15	153	74	51	160	88	119	25	15,75	1/4"	1/4"	83	34	16	34	10	5,6
DN 20	153	72	49	158	86	119	25	15,75	1/4"	1/4"	83	34	20	34	10	5,3
DN 25	168	75	52	161	89	119	25	15,75	1/4"	1/4"	83	50,5	26	34	10	5,6
DN 32	168	77	54	163	91	119	25	15,75	1/4"	1/4"	83	50,5	32	34	10	5,8
DN 40	185	94	70	202	122	134	25	15,75	1/4"	1/4"	96	50,5	38	34	10	9,5
DN 50	185	98	74	206	126	134	25	15,75	1/4"	1/4"	96	64	50	34	10	9,8

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	B1	С	C1	ØD	Ød1	Ød2	d3 *	d4 *	E	ØF	ØН	ØF1	ØH1	WGT. (kg)
DN 15	168	73	50	159	87	119	25	15,75	1/4"	1/4"	83	50,5	18,1	25	10,3	5,4
DN 20	168	76	53	162	90	119	25	15,75	1/4"	1/4"	83	50,5	23,7	25	10,3	5,6
DN 25	168	78	55	164	92	119	25	15,75	1/4"	1/4"	83	50,5	29,7	25	10,3	6
DN 32	185	93	69	202	122	134	25	15,75	1/4"	1/4"	96	64	38,4	25	10,3	9,6
DN 40	185	100	76	206	126	134	25	15,75	1/4"	1/4"	96	64	44,3	25	10,3	10

Remarks: Clamp ferrules according to DIN 32676-B; Tube weld (ETO) according to DIN 11866-B (ISO 1127).

^{*} As standard, optional connections d3 and d4 are female threaded ISO 7 Rp.









	FLOW RATE COEFFICIENTS (m³/h)																	
		А	SME BP	E			DIN					ISO						
SIZE	1/2"	3/4"	1"	11/2"	2"	DN 15	DN 15 DN 20 DN 25 DN 32 DN 40 DN 50				DN 15	DN 20	DN 25	DN 32	DN 40			
Kvs	1,3	3	4,2	7	13	2,1	3	4,2	4,2	7	13	2,1	4,2	4,2	7	7		

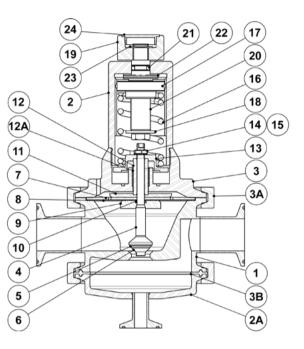
For conversion Kvs = Cv (US) x 0,865.

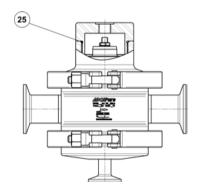
MATERIALS								
POS. Nº	DESIGNATION	MATERIAL						
1	Valve body	AISI 316L / 1.4404						
2	Cover	AISI 316L / 1.4404						
3	Intermediate flange	AISI 316L / 1.4404						
3A	Clamp	AISI 316 / 1.4401						
4	* Valve stem	AISI 316L / 1.4404						
5	* Soft plug	** EPDM; PTFE; FPM						
6	* Valve plug	AISI 316L / 1.4404						
7	* Upper diaphragm	EPDM						
8	* Lower diaphragm	PTFE (Gylon)						
9	Diaphragm plate	AISI 316L / 1.4404						
10	* O-ring	EPDM						
11	Diaphragm plate	AISI 316L / 1.4404						
12	Stem guide	AISI 316L / 1.4404						
12A	Plain bearing	Bronze						
13	Spring plate	AISI 316L / 1.4404						
14	Nut	AISI 304 / 1.4301						
15	Washer	AISI 304 / 1.4301						
16	* Adjustment spring	AISI 302 / 1.4300						
17	Top spring plate	AISI 316L / 1.4404						
18	Retaining washer	Stainless steel A2-70						
19	Adjustment nut	AISI 316L / 1.4404						
20	Adjustment screw	Brass						
21	O-ring	NBR						
22	Bearing	Corrosion resistant steel						
23	Shaft ring	Stainless steel						
24	Cover nut	Plastic						
25	* O-ring	NBR						
Available spare parts: ** Others on request.								

^{*} 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.





Optional dome-loaded version (1/4")

OPTIONS										
ADJUSTMENT SCREW WITH TOP CAP	PRESSURE GAUGE CONNECTION	LEAKAGE LINE CONNECTION								

VALSTEAM ADCA







Valve model PS63 1	4	1	ТМ	ı	X	Х	Х	DI	15	
PS163 – AISI 316L / 1.4404 diaphragm sensing press. sustaining valve without drain PS63		T								
PS163 – AISI 316L / 1.4404 diaphragm sensing press. sustaining valve with drain PS6D										
Valve series										
Series 1 1										
Regulating range										
0,8 to 1,5 bar	4									
1 to 3 bar	5									
1,5 to 8 bar	6									
0,8 to 8 bar (dome-loaded) a)	Α									
Flow rate coefficient										
Kvs 1,3 (only applicable to ASME BPE 1/2" size)		1								
Kvs 2,1 (applicable to sizes DIN DN 15 and ISO DN 15)		2								
Kvs 3 (applicable to sizes ASME BPE 3/4" and DIN DN 20)	;	3								
Kvs 4,2 (applicable to sizes ASME BPE 1", DIN DN 25 to DN 32 and ISO DN 20 to DN 25)	4	4								
Kvs 7 (applicable to sizes ASME BPE 11/2", DIN DN 40 and ISO DN 32 to DN 40)		6								
Kvs 13 (applicable to sizes ASME BPE 2" and DIN DN 50)	- 1	8								
Diaphragm										
PTFE (Gylon)			Т							
EPDM (non-standard)			E							
Seat material b)										
Metal to metal (non-standard, except in ASME BPE 1/2" size)			M							
EPDM .			E							
PTFE			Т							
FPM / Viton (FDA approval only)			V							
Adjustment knob, top cap and leakage line connection										
Stainless steel adjustment knob				I	1					
Top cap (adjustment screw with cover)				Т						
Stainless steel adjustment knob w/ diaphragm cover leakage connection in case of diaphragm failu	ıre			L	1					
Top cap (adjustment screw with cover) w/ diaphragm cover leakage connection in case of diaphrag		lure		U	1					
Dome-loaded top c)				Х	1					
Gauge port options										
Nithout gauge ports					Х	1				
Tri-clamp gauge port on the left side (rel. to the flow direction) – downstream pressure					7	1				
Tri-clamp gauge port on the right side (rel. to the flow direction) – downstream pressure					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 pressure – ISO 7 Rp	1/4"				4	1				
Threaded gauge port on the right side (rel. to the flow direction) – downstream pressure – ISO 7 Rp					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 pressure – 1/4" NPT					w	1				
Threaded gauge port on the right side (rel. to the flow direction) – downstream pressure – 1/4" NPT	Γ				Υ	1				
Threaded gauge port on both sides – downstream pressure – 1/4" NPT	-				Z	1				
Surface finish d)					_	i				
Standard surface finish						х	1			
Mirror mechanical polished external surfaces (SF1)						P	1			
Electropolished internal wetted parts (SF5)						Ė	1			
Special features							1			
None							х			
Degreased for oxygen							0			
9								i		
Pipe connections								D		
								F		
Clamp ferrule ASME BPE								E		
Clamp ferrule ASME BPE Clamp ferrule DIN (DIN 32676-A)								DI		
Clamp ferrule ASME BPE Clamp ferrule DIN (DIN 32676-A) Clamp ferrule ISO (DIN 32676-B)								FI		
Clamp ferrule ASME BPE Clamp ferrule DIN (DIN 32676-A) Clamp ferrule ISO (DIN 32676-B) Tube weld (ETO) according to ASME BPE										
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)								ΕI		1
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)								EI		
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								EI	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 1/2" or DN 15								EI	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 1/2" or DN 15 3/4" or DN 20								EI	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 1/2" or DN 15 3/4" or DN 20 1" or DN 25								EI	20 25	
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 1/2" or DN 15 3/4" or DN 20 1" or DN 25 DN 32								EI	20 25 32	
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 1/2" or DN 15 3/4" or DN 20 1" or DN 25 DN 32 11/2" or DN 40								EI	20 25 32 40	
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 1/2" or DN 15 3/4" or DN 20 1" or DN 25 DN 32								EI	20 25 32	

a) The loading control pressure can be up to a maximum of 0,2 bar above the required upstream pressure; b) ASME BPE 1/2" size is only available with metal to metal sealing; c) Must be chosen in case of dome-loaded version; d) Consult IS PV20.00 – Technical information – for further details and other surface finish options.



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

IS PS163.015 E 03.21









SANITARY PRESSURE SUSTAINING VALVE PS173

DESCRIPTION

The ADCAPure PS173 is a series of inline direct acting, diaphragm sensing pressure sustaining valves.

These regulators, available with spring or dome-loading, are designed for use with clean steam, compressed air, water and other gases or liquids compatible with the construction materials and valve design.

MAIN FEATURES

Compact inline design.

Non-rising adjustment knob.

FDA / USP Class VI compliant seals.

Completely machined from bar stock material, no castings or forgings are used on the standard version.

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: Leakage line connection (1/8").

Different soft sealings for liquids and gases.

Gauge connection on body.

Top cap (adjustment screw with cover). Bottom cover with drain connection.

USE: Clean steam, compressed air, water and

other gases and liquids compatible with the

construction.

AVAILABLE

MODELS: PS173 – inline design.

SIZES: 11/2" to 2"; DN 32 to DN 50.

REGULATING

RANGES: 0.8 - 1.5 bar; 1 - 3 bar; 1.5 - 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.

See IMI – Installation and maintenance

instructions.





LIMITING CONDITIONS								
Valve model	PS173							
Body design conditions	PN 16							
Maximum upstream pressure	8 bar							
Minimum upstream pressure	0,8 bar							
Maximum operating temperature *	180 °C							

^{*} With PTFE diaphragm and seals. Consult the manufacturer in case of other elastomer materials.

CE MARKING (PED – Europea	
PN 16	Category
11/2" to 2" – DN 32 to DN 50	SEP









	FLOW RATES COEFFICIENTS (m³/h)													
	ASME BPE DIN ISO													
SIZE	11/2"	2"	DN 40 DN 50		DN 32	DN 40								
Kvs	5,5	8,5	5,5	8,5	5,5	8,5								

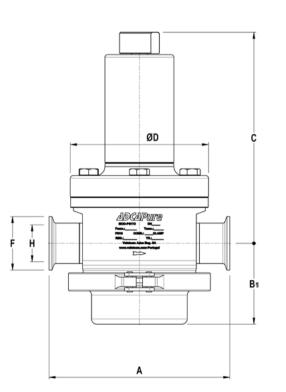
	DIMENSIONS (mm) ASME BPE														
SIZE	Α	В	B1	С	D	d1	d2	Е	_	н	NPS	1/2"	WGT.		
SIZE	4	D	ы		U	u i	uz	ı	F		F1	H1	(kg)		
11/2"	170	94	70	199	130	25	15,75	90	50,5	34,8	25	9,4	8,6		
2"	170	99	76	205	130	25	15,75	90	64	47,5	25	9,4	8,9		

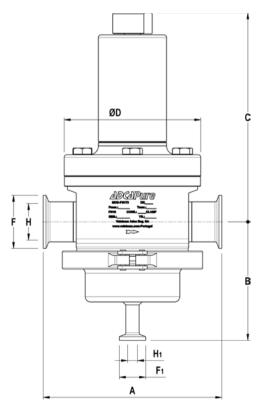
	DIMENSIONS (mm) DIN												
SIZE	Α	В	B1	С	D	d1	d2	Е	F	н	DN	15	WGT.
OIZL	(u i	uz.	-	•		F1	H1	(kg)
DN 40	170	94	70	199	130	25	15,75	90	50,5	38	34	10	8,6
DN 50	170	99	76	205	130	25	15,75	90	64	50	34	10	8,9

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	B1	С	D	d1	d2	Е	F	н	DN	15	WGT.		
SIZE	A	Ь	ы	١	U	u i	uz			П	F1	H1	(kg)		
DN 32	170	93	70	199	130	25	15,75	90	64	38,4	25	10,3	8,6		
DN 40	170	99	76	205	130	25	15,75	90	64	44,3	25	10,3	9,2		

Remarks: Clamp ferrules according to DIN 32676-B; Tube weld (ETO) according to DIN 11866-B (ISO 1127).





Optional bottom cover with drain connection



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

IS PS173.20 E 11.16







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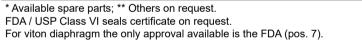
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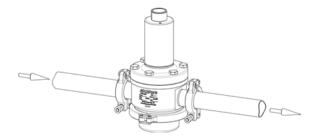
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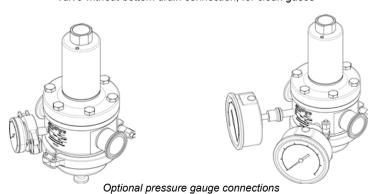
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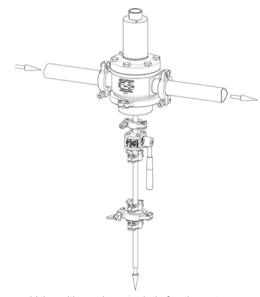
	MATER	RIALS
POS.	DESIGNATION	MATERIAL
1	Valve body	AISI 316L / 1.4404
2	Cover	AISI 316L / 1.4404
2.1	Bottom cover	AISI 316L / 1.4404
2.2	Gasket	PTFE / TFM® Envelope gasket
2.3	Safety clamp	AISI 316 / 1.4401
3	Centering plate	AISI 316L / 1.4404
4	* Valve stem	AISI 316L / 1.4404
5	* Soft plug	** EPDM; PTFE; FPM
6	* Valve plug	AISI 316L / 1.4404
7	* Upper diaphragm	EPDM
8	* Lower diaphragm	PTFE (Gylon)
9	Diaphragm plate	AISI 316L / 1.4404
10	* O-ring	EPDM
11	Diaphragm plate	AISI 316L / 1.4404
12	Stem guide	AISI 316 / 1.4401
13	Spring plate	AISI 316 / 1.4401
14	Nut	Stainless steel A2-70
15	Washer	AISI 316 / 1.4401
16	* Adjustment spring	AISI 302 / 1.4300
17	Top spring plate	AISI 316 / 1.4401
18	Retaining washer	Stainless steel A2-70
19	Adjustment nut	AISI 316L / 1.4404
20	Adjustment screw	Brass
21	O-ring	NBR
22	Bearing	Corrosion resistant steel
23	Shaft ring	Stainless steel
24	Cover nut	Plastic
25	Bolts	Stainless steel A2-70





Valve without bottom drain connection, for clean gases



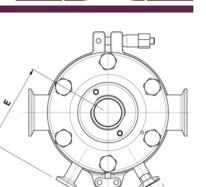


Valve with condensate drain for clean steam



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





Optional pressure gauge connections

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Threaded gauge port on left side (rel. to the flow direction) – upstream and downstream press. – 2 conn. – 1/4" NPT U Threaded gauge port on right side (rel. to the flow direction) – upstream and downstream pressure – 2 conn. – 1/4" NPT V Threaded gauge port on both sides – upstream pressure – 1/4" NPT Z Surface finish b) Standard surface finish X Mirror mechanical polished external surfaces (SF1)
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Threaded gauge port on both sides – upstream pressure – 1/4" NPT Surface finish b) Standard surface finish X Mirror mechanical polished external surfaces (SF1)
Surface finish b) Standard surface finish Mirror mechanical polished external surfaces (SF1) P
Standard surface finish Mirror mechanical polished external surfaces (SF1) P
Mirror mechanical polished external surfaces (SF1)
Electropolished internal wetted parts (SF5)
Special features
None X
Degreased for oxygen 0
Pipe connection
Clamp ferrule ASME BPE D
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 32 (available with ISO connections only)
11/2" or DN 40
2" or DN 50 (not available with ISO connections)
Special valves / Extras
Full description or additional codes have to be added in case of non-standard combination

a) Under special request and after approval of technical solution; b) Consult IS PV20.00 for further details and other surface finish options.



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

IS PS173.20 E 11.16







SANITARY TANK BLANKETING REGULATORS BKR2

DESCRIPTION

Tank blanketing valves are commonly used in tank storage systems to prevent and protect against explosions (avoiding flammable liquids being vented from the vessel), to control product contamination against external air that may fill the vapour space, to reduce evaporation losses (consequently, production losses), to reduce internal corrosion (caused by air and moisture) and to prevent vacuum condition. The blanketing process consists in covering the stored medium,

usually a liquid, with a gas (normally N2).

MAIN FEATURES

Compact design. Non-rising adjustment knob. FDA / USP Class VI compliant seals.

STANDARD SURFACE FINISH

Body and internal wetted parts: ≤ 0,51 micron Ra – SF1.

Body external: ≤ 0,76 micron Ra – SF3. Cover: internal machined; external as casted.

Other surface conditions see IS PV20.00 E - Technical information. Ultrasonic cleaning.

OPTIONS:

Leakage line connection 1/4". Gauge connection on body.

External pulse line (recommended for low set

pressures < 10 mbar or high flow).

Dome-loaded version. Blanketing with vacuum.

Top cap (adjustment screw with cover).

Hastelloy wetted parts. ATEX (x) version.

USE: Compressed air, nitrogen and other gases

compatible with the construction. **AVAILABLE**

MODELS: BKR2 - low pressure regulator.

SIZES: 1"; DN 25.

REGULATING

PACKAGING:

RANGES: 5 to 10 mbar; 10 to 50 mbar; 20 to 200 mbar; 50

to 500 mbar; 5 to 4000 mbar (dome-loaded).

CONNECTIONS: ASME BPE, DIN and ISO clamp ferrules. Flanged EN 1092-1 PN 16. Others on request.

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: Vertical installation recommended, to allow drainage, or horizontal as close to the process

as possible in order to prevent long pipe sections and flow restrictions. See IMI - Installation and

maintenance instructions.







CE MARKING (PED – Europea	
PN 16	Category
1" – DN 25	SEP

CE MARKING – A (ATEX – Europe	
PN 16	Category
1" – DN 25	Ex h IIB T6T3 Gb







	AIR CAPACITIES (Nm³/h) Maximum inlet pressure 6 bar – Seat Ø 8 mm												
SIZE	OUTLET PRESS.	inter i necocine (saig)											
SIZE	(mbar)	0,1	0,5	0,8	1	2	3	4	5	6			
	5 to 10	4	20	32	40	63	85	102	125	140			
1" – DN 25	10 to 50	4	20	32	40	63	85	102	125	140			
	20 to 200	-	20	32	40	63	85	102	125	140			
	50 to 500	_	_	_	40	63	85	102	125	140			

Outlet pressure should not be more than 50% of the inlet, in order to reach the mentioned flow rates.

DIMENSIONS (mm) ASME BPE													
SIZE	A	В	С	D	F	Н	d1	d2	WEIGHT (kg)				
1"	210	49	244	230	50,5	22,1	25	15,75	8,5				

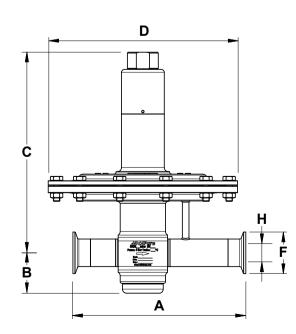
DIMENSIONS (mm) DIN											
SIZE	Α	В	С	D	F	Н	d1	d2	WEIGHT (kg)		
DN 25	210	49	244	230	50,5	26	25	15,75	8,5		

Remark: Clamp ferrules according to DIN 32676-A.

			DIME	NSION	IS (mm) ISO			
SIZE	Α	В	С	D	F	Н	d1	d2	WEIGHT (kg)
DN 25	210	49	244	230	50,5	29,7	25	15,75	8,5

Remark: Clamp ferrules according to DIN 32676-B.

		DIMEN	SIONS (mm) FLA	ANGED		
SIZE	Α	В	С	D	d1	d2	WEIGHT (kg)
DN 25	210	49	244	230	25	15,75	10,6



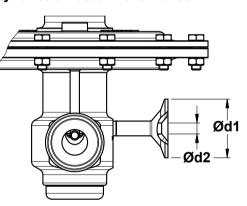
Maximu	AIR CAPACITIES (Nm³/h) Maximum inlet pressure 12 bar – Seat Ø 5 mm											
OUTLET INLET PRESSURE (barg) PRESS.												
SIZE	(mbar)	2	4	6	8	12						
	5 to 10	21	35	49	62	90						
1" – DN 25	10 to 50	21	35	49	62	90						
1 - DN 25	20 to 200	21	35	49	62	90						
	50 to 500	21	35	49	62	90						

Outlet pressure should not be more than 50% of the inlet, in order to reach the mentioned flow rates.

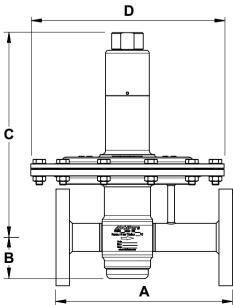
LIMITING CONDITIONS											
Valve model	BKR2										
Body design conditions	PN 16										
May unatroom procesure	Seat Ø 5 mm	12 bar									
Max. upstream pressure	Seat Ø 8 mm	6 bar									
Maximum downstream pressure	*	500 mbar									
Minimum downstream pressure	5 mbar										
Maximum design temperature **	130 °C										

^{* 4000} mbar with dome load;

Warning: Blanketing valves are not substitute for safety valves or vacuum relief valves.



Optional pressure gauge connections





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

IS BKR2.20 E 09.17



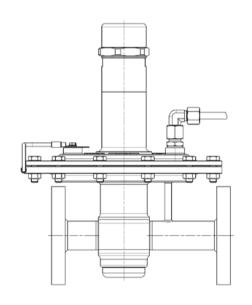




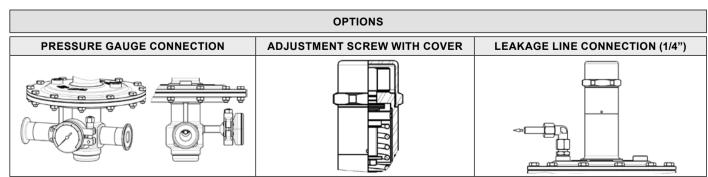
MATERIALS							
POS. Nº	DESIGNATION	MATERIAL					
1	Valva hadv	AISI 316L / 1.4404					
1	Valve body	Hastelloy C22 / 2.4602					
2	Diaphragm top cover	A351 CF3M / 1.4409					
2A	Dianhragm battam acuer	AISI 316L / 1.4404					
ZA	Diaphragm bottom cover	Hastelloy C22 / 2.4602					
3	Seat cover	AISI 316L / 1.4404					
3	Seat Cover	Hastelloy C22 / 2.4602					
4	* O-ring	EPDM					
5	* Piston	AISI 316L / 1.4404					
	1 13:011	Hastelloy C22 / 2.4602					
6	* Valve head	AISI 316L / 1.4404					
	valve nead	Hastelloy C22 / 2.4602					
7	* O-ring	EPDM; FPM					
7.1	* O-ring	EPDM; FPM					
8	* Valve spring	AISI 302 / 1.4300 (polished)					
	valve spring	Hastelloy C22 / 2.4602					
9	Seat	AISI 316L / 1.4404					
		Hastelloy C22 / 2.4602					
10	* O-ring	EPDM					
11	Guide	PTFE					
12	Stem	AISI 316L / 1.4404					
12		Hastelloy C22 / 2.4602					
13	Stem guide	PTFE					
14	Retaining ring	Stainless steel A2					
	Tretaining ring	Hastelloy C22 / 2.4602					
15	Diaphragm plate	AISI 316L / 1.4404					
		Hastelloy C22 / 2.4602					
16	* O-ring	EPDM					
17	Bolts	Stainless steel A2-70					
18	Nuts	Stainless steel A2-70					
19	Spring cover	AISI 316L / 1.4404					
20	* Lower diaphragm	PTFE (Gylon)					
21	* Upper diaphragm	EPDM					
22	Diaphragm plate	AISI 316L / 1.4404					
23	Nut	Stainless steel A2-70					
24	Washer	AISI 316 / 1.4401					
25	Lower spring guide	AISI 316L / 1.4404					
26	* Adjustment spring	AISI 302 / 1.4300					
27	Top spring plate	AISI 316L / 1.4404					
28	Adjustment screw	Brass					
29	Bearing	Corrosion resistant steel					
30	* O-ring	NBR					
31	Adjustment nut	AISI 316L / 1.4404					
32	Shaft ring	Stainless steel					
33	Cover nut	Plastic					

^{*} Available spare parts;

33 32 29 31 27 19 28 24 23 31 32 22 2A 21 20 25 17	16 15 14
7.1 6 5 7 4 8 3	13 12 12



ATEX compliant version





^{**} Others on request.

FDA / USP Class VI seals certificate on request.

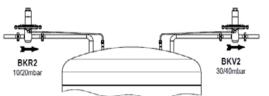
All valves have a serial number. In case of non standard valves, this number must be supplied if spare parts are ordered.

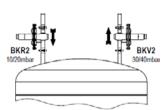






TYPICAL INSTALLATION





Blanketing with overpressure

Blanketing with overpre	ssure												
ORDERING CODES B	KR2												
Valve model	BR	Α	5	Т	E	lı	Х	Х	Х	0	D	25	l
BKR2 – AISI 316L / 1.4404 blanketing low pressure regulator	BR	+	<u> </u>	-	1						ļ —		F
BKR2 – Hastelloy C22 / 2.4602 blanketing low pressure regulator	BRH	1											
Regulating range		-											
5 to 10 mbar		0	1										
10 to 50 mbar		1	┨										
20 to 200 mbar		2	1										
50 to 500 mbar		3	1										
5 to 4000 mbar (dome-loaded)		A	1										
Valve seat orifice		A	1										
Seat diameter 5 mm			5	1									
Seat diameter 8 mm			8	i									
Diaphragm			1	i									
PTFE (Gylon)				Т	1								
EPDM (non-standard)				E	1								
Valve head				_	1								
EPDM					E	1							
FPM / Viton (FDA approval only)					v	1							
Adjustment knob, top cap and leakage line connect	ion												
Stainless steel adjustment knob						Т	1						
Top cap (adjustment screw with cover)						T	1						
Stainless steel adjustment knob w/ diaphragm cover leakage connection in case of	f diaphragm f	ailur	<u> </u>			Ė	1						
Top cap (adjustment screw with cover) w/ diaphragm cover leakage connection in				ure	a)	Ū							
Dome-loaded top b)					-,	X	1						
Gauge port options							i						
Without gauge ports							Х	1					
Tri-clamp gauge port on the left side (rel. to the flow direction) – downstream press	sure						7	1					
Tri-clamp gauge port on the right side (rel. to the flow direction) – downstream pres							6	ĺ					
Tri-clamp gauge port on both sides – downstream pressure							5						
Threaded gauge port on the left side (rel. to the flow direction) – downstream press							4						
Threaded gauge port on the right side (rel. to the flow direction) – downstream pre-	ssure – ISO 7	7 Rp	1/4"				3						
Threaded gauge port on both sides – downstream pressure – ISO 7 Rp 1/4"	4/48.51						2						
Threaded gauge port on the left side (rel. to the flow direction) – downstream press							W	-					
Threaded gauge port on the right side (rel. to the flow direction) – downstream pres	ssure – 1/4" i	NPI					Z	ł					
Threaded gauge port on both sides – downstream pressure – 1/4" NPT Surface finish c)								ł					
Standard surface finish								Х	-				
Mirror mechanical polished external surfaces (SF1)								P	┨				
Electropolished internal wetted parts (SF5)								E	1				
Special features									1				
None									Х	1			
External pulse line													
Internal pulse orifice (standard)										0	1		
External pulse line connection 1/4"										1	┨		
										<u>'</u>			
Pipe connection Clamp ferrule ASME BPE											D	1	
Clamp ferrule ASME BPE Clamp ferrule DIN (DIN 32676-A)											F	1	
Clamp ferrule ISO (DIN 32676-B)											E	1	
Flanged EN 1092-1 PN 16											L	1	
Flanged EN 1092-1 PN 16											<u> </u>	1	
1" or DN 25												25	1
Special valves / Extra												_∠5	
ATEX compliant version	3												E
	hination												E
Full description or additional codes have to be added in case of non-standard com	บแลแบบ												

Full description or additional codes have to be added in case of non-standard combination

a) This option must be chosen in case of ATEX compliant version; b) This option must be chosen in case of dome-loaded version; c) Consult IS PV20.00 for further details and other surface finish options.



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







TANK BLANKETING REGULATORS BKR12

DESCRIPTION

Tank blanketing valves are commonly used in tank storage systems to prevent and protect against explosions (avoiding flammable liquids being vented from the vessel), to control product contamination against external air that may fill the vapour space, to reduce evaporation losses (consequently, production losses), to reduce internal corrosion (caused by air and moisture) and to prevent vacuum condition.

The blanketing process consists in covering the stored medium, usually a liquid, with a gas (normally N2).



Compact design.

Non-rising adjustment knob.

FDA / USP Class VI compliant seals.

STANDARD SURFACE FINISH

Internal movable parts and machined surfaces: ≤ 0,76 micron Ra – SF3. Other surfaces: as casted. Ultrasonic cleaning.

OPTIONS: Leakage line connection 1/4".

Gauge connection on body.

External pulse line (recommended for low set

pressures < 10 mbar or high flow).

Dome-loaded version.
Blanketing with vacuum.

Top cap (adjustment screw with cover).

ATEX (x) version.

USE: Compressed air, nitrogen and other gases

compatible with the construction.

AVAILABLE

MODELS: BKRI2 – low pressure regulator.

SIZES: DN 15 and DN 25.

REGULATING

RANGES: 5 to 10 mbar; 10 to 50 mbar; 20 to 200 mbar;

50 to 500 mbar; 5 to 4000 mbar (dome-loaded).

CONNECTIONS: Flanged EN 1092-1 PN 16.

INSTALLATION: Vertical installation recommended, to allow

drainage, or horizontal as close to the process as possible in order to prevent long pipe sections

and flow restrictions.

See IMI – Installation and maintenance

instrucions.



CE MARKING – GROUP 2 (PED – European Directive)						
Category						
SEP						

CE MARKING – ATEX VERSION (ATEX – European Directive)						
PN 16	Category					
DN 15 to 25 Ex h IIB T6T3 Gb						









AIR CAPACITIES (Nm³/h) Maximum inlet pressure 6 bar – Seat Ø 8 mm												
0175	OUTLET			INL	ET PR	ESSU	RE (ba	arg)				
SIZE	PRESS. (mbar)	0,1	0,5	0,8	1	2	3	4	5	6		
	5 to 10	3,5	18	28	37	56	77	92	111	128		
DN 15	10 to 50	3,5	18	28	37	56	77	92	111	128		
DN 15	20 to 200	_	18	28	37	56	77	92	111	128		
	50 to 500	_	_	_	37	56	77	92	111	128		
	5 to 10	4	20	32	40	63	85	102	125	140		
DN 25	10 to 50	4	20	32	40	63	85	102	125	140		
DN 25	20 to 200	_	20	32	40	63	85	102	125	140		
	50 to 500	_	_	_	40	63	85	102	125	140		

Outlet pressure should not be more than 50% of the inlet, in order to reach the mentioned flow rates.

DIMENSIONS (mm)										
SIZE	Α	В	С	D	d1	WEIGHT (kg)				
DN 15	130	47,5	243,5	230	1/4"	9,7				
DN 25	160	57,5	243,5	230	1/4"	10,8				

AIR CAPACITIES (Nm³/h) Maximum inlet pressure 12 bar – Seat Ø 5 mm										
SIZE	OUTLET PRESS.	IN	ILET PE	RESSUI	RE (bar	g)				
SIZE	(mbar)	2	4	6	8	12				
DN 15	5 to 10	18	32	43	54	81				
	10 to 50	18	32	43	54	81				
DN 15	20 to 200	18	32	43	54	81				
	50 to 500	18	32	43	54	81				
	5 to 10	21	35	49	62	90				
DN 25	10 to 50	21	35	49	62	90				
DN 25	20 to 200	21	35	49	62	90				
	50 to 500	21	35	49	62	90				

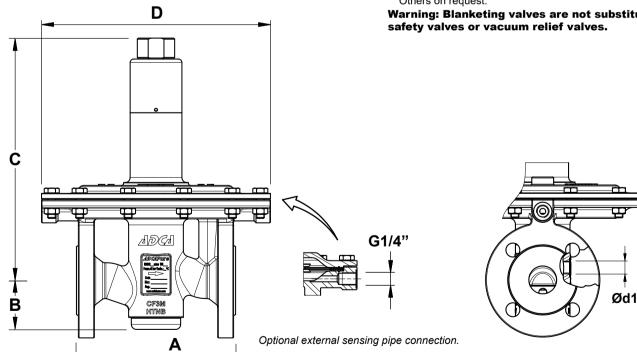
Outlet pressure should not be more than 50% of the inlet, in order to reach the mentioned flow rates.

LIMITING CONDITIONS										
Valve model E										
Body design conditions	PN 16									
May unatroom process	Seat Ø 5 mm	12 bar								
Max. upstream pressure	Seat Ø 8 mm	6 bar								
Maximum downstream pressure	*	500 mbar								
Minimum downstream pressure	5 mbar									
Maximum design temperature **		130 °C								

* 4000 mbar with dome load;

** Others on request.

Warning: Blanketing valves are not substitute for







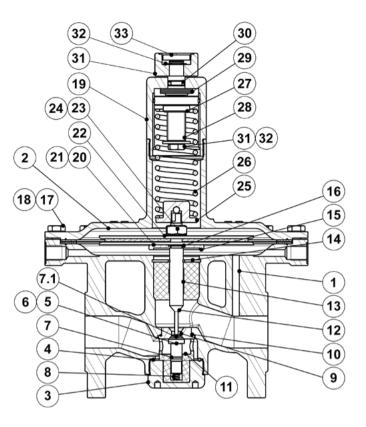


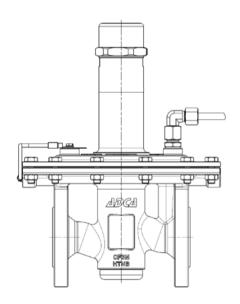
MATERIALS								
POS.	DESIGNATION	MATERIAL						
1	Valve body	A351 CF3M / 1.4409						
2	Diaphragm top cover	A351 CF3M / 1.4409						
3	Seat cover	AISI 316L / 1.4404						
4	* O-ring	EPDM						
5	* Piston	AISI 316L / 1.4404						
6	* Valve head	AISI 316L / 1.4404						
7	* O-ring	EPDM; FPM						
7.1	* O-ring	EPDM; FPM						
8	* Valve Spring	AISI 302 / 1.4300 (polished)						
9	Seat	AISI 316L / 1.4404						
10	* O-ring	EPDM						
11	Guide	PTFE						
12	Stem	AISI 316L / 1.4404						
13	Stem guide	PTFE						
14	Retaining ring	Stainless steel A2						
15	Diaphragm plate	AISI 316L / 1.4404						
16	* O-ring	EPDM						
17	Bolts	Stainless steel A2-70						
18	Nuts	Stainless steel A2-70						
19	Spring cover	AISI 316L / 1.4404						
20	* Lower diaphragm	PTFE (Gylon)						
21	* Upper diaphragm	EPDM						
22	Diaphragm plate	AISI 316L / 1.4404						
23	Nut	Stainless steel A2-70						
24	Washer	AISI 316 / 1.4401						
25	Lower spring guide	AISI 316L / 1.4404						
26	* Adjustment spring	AISI 302 / 1.4300						
27	Top spring plate	AISI 316L / 1.4404						
28	Adjustment screw	Brass						
29	Bearing	Corrosion resistant steel						
30	* O-ring	NBR						
31	Adjustment nut	AISI 316L / 1.4404						
32	Ext. bowed shaft ring	Stainless steel						
33	Cover nut	Plastic						
* Availa	ble spare parts:							

* Available spare parts;

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.





ATEX compliant version

	OPTIONS	
PRESSURE GAUGE CONNECTION	ADJUSTMENT SCREW WITH COVER	LEAKAGE LINE CONNECTION (1/4")

VALSTEAM ADCA

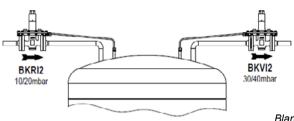
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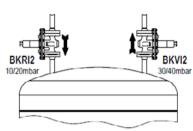






TYPICAL INSTALLATION





Rlanketing	with	overpressure
Diariketing	WILII	overpressure

Blanketing with overpre	ssure											
ORDERING CODES B	SKRI2											
Valve model	BRI	Α	5	Т	Е	ı	Х	Х	Х	0	L	15
BKRI2 – A351 CF3M / 1.4409 blanketing low pressure regulator	BRI											
Regulating range												
5 to 10 mbar		0										
		Ť										
10 to 50 mbar		1										
20 to 200 mbar		2										
50 to 500 mbar		3										
5 to 4000 mbar (dome-loaded)		Α										
Valve seat orifice												
Seat diameter 5 mm			5	1								
Seat diameter 8 mm			8									
Diaphragm								İ				
PTFE (Gylon)				Т	1							
EPDM (non-standard)				Е	1							
Valve head				,	1							
EPDM					Е							
FPM / Viton (FDA approval only)					V							
Adjustment knob, top cap and leakage line connec	tion				•							
Stainless steel adjustment knob						ı						
Top cap (adjustment screw with cover)						Т						
Stainless steel adjustment knob w/ diaphragm cover leakage connection in case of	of diaphragm	failure				L						
Top cap (adjustment screw with cover) w/ diaphragm cover leakage connection in				ure	a)	U						
Dome-loaded top b)	·					Х	Ì					
Gauge port options												
Without gauge ports							Х	1				
Threaded gauge port on the left side (rel. to the flow direction) – downstream pres	sure – ISO 7	Rp 1/	4"				4	1				
Threaded gauge port on the right side (rel. to the flow direction) – downstream pre		<u> </u>					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 pres	sure – 1/4" N	PT					w	1				
Threaded gauge port on the right side (rel. to the flow direction) – downstream pre							Υ	1				
Threaded gauge port on both sides – downstream pressure – 1/4" NPT	700410 171						z	1				
Surface finish c)							_					
Standard surface finish								х	1			
Mirror mechanical polished external surfaces (SF1)								P	-			
Electropolished internal wetted parts (SF5)								E	-			
Special features								<u> </u>				
None									X	1		
External pulse line									1	1		
Internal pulse orifice (standard)										0		
External pulse line connection 1/4"										1		
Pipe connection										<u> </u>		
Flanged EN 1092-1 PN 16											L	
Size												
DN 15												15
DN 25												15 25
	20											25
Special valves / Extra	15											
ATEX compliant version	. I. t e											
Full description or additional codes have to be added in case of non-standard com This option must be chosen in case of ATEX compliant version: h) This option in												

a) This option must be chosen in case of ATEX compliant version; b) This option must be chosen in case of dome-loaded version; c) Consult IS PV20.00 for further details and other surface finish options.



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

IS BKRI2.10 E 09.17









SANITARY TANK BLANKETING REGULATORS BKV2

DESCRIPTION

Tank blanketing valves are commonly used in tank storage systems to prevent and protect against explosions (avoiding flammable liquids being vented from the vessel), to control product contamination against external air that may fill the vapour space, to reduce evaporation losses (consequently, production losses), to reduce internal corrosion (caused by air and moisture) and to prevent vacuum condition. The blanketing process consists in covering the stored medium, usually a liquid, with a gas (normally N2).

MAIN FEATURES

Compact design.

Non-rising adjustment knob.

FDA / USP Class VI compliant seals.

STANDARD SURFACE FINISH

Body and internal wetted parts: ≤ 0,51 micron Ra – SF1.

Body external: ≤ 0,76 micron Ra – SF3.

Cover: internal machined; external as casted.

Other surface conditions see IS PV20.00 E – Technical information.

Ultrasonic cleaning.

OPTIONS: Leakage line connection 1/4".

Gauge connection on body. External pulse line.

Dome-loaded version.
Blanketing with vacuum.

Top cap (adjustment screw with cover).

Hastelloy wetted parts.
ATEX (x) version.

USE: Compressed air, nitrogen and other gases

compatible with the construction.

MODELS: BKV2 – low pressure venting valve.

SIZES: 1"; DN 25.

REGULATING RANGES:

AVAILABLE

NGES: 5 to 10 mbar; 10 to 50 mbar; 20 to 200 mbar; 50

to 500 mbar; 5 to 4000 mbar (dome-loaded).

CONNECTIONS: ASME BPE, DIN and ISO clamp ferrules.

Flanged EN 1092-1 PN 16. 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

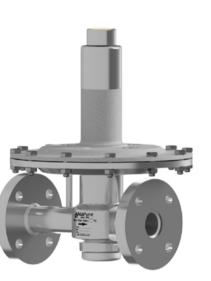
avoid contamination.

INSTALLATION: Vertical installation recommended, to allow

drainage, or horizontal as close to the process as possible in order to prevent long pipe sections and flow restrictions. See IMI – Installation and

maintenance instructions.





CE MARKING – GROUP 2 (PED – European Directive)						
Category						
SEP						

CE MARKING – ATEX VERSION (ATEX – European Directive)								
PN 16	Category							
1" – DN 25 Ex h IIB T6T3 Gb								









	AIR CAPACITIES (Nm3/h) Seat Ø 21 mm													
SET INLET PRESSURE (mbar)														
SIZE	PRESSURE	10	20	40	100	200	500							
	25% Overpressure	5,3	11,8	18	31	52	105							
1" – DN 25	50% Overpressure	7,2	14,5	26	40	66	125							
1 - DN 25	75% Overpressure	8,3	17	30	47	82	136							
	100% Overpressure	9,8	18	36	52	91	148							

	DIMENSIONS (mm) ASME BPE													
SIZE	Α	В	С	D	F	Н	d1	d2	WEIGHT (kg)					
1"	210	49	244	230	50,5	22,1	25	15,75	8,5					

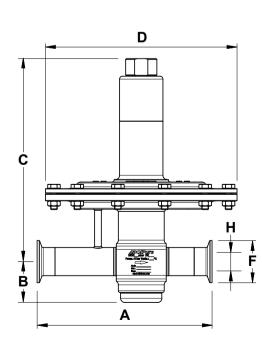
DIMENSIONS (mm) DIN											
SIZE	Α	В	С	D	F	Н	d1	d2	WEIGHT (kg)		
DN 25	210	49	244	230	50,5	26	25	15,75	8,5		

Remark: Clamp ferrules according to DIN 32676-A.

	DIMENSIONS (mm) ISO													
SIZE	Α	В	С	D	F	Н	d1	d2	WEIGHT (kg)					
DN 25	210	49	244	230	50,5	29,7	25	15,75	8,5					

Remark: Clamp ferrules according to DIN 32676-B.

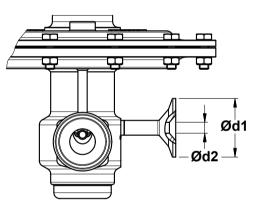
DIMENSIONS (mm) FLANGED												
SIZE	Α	В	С	D	d1	d2	WEIGHT (kg)					
DN 25	210	49	244	230	25	15,75	10,6					



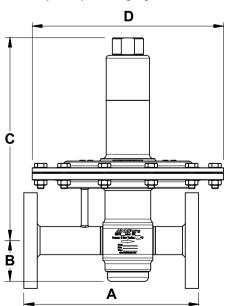
LIMITING CONDITIONS				
Valve model	BKV2			
Body design conditions	PN 16			
Maximum operating pressure	6 bar			
Maximum upstream pressure *	500 mbar			
Minimum upstream pressure	5 mbar			
Maximum design temperature **	130 °C			

^{* 4000} mbar with dome load;

Warning: Blanketing valves are not substitute for safety valves or vacuum relief valves.



Optional pressure gauge connections





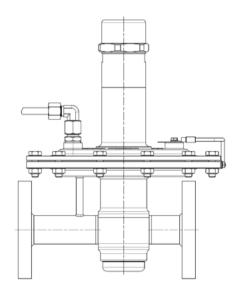




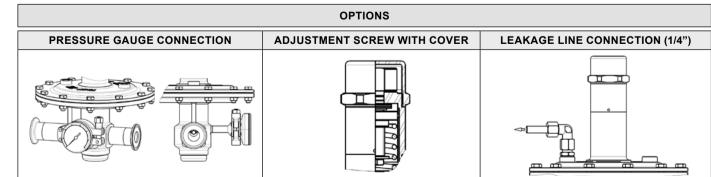
MATERIALS					
POS.	DESIGNATION	MATERIAL			
1	Valve body	AISI 316L / 1.4404			
'	valve body	Hastelloy C22 / 2.4602			
2	Diaphragm top cover	A351 CF3M / 1.4409			
2A	Diaphragm bottom cover	AISI 316L / 1.4404			
	Diapriragiii bottoiii covei	Hastelloy C22 / 2.4602			
3	Seat cover	AISI 316L / 1.4404			
		Hastelloy C22 / 2.4602			
4	* O-ring	EPDM			
5	Plug disc	AISI 316L / 1.4404			
	1 lag also	Hastelloy C22 / 2.4602			
6	* Valve head	AISI 316L / 1.4404			
		Hastelloy C22 / 2.4602			
7	* O-ring	EPDM; FPM			
8	Seat	AISI 316L / 1.4404			
		Hastelloy C22 / 2.4602			
9	* O-ring	EPDM			
10	Stem	AISI 316L / 1.4404			
	Ctom	Hastelloy C22 / 2.4602			
11	Stem guide	PTFE			
12	Retaining ring	Stainless steel A2-70			
12		Hastelloy C22 / 2.4602			
13	Diaphragm plate	AISI 316L / 1.4404			
	Biapriragin plate	Hastelloy C22 / 2.4602			
14	* O-ring	EPDM			
15	Bolts	Stainless steel A2-70			
16	Nuts	Stainless steel A2-70			
17	Spring cover	AISI 316L / 1.4404			
18	* Lower diaphragm	PTFE (Gylon)			
19	* Upper diaphragm	EPDM			
20	Diaphragm plate	AISI 316L / 1.4404			
21	Nut	Stainless steel A2-70			
22	Washer	AISI 316 / 1.4401			
23	Lower spring guide	AISI 316L / 1.4404			
24	* Adjustment spring	AISI 302 / 1.4300			
25	Top spring plate	AISI 316L / 1.4404			
26	Adjustment screw	Brass			
27	Bearing	Corrosion resistant steel			
28	* O-ring	NBR			
29	Adjustment nut	AISI 316L / 1.4404			
30	Ext. bowed shaft ring	Stainless steel			
31	Cover nut	Plastic			
* Available spare parts.					

^{*} Available spare parts.

2 2A 15	31 30 29 17 22 21 20 19 18	2 2 2 2 2 2	7) 55) 66) 1) 22)
9 8 1 4 3			12 11 10 5 7 6



ATEX compliant version



VALSTEAM ADCA

^{**} Others on request.

FDA / USP Class VI seals certificate on request.

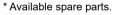
All valves have a serial number. In case of non standard valves, this number must be supplied if spare parts are ordered.



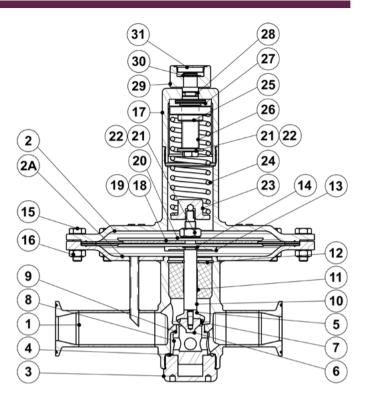


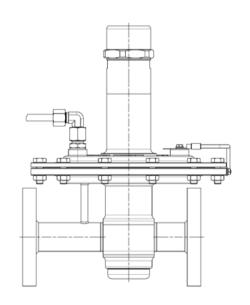


MATERIALS					
POS. Nº	DESIGNATION	MATERIAL			
1	Valve body	AISI 316L / 1.4404			
'	valve body	Hastelloy C22 / 2.4602			
2	Diaphragm top cover	A351 CF3M / 1.4409			
2A	Diaphragm bottom cover	AISI 316L / 1.4404			
24	Diaphragm bottom cover	Hastelloy C22 / 2.4602			
3	Seat cover	AISI 316L / 1.4404			
		Hastelloy C22 / 2.4602			
4	* O-ring	EPDM			
_	Dlug dies	AISI 316L / 1.4404			
5	Plug disc	Hastelloy C22 / 2.4602			
	* Valve head	AISI 316L / 1.4404			
6	valve nead	Hastelloy C22 / 2.4602			
7	* O-ring	EPDM; FPM			
	Soot	AISI 316L / 1.4404			
8	Seat	Hastelloy C22 / 2.4602			
9	* O-ring	EPDM			
40	Stem	AISI 316L / 1.4404			
10		Hastelloy C22 / 2.4602			
11	Stem guide	PTFE			
12	D. A. in in an aire of	Stainless steel A2-70			
	Retaining ring	Hastelloy C22 / 2.4602			
40	Discharge and the	AISI 316L / 1.4404			
13	Diaphragm plate	Hastelloy C22 / 2.4602			
14	* O-ring	EPDM			
15	Bolts	Stainless steel A2-70			
16	Nuts	Stainless steel A2-70			
17	Spring cover	AISI 316L / 1.4404			
18	* Lower diaphragm	PTFE (Gylon)			
19	* Upper diaphragm	EPDM			
20	Diaphragm plate	AISI 316L / 1.4404			
21	Nut	Stainless steel A2-70			
22	Washer	AISI 316 / 1.4401			
23	Lower spring guide	AISI 316L / 1.4404			
24	* Adjustment spring	AISI 302 / 1.4300			
25	Top spring plate	AISI 316L / 1.4404			
26	Adjustment screw	Brass			
27	Bearing	Corrosion resistant steel			
28	* O-ring	NBR			
29	Adjustment nut	AISI 316L / 1.4404			
30	Ext. bowed shaft ring	Stainless steel			
31	Cover nut	Plastic			
* Available snare parts					



FDA / USP Class VI seals certificate on request.





ATEX compliant version

OPTIONS					
PRESSURE GAUGE CONNECTION	ADJUSTMENT SCREW WITH COVER	LEAKAGE LINE CONNECTION (1/4")			



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







TANK BLANKETING REGULATORS BKVI2

DESCRIPTION

Tank blanketing valves are commonly used in tank storage systems to prevent and protect against explosions (avoiding flammable liquids being vented from the vessel), to control product contamination against external air that may fill the vapour space, to reduce evaporation losses (consequently, production losses), to reduce internal corrosion (caused by air and moisture) and to prevent vacuum condition. The blanketing process consists in covering the stored medium,

MAIN FEATURES

Compact design.

Non-rising adjustment knob.

FDA / USP Class VI compliant seals.

usually a liquid, with a gas (normally N2).

STANDARD SURFACE FINISH

Internal movable parts and machined surfaces: ≤ 0,76 micron Ra – SF3. Other surfaces: as casted. Ultrasonic cleaning.

OPTIONS:

Leakage line connection 1/4".
Gauge connection on body.

External pulse line.
Dome-loaded version.
Blanketing with vacuum.

Top cap (adjustment screw with cover).

ATEX (x) version.

USE: Compressed air, nitrogen and other gases

compatible with the construction.

AVAILABLE

MODELS: BKVI2 – low pressure venting valve.

SIZES: DN 15 and DN 25.

REGULATING

RANGES: 5 to 10 mbar; 10 to 50 mbar; 20 to 200 mbar; 50

to 500 mbar; 5 to 4000 mbar (dome-loaded).

CONNECTIONS: Flanged EN 1092-1 PN 16.

INSTALLATION: Vertical installation recommended, to allow

drainage, or horizontal as close to the process as possible in order to prevent long pipe sections

and flow restrictions.

See IMI – Installation and maintenance

instrucions.



CE MARKING – GROUP 2 (PED – European Directive)			

CE MARKING – ATEX VERSION (ATEX – European Directive)			
PN 16	Category		
DN 15 to 25	Ex h IIB T6T3 Gb		



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







AIR CAPACITIES (Nm³/h) Seat Ø 21 mm							
SIZE	SET	INLET PRESSURE (mbar)					
SIZE	PRESSURE	10	20	40	100	200	500
	25% Overpressure	4,5	10,5	16	27	45	95
DN 15	50% Overpressure	4,5	10,5	16	27	45	95
	75% Overpressure	4,5	10,5	16	27	45	95
	100% Overpressure	4,5	10,5	16	27	45	95
DN 25	25% Overpressure	5,3	11,8	18	31	52	105
	50% Overpressure	7,2	14,5	26	40	66	125
DI4 25	75% Overpressure	8,3	17	30	47	82	136
	100% Overpressure	9,8	18	36	52	91	148

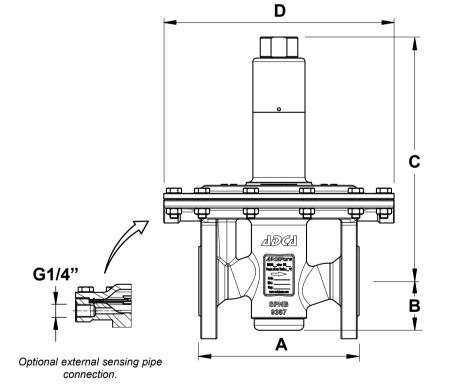
LIMITING CONDITIONS				
Valve model	BKVI2			
Body design conditions	PN 16			
Maximum operating pressure	6 bar			
Maximum upstream pressure *	500 mbar			
Minimum upstream pressure	5 mbar			
Maximum design temperature **	130 °C			

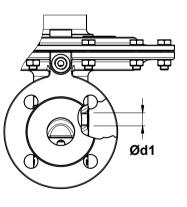
* 4000 mbar with dome load;

^{**} Others on request

Warning: Blanketing valves are not substitute for safety valves or vacuum relief valves.

1					
SIZE A B C D d					
130	47,5	243,5	230	1/4"	9,7
160	57,5	243,5	230	1/4"	10,8
160	57,5	243,5	230	1/4"	10,8
	130	130 47,5	130 47,5 243,5	130 47,5 243,5 230	130 47,5 243,5 230 1/4"









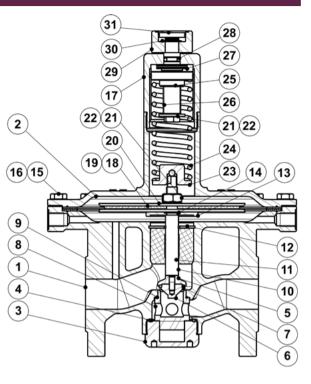


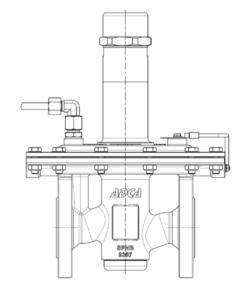
MATERIALS				
POS.	DESIGNATION	MATERIAL		
1	Valve body	A351 CF3M / 1.4409		
2	Diaphragm top cover	A351 CF3M / 1.4409		
3	Seat cover	AISI 316L / 1.4404		
4	* O-ring	EPDM		
5	Plug disc	AISI 316L / 1.4404		
6	* Valve head	AISI 316L / 1.4404		
7	* O-ring	EPDM; FPM		
8	Seat	AISI 316L / 1.4404		
9	* O-ring	EPDM		
10	Stem	AISI 316L / 1.4404		
11	Stem guide	PTFE		
12	Retaining ring	Stainless steel A2-70		
13	Diaphragm plate	AISI 316L / 1.4404		
14	* O-ring	EPDM		
15	Bolts	Stainless steel A2-70		
16	Nuts	Stainless steel A2-70		
17	Spring cover	AISI 316L / 1.4404		
18	* Lower diaphragm	PTFE (Gylon)		
19	* Upper diaphragm	EPDM		
20	Diaphragm plate	AISI 316L / 1.4404		
21	Nut	Stainless steel A2-70		
22	Washer	AISI 316 / 1.4401		
23	Lower spring guide	AISI 316L / 1.4404		
24	* Adjustment spring	AISI 302 / 1.4300		
25	Top spring plate	AISI 316L / 1.4404		
26	Adjustment screw	Brass		
27	Bearing	Corrosion resistant steel		
28	* O-ring	NBR		
29	Adjustment nut	AISI 316L / 1.4404		
30	Ext. bowed shaft ring	Stainless steel		
31	Cover nut	Plastic		

* Availab	le spare	parts;
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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.





ATEX compliant version

	OPTIONS	
PRESSURE GAUGE CONNECTION	ADJUSTMENT SCREW WITH COVER	LEAKAGE LINE CONNECTION (1/4")

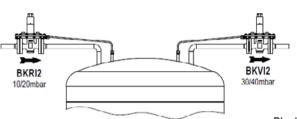
VALSTEAM ADCA

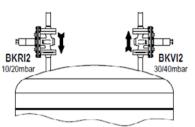






TYPICAL INSTALLATION





Blanketing with overpressur	re												
ORDERING CODES BKVI	2												
Valve model	BVI	Α	2	Т	Е	ı	Х	Х	Х	0	L	15	Е
BKVI2 – A351 CF3M / 1.4409 blanketing low pressure vent valve	BVI												
Regulating range	1												
5 to 10 mbar		0	1										
10 to 50 mbar		1											
20 to 200 mbar		2											
		3											
50 to 500 mbar		+ -											
5 to 4000 mbar (dome-loaded)		A	-										
Valve seat orifice													
Seat diameter 21 mm			2										
Diaphragm													
PTFE (Gylon)				Т									
EPDM (non-standard)				Е									
Valve head													
EPDM					Е								
FPM / Viton (FDA approval only)					٧								
Adjustment knob, top cap and leakage line connection													
Stainless steel adjustment knob						I							
Top cap (adjustment screw with cover)						Т							
Stainless steel adjustment knob w/ diaphragm cover leakage connection in case of dia	aphragm f	ailure)			L							
Top cap (adjustment screw with cover) w/ diaphragm cover leakage connection in case	e of diaph	ragm	ı failu	ire a	a)	U							
Dome-loaded top b)						X							
Gauge port options													
Without gauge ports							X 4						
Threaded gauge port on the left side (rel. to the flow direction) – downstream pressure – ISO 7 Rp 1/4"													
Threaded gauge port on the right side (rel. to the flow direction) – downstream pressure – ISO 7 Rp 1/4"							3						
Threaded gauge port on both sides – downstream pressure – ISO 7 Rp 1/4"							2						
Threaded gauge port on the left side (rel. to the flow direction) – downstream pressure – 1/4" NPT							W						
Threaded gauge port on the right side (rel. to the flow direction) – downstream pressure – 1/4" NPT Threaded gauge port on both sides – downstream pressure – 1/4" NPT							Y Z						
Surface finish c)													
Standard surface finish								Х					
Mirror mechanical polished external surfaces (SF1)								P					
Electropolished internal wetted parts (SF5)								E					
Special features								_					
None									Х				
External pulse line													
Internal pulse orifice (standard)										0			
External pulse line connection 1/4"										1			
Pipe connection													
Flanged EN 1092-1 PN 16											L		
Size													
DN 15												15	
DN 25												25	
Special valves / Extras													
ATEX compliant version													E
Full description or additional codes have to be added in case of non-standard combina	ation												

Full description or additional codes have to be added in case of non-standard combination

a) This option must be chosen in case of ATEX compliant version; b) This option must be chosen in case of dome-loaded version; c) Consult IS PV20.00 for further details and other surface finish options.



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

IS BKV2.10 E 10.17

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(i)