



SANITARY PRESSURE SUSTAINING VALVE PS160

DESCRIPTION

The ADCA PS160 series direct acting, spring-loaded diaphragm sensing, pressure sustaining valves are designed for use with clean steam, compressed air, water and other gases or liquids compatible with the construction materials.

MAIN FEATURES

Compact design. Completely machined from barstock material, no castings or forgings are used on the standard version.

No rising stem.

STANDARD SURFACE FINISH Internal wetted parts: $\leq 0,51$ micron Ra – SF1. External: $\leq 0,76$ micron Ra – SF3. Other surface conditions see IS PV20.00 E – Technical information.

Ultrasonic cleaning.

- OPTIONS: Leakage line connection 1/8" (captured vent). Different soft valves for liquids and gases. Gauge connection on body.
- USE: Clean steam, compressed air, water and other gases and liquids compatible with the construction.

AVAILABLE MODELS: PS160.

SIZES: 3/4", 1", 11/2", 2".

SPRING RANGES:

NANGES

- CONNECTIONS: ASME BPE. Clamp ferrules or others on request.
- PACKAGING: Assembling and packaging in a clean room certified according to ISO 14644-1. The product is end capped and sealed with recyclable thermo-shrinkable plastic film, to avoid contamination.

0,8 - 1,5 bar; 1 - 3 bar; 1,5 - 8 bar.

- INSTALLATION: Horizontal installation. Inlet horizontal and vertical outlet angle connection. See IMI. ORDER
- REQUIREMENTS: Type of fluid. Maximum operating temperature. Maximum inlet pressure and required open pressure. Capacity (maximum and minimum).

CE MARKING (PED – European Directive)						
PN16	Category					
3/4" to 2"	SEP					





LIMITING CONDITIONS							
Valve model	PS160						
Body design conditions	PN16						
Max. upstream pressure	8 bar						
Min. downstream pressure	0,8 bar						
Max. design temperature *	150 ⁰C						

* Other on request.

VALSTEAM ADCA

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





Capacities								
Valve size	3/4"	1"	11/2"	2" *				
Kvs	1,3	3,5	5,5	8,5 *				
* Limited to a r	novimum 1 hori	alot proceuro						

* Limited to a maximum 4 bar inlet pressure.

DIMENSIONS (mm) ASME BPE									
SIZE	Α	В	с	D	F	н	WGT. (kg)		
3/4"	85	56	192	130	25	15,75	6,7		
1"	85	55	192	130	50,5	22,1	6,8		
11/2"	85	65	199	130	50,5	34,8	7,6		
2"	85	69	205	130	64	47,5	7,8		

Consult factory for certified dimensions.

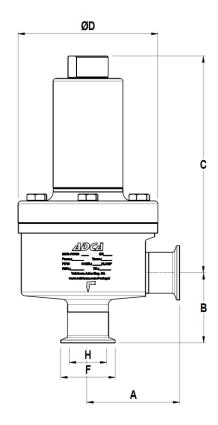
Dimensions subject to change without notice.

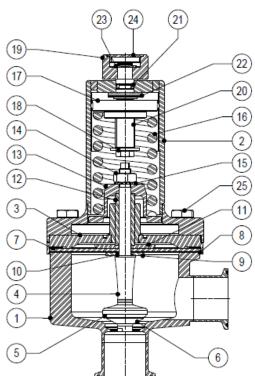
MATERIALS							
POS. №	DESIGNATION	MATERIAL					
1	Valve body	AISI 316L / 1.4404					
2	Cover	AISI 316L / 1.4404					
3	Centering plate	AISI 316L / 1.4404					
4	* Valve stem	AISI 316L / 1.4404					
5	* Soft plug	EPDM; PTFE **					
6	* Valve plug	AISI 316L / 1.4404					
7	* Upper diaphragm	EPDM					
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	Regulating nut	AISI 316L / 1.4404					
20	Adjustment screw	Brass					
21	O-ring	NBR					
22	Bearing	Corrosion resistant steel					
23	Ext. bowed shaft ring	Stainless steel					
24	Cover nut	Plastic					
25	Bolts	A2					

* Available spare parts.; ** Others according to fluid.

FDA / USP Class VI seals certificate on request.

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











ORDERING CC	DDES P	S160										
Valve model	PS16	Α	1	Т	м	I	Х	Х	Х	D	20	Е
PS160 – AISI 316L / 1.4404 Diaphragm sensing press. sustaining valve	PS16		1		1							
Outlet spring range												
0,8 to 6 bar (PS160 – air loaded)		Α										
0,8 to 1,5 bar (PS160 3/4" to 2")		4										
1 to 3 bar (PS160 3/4" to 2")		5										
1,5 to 8 bar (PS160 3/4" to 2")		7										
1 to 4 bar (PS160 21/2" – 3")		9										
Flow capacity												
Kvs – 1,3 (3/4")			1									
Kvs- 3,5 (1")			3									
Kvs – 5,5 (11/2" – 2")			4									
Kvs – 8,5 (2" limited to max. 4 bar inlet pressure.)			6									
Kvs – 19,6 bar (21/2" – 3")			9									
Diaphragm material				-	4							
PTFE (Gylon)				Т	-							
					-							
Valve head						-						
Metal to metal (non-standard)					M	-						
					E	-						
PTFE					T							
FPM / Viton	m#				V							
Regulating knob, top cap and captured ve	nt											
Stainless steel regulating knob Top cap (ajusting screw sealing)						T						
Stainless steel regulating knob w/ diaphragm cover leakage connection in	case of	dianh	raam	failure		Ľ	-					
Top cap (adjusting screw sealing) w/ diaphragm cover leakage connection		<u> </u>				U						
Gauge port options	111 0030		φπαξ	jin ran	uic							
Without gauge ports							х					
Tri-clamp gauge port on the left side (rel. to the flow direction) – upstream	pressure	е					7					
Tri-clamp gauge port on the right side (rel. to the flow direction) – upstream	-						6					
Tri-clamp gauge port on both sides – upstream pressure	•						5					
Threaded gauge port on the left side (rel. to the flow direction) – upstream	е					4						
Threaded gauge port on the right side (rel. to the flow direction) - upstrear						3						
Threaded gauge port on both sides – upstream pressure							2					
Surface finish, special services and	options											
None (fine machined)								Х				
Mechanical polishing								Р				
Electropolishing								Е				
Special features												
None									Х			
Degreased for oxygen									0			
CIP / SIP lock system (not available for PS version)									С			
Pipe connections										_		
Clamp ferrule ASME BPE										D		
ETO according to ASME BPE										DI		
Size												
3/4" 1"											20	
											25	
11/2"											40	
2"											50 65	
21/2" 3"											65 80	
	/ Extra -										80	
Special valves Full description or additional codes have to be added in case of a non-star			ation									Е
I fuil description of additional codes have to be added in case of a non-star	iualu CO	ninani	auon									