



SANITARY PRESSURE SUSTAINING VALVE PS-160

DESCRIPTION

The ADCA PS-160 series *direct acting, spring-loaded diaphragm sensing*, pressure sustaining valves, are designed for use on clean steam, compressed air, water and other gases or liquids compatible with the materials of construction.

MAIN FEATURES

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

STANDARD SURFACE FINISH Internal wetted parts: 0,5 microns Ra External : Body and cover– Fine machined (mechanical or electro polished as option)

OPTIONS:	Leakage line connection 1/8" (captured vent).					
	Different soft valves for liquids and gases.					
	Casted	cover	(CF8M)	with	rising	stem
	handwheel for economic reasons.					

USE: Clean steam, compressed air, water and other gases and liquids compatible with the construction.

MODELS: PS-160

AVAILABLE

SIZES: DN3/4", 1", 11/2", 2" ; DN 20, 25, 40, 50.

SPRING RANGES: 0,8 – 1,5 bar; 1 – 3 bar; 1,5 – 8 bar.

CONNECTIONS: Clamp ends or others on request

INSTALLATION: Horizontal installation. Inlet horizontal and vertical outlet angle connection.

ORDER REQUIREMENTS: Type of fluid Maximum operating temperature Inlet pressure and required outlet pressure Capacity (maximum and minimum).

LIMITING CONDITIONS			
Valve model	PS-160		
Body design conditions	PN 16		
Max.upstream pressure	8 bar		
Min.upsteam pressure	0,8 bar		
Max.design temperature *	150 ºC		
*Other on request			

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CE MARKING (PED - European Directive 97/23/EC)			
PN 16	Category		
DN 3/4" to 2"	SEP - art. 3, paragraph3		







DIMENSIONS (Clamp conn.)					
SIZE DN	A	В	с	D	WGT. Kgs
3/4"-20	85	55	200	130	6,7
1"-25	85	55	200	130	6,8
11/2"-40	80	65	210	130	7,6
2"-50	80	70	210	130	7,8

* Different lenghts on request.

Consult factory for certified dimensions

Dimensions subject to change without notice

CAPACITIES				
Valve Size	3/4''-20	1"-25	11/2''-40	2"-50
KVs(m3/h)	1,3* - 3	3,5* - 4,5	5,3	8,5

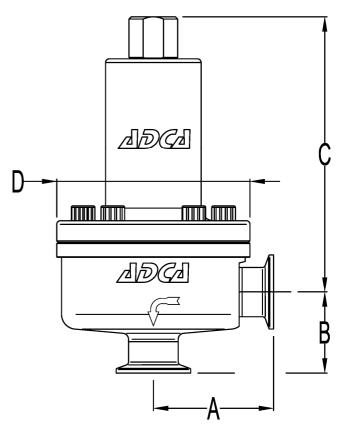
*Max. available Kvs with ASME BPE clamp connection

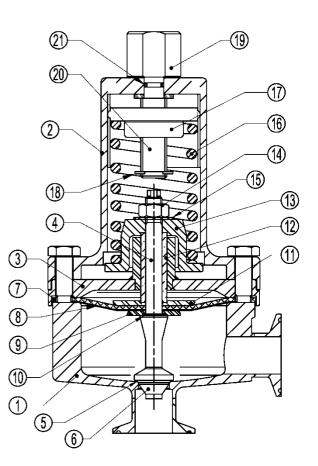
Connection examples				
Clamp	Round thread	Flange		
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MATERIALS				
POS.	DESIGNATION	MATERIAL		
1	Valve body	AISI316L / 1.4404		
2	Cover	AISI316L / 1.4404		
3	Centering plate	AISI316L / 1.4404		
4	* Valve stem	AISi316L/1.4404		
5	* Soft plug	EPDM; PTFE **		
6	* Valve plug	AISI316L / 1.4404		
7	* Upper diaphragm	EPDM;VITON**		
8	* Lower diaphragm	PTFE		
9	Diaphragm plate	AISI316L / 1.4404		
10	* O-ring	EPDM		
11	Diaphragm plate	AISI316L / 1.4404		
12	Stem guide	AISI316 / 1.4401		
13	Spring plate	AISI316 / 1.4401		
14	Nut	St.Steel A2 - 70		
15	Washer	AISI316 / 1.4401		
16	* Adjustment spring	AISI 302 / 1.4300		
17	Top spring plate	AISI316 / 1.4401		
18	Retaining ring	St.Steel A2 - 70		
19	Regulating nut	AISI316L / 1.4404		
20	Adjustment screw	AISI304 / 1.4301		
21	O-ring	EPDM		

* Available spare parts; **Others according to the fluid FDA/USP Class VI seals certificate on request

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





VALSTEAM JDCJ