

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.
Body machined from barstock materials, no wetted parts made from forgings or castings.
Self draining design

STANDARD SURFACE FINISH

Internal parts: 0,5 microns Ra

External :

Body – Fine machined

(polished or electro polished as option)

Cover - satin bead blast finish – 1,6 microns Ra

(polished as option)

OPTIONS: Different soft valves for water and gases.
Regulating screw with top cap.

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

AVAILABLE MODELS:

PS-160

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

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

CONNECTIONS: Clamp end 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	P-160
Body design conditions	PN 16
Max.upstream pressure	8 bar
Min.upsteam pressure	0,8 bar
Max.design temperature *	150 °C

*Other on request.

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	B	C	D	WGT. Kgs
3/4"-20	85	55	260	125	6,7
1"-25	85	55	260	125	6,8
1 1/2"-40	70	70	270	125	7,6
2"-50	70	70	270	125	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	1 1/2"-40	2"-50
KVs (m3/h)	1,3* - 3	3,5	4,5	5,2

*Max. available Kvs with ASME BPE clamp connection

Connection examples

Clamp	Round thread	Flange

MATERIALS

POS.	DESIGNATION	MATERIAL
1	Valve body	AISI316L / 1.4404
2	Cover	AISI316 / 1.4401 ; CF8M / 1.4408
3	Centering plate	AISI316 / 1.4401
4	*Valve plug	AISI316L/1.4404; EPDM-PTFE,etc
5	*Diaphragm	** PTFE;EPDM
6	Pusher disc	AISI316L / 1.4404
7	O-ring	Viton
8	Diaphragm plate	AISI316 / 1.4401
9	Guide	AISI316 / 1.4401
10	Spring plate	AISI316 / 1.4401
11	Nut	St.Steel A2-70
12	Washer	AISI316 / 1.4401
13	*Adjustment spring	St.Steel
14	Top spring plate	AISI316 / 1.4401
15	Locknut	AISI316 / 1.4401
16	Handwheel	Plastic or Stainless steel

* Available spare parts.

**Others according to the fluid

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

