

PRESSURE REDUCING VALVE Clean Steam P-160

DESCRIPTION

The ADCA P-160 series **direct acting, spring-loaded diaphragm sensing**, pressure reducing 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
When the system is depressurised, the valve is open

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.
Lock system, allows clean-in-place (CIP) and sterilization-in-place (SIP) operations with valve in line.
Sealed spring cover with leakage line connection, if hazardous or toxic fluids are used.

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

AVAILABLE MODELS: P-160

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

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

CONNECTIONS: Clamp end or others on request

INSTALLATION: Horizontal installation. Inlet vertical and horizontal 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
Max.downstream pressure	5 bar
Min.downstream 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.

