



SANITARY PRESSURE REDUCING VALVE

P-160

DESCRIPTION

The ADCA P-160 series direct acting, spring-loaded diaphragm sensing , pressure reducing 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: ≤ 0,51 micron Ra – SF1. External : ≤ 0.76 micron Ra – SF3. Other surface conditions see IS PV20.00-Technical information. Ultrasonic cleaning.

- OPTIONS: Leakage line connection 1/8" (captured vent). Different soft valves for liquids and gases. Lock system, allows clean-in-place (CIP) and sterilization-in-place (SIP) operations with valve in line.
- USE: Clean steam, compressed air, water and other gases and liquids compatible with the construction. **AVAILABLE**

MODELS:

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

P-160

OUTLET SPRING RANGES:	0,8 – 1,5 bar; 1 – 3 bar; 1,5 – 5 bar.
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 vacuum sealed with recyclable plastic film to avoid

contamination. **INSTALLATION:** Horizontal installation. Inlet vertical and horizontal outlet angle connection. See IMI. ORDER **REQUIREMENTS:** Type of fluid.

Maximum operating temperature.

Capacity (maximum and minimum).

Inlet pressure and required outlet pressure.

LIMITING CONDITIONS Valve model P-160 Body design conditions PN 16 8 bar Max.upstream pressure 4 bar* Max.downstream pressure 5 bar Min.downstream pressure * 0,8 bar Max.design temperature *** 150 ºC

See capacity table.

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

*** Other on request.

CE MARKING (PED - European Directive)		
PN 16	Category	
3/4" to 2"	SEP	

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CAPACITIES					
Valve Size	3/4"	1"	11/2"	2"	2" *
KVs (m3/h)	1,3	3,5	5,3	5,5	8,5 *

* Limited to a maximum 4 bar inlet pressure.

DIMENSIONS (mm) ASME BPE					
SIZE	A	В	с	D	WGT. Kg
3/4"	85	56	192	130	6,7
1"	85	55	192	130	6,8
11/2"	85	65	199	130	7,6
2"	85	69	205	130	7,8

* Different lenghts on request.

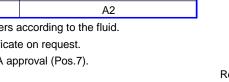
Consult factory for certified dimensions.

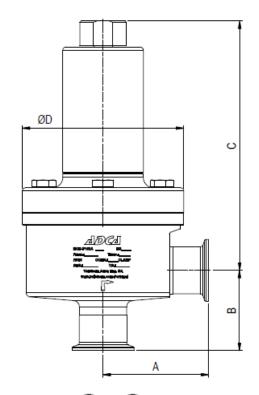
Dimensions subject to change without notice.

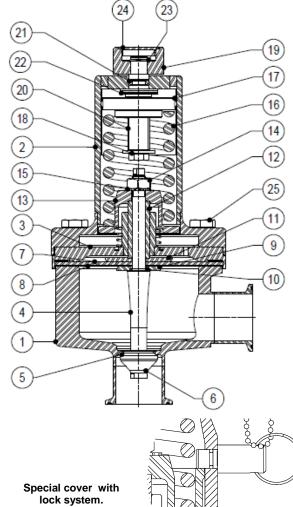
MATERIALS				
POS.	DESIGNATION	MATERIAL		
1	Valve body	AISI316L / 1.4404		
2	Cover	AISI316L / 1.4404		
3	Centering plate	AISI316L / 1.4404		
4	* Valve stem	AISI316L/1.4404		
5	* Soft plug	EPDM; PTFE **		
6	* Valve plug	AISI316L / 1.4404		
7	* Upper diaphragm	EPDM;VITON**		
8	* Lower diaphragm	PTFE		
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 washer	St.Steel A2 - 70		
19	Regulating nut	AISI316L / 1.4404		
20	Adjustment screw	AISI304 / 1.4301		
21	O-ring	EPDM		
22	Bearing	Corrosion res. Steel		
23	Ext. bowed shaft ring	Stainless steel		
24	Cover nut	Plastic		
25	Bolts	A2		

* Available spare parts; **Others according to the fluid. FDA/USP Class VI seals certificate on request. Viton diaphragm only with FDA approval (Pos.7).

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

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