

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.
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.
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:

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 ends 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 DN 2" only 4bar**
Max.downstream pressure	5 bar
Min.downstream pressure	0,8 bar
Max.design temperature *	150 °C

*Other on request.

**Special execution on request with lower Kvs

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	200	130	6,7
1"-25	85	55	200	130	6,8
1 1/2"-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	1 1/2"-40	2"-50
KVs (m3/h)	1,3* - 3	3,5* - 4,5	5,3	** 5,5 - 8,5

*Max.available Kvs with ASME BPE clamp connection

** On request, for maximum inlet pressure higher than 4 bar

Connection examples

Clamp	Round thread	Flange

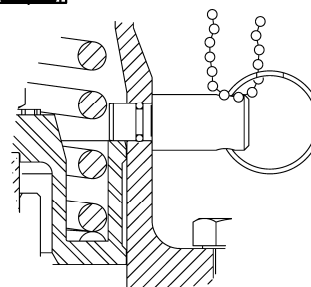
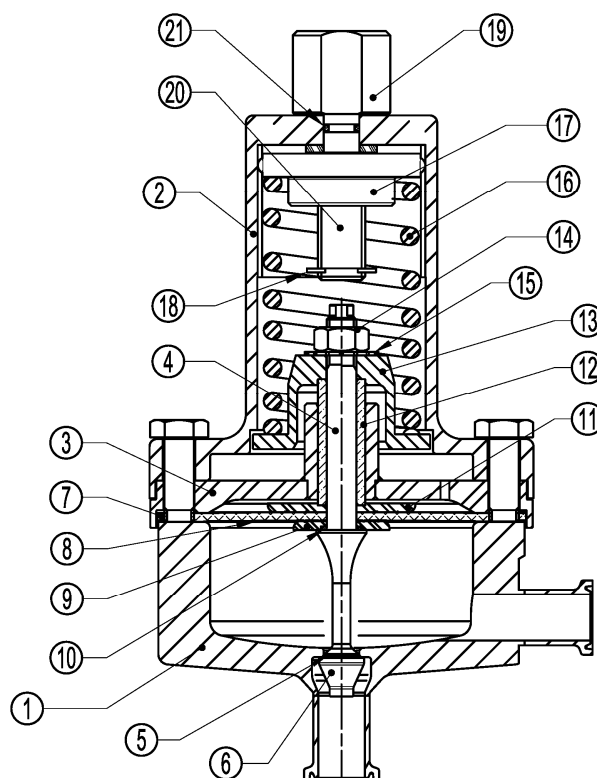
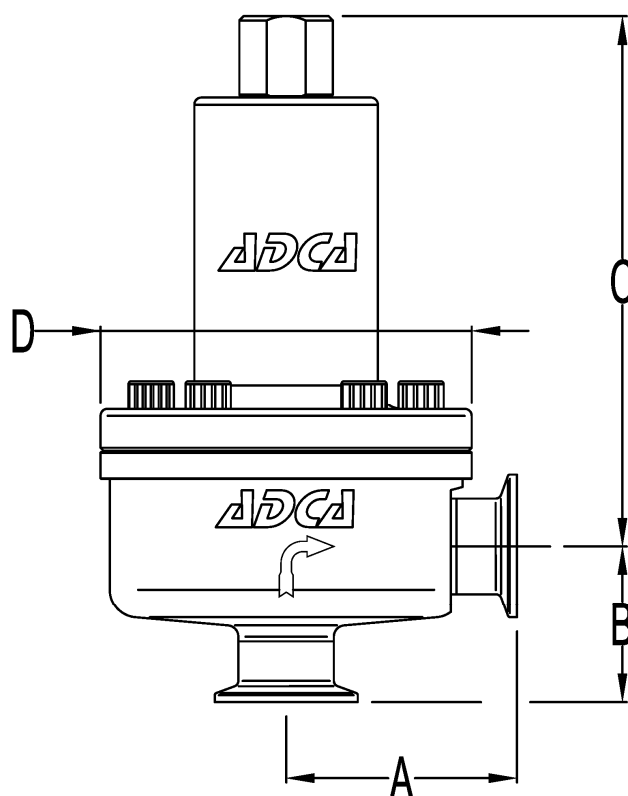
MATERIALS

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.



Lock system