



## SANITARY PRESSURE SUSTAINING VALVE PS-160

## ADCAPURE

## **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", 11/2", 2"; DN 20, 25, 40, 50.

SPRING 0.8 - 1.5 bar; 1 - 3 bar; 1.5 - 8 bar.

RANGES:

Clamp end or others on request

**CONNECTIONS:** 

Horizontal installation. Inlet horizontal and

INSTALLATION: vertical outlet angle connection..

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ORDER Type of fluid

REQUIREMENTS: 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<br>DN               | A  | В  | С   | D   | WGT.<br>Kgs |
| 3/4"-20                  | 85 | 55 | 260 | 125 | 6,7         |
| 1"-25                    | 85 | 55 | 260 | 125 | 6,8         |
| 11/2"-40                 | 70 | 70 | 270 | 125 | 7,6         |
| 2"-50                    | 70 | 70 | 270 | 125 | 7,8         |

<sup>\*</sup> 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      | 5,2   |

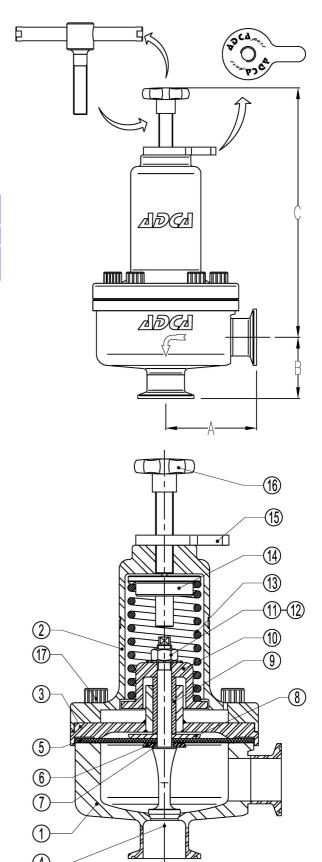
<sup>\*</sup>Max. available Kvs with ASME BPE clamp connection

| Connection examples |   |  |  |
|---------------------|---|--|--|
| Clamp               | Round thread                            | Flange   |  |
|                     | San | Comment of the Commen |  |

| 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        | AlSi316L/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       |

<sup>\*</sup> Available spare parts.

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





<sup>\*\*</sup>Others according to the fluid