

**DIAPHRAGM SENSING PRESSURE SUSTAINING VALVE
PS30SS
DN 1/2" – 2"; DN15 – DN50**

DESCRIPTION

The ADCA PS30 series **direct acting, spring-loaded diaphragm sensing**, pressure sustaining valves, are designed for use on compressed air, water and other gases or liquids compatible with the materials of the construction.

They are suitable for pressure sustaining applications where low capacity is required.

In general this valve maintains the upstream pressure under control.

Connections are female screwed or flanged.

MAIN FEATURES

Compact design.

Machined from barstock materials or investment casting.



OPTIONS: Different soft valves for water and gases.
1/4" gauge connection on body.
Regulating screw with top cap.

USE: Compressed air, water and other gases and liquids compatible with the construction.

Size shown: DN 1/2"

AVAILABLE MODELS: PS30/SS – Stainless steel.

SIZES: DN 1/2" to DN 2"
DN 15 to DN 50

| CAPACITIES | | | | | | |
|------------|-----|-----|-----|-----|------|------|
| Valve Size | 15 | 20 | 25 | 32 | 40 | 50 |
| KVs (m3/h) | 2,1 | 2,4 | 6,5 | 7,2 | 12,7 | 13,7 |

CONNECTIONS: Female screwed ISO7/1Rp(BS 21) or NPT.
Flanged EN 1092-1 PN40-PN63.
Special flanges upon request.

| LIMITING CONDITIONS | |
|--------------------------|---------|
| Valve model | PS30SS |
| Body design conditions | PN 63 |
| Max.upstream pressure | 15 bar |
| Min.upstream pressure | 0,2 bar |
| Max.design temperature * | 80 °C |

*Other on request.

INSTALLATION: Horizontal installation.
An "Y" strainer should be provided upstream the valve.
See IMI, installation and maintenance instructions.

ORDER REQUIREMENTS : Type of fluid
Maximum operating temperature
Required opening pressure
Capacity (maximum and minimum).

| CE MARKING (PED-European Directive 97/23/EC) | |
|--|--------------------------|
| PN 16-PN63 | Category |
| DN 15 to 20 | SEP - art. 3, paragraph3 |
| DN 25 to 32 | SEP - art. 3, paragraph3 |
| DN 40 to 50 | 1 (CE Marked) |

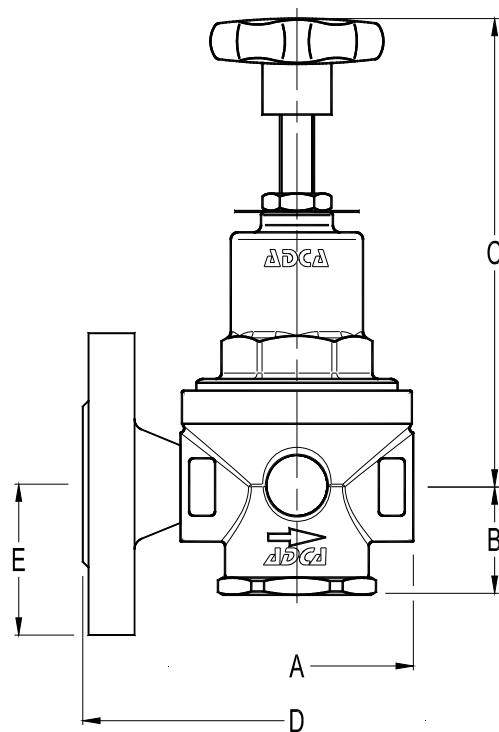
| DIMENSIONS (mm)-Screwed | | | | |
|-------------------------|-----|----|-----|----------|
| SIZE DN | A | B | C | WGT. Kgs |
| 1/2"-15 | 80 | 38 | 142 | 1,8 |
| 3/4"-20 | 80 | 38 | 142 | 1,8 |
| 1" - 25 | 125 | 66 | 285 | 5,7 |
| 11/4"-32 | 125 | 66 | 285 | 5,7 |
| 11/2"-40 | 195 | 90 | 270 | 13 |
| 2" - 50 | 205 | 90 | 270 | 13,4 |

* Different lengths on request.

| DIMENSIONS (mm) - Flanged | | | | | | |
|---------------------------|-----------|------|--------------------------|-----|-----------|----------|
| EN 1092-1 Fig.PN16/PN40 | | | EN 1092-1 Fig.PN63/PN100 | | | |
| SIZE DN | D* | E | WGT. Kgs | D* | E | WGT. Kgs |
| 15 | 150 | 47,5 | 3,2 | 210 | 52,5 | 4 |
| 20 | 150 | 52,5 | 3,8 | 230 | 70 | 6 |
| 25 | 160 (230) | 57,5 | 8,3 | 230 | 70 | 10,3 |
| 32 | 260 | 70 | 8,6 | 260 | 77,5 | 12,2 |
| 40 | 200 | 75 | 17,5 | 260 | 85 | 24,9 |
| 50 | 230 | 82,5 | 18,5 | 300 | 90/**97,5 | 28,4 |

* Different lengths and connections on request. ** PN100

() Alternative length



Size shown: DN 1/2"

| MATERIALS | | |
|-----------|---------------------|----------------------------------|
| POS. | DESIGNATION | MATERIAL |
| 1 | VALVE BODY | AISI316 / 1.4401 ; CF8M / 1.4408 |
| 2 | TOP COVER | AISI316 / 1.4401 ; CF8M / 1.4408 |
| 3 | SEAT COVER | AISI316 / 1.4401 ; CF8M / 1.4408 |
| 4 | * O-RING | NBR |
| 5 | VALVE SEAT | AISI316 / 1.4401 |
| 6 | SEALING | NBR |
| 7 | * O-RING | NBR-EPDM-PTFE,etc |
| 9 | VALVE PLUG | AISI316 / 1.4401 |
| 10 | * DIAPHRAGM | PTFE |
| 11 | * DIAPHRAGM | **NBR |
| 12 | GASKET | **RUBBER |
| 13 | SPRING PLATE | AISI304 / 1.4301 |
| 14 | NUT | ST.STEEL A2-70 |
| 15 | * ADJUSTMENT SPRING | SPRING STEEL |
| 16 | TOP SPRING PLATE | BRASS |
| 17 | ADJUSTMENT SCREW | AISI304 / 1.4301 |
| 18 | LOCKNUT | ST.STEEL A2-70 |
| 19 | HANDWHEEL | PLASTIC |
| 20 | SPRING IDENT. PLATE | ALUMINIUM |

* Available spare parts. ** Stainless steel 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.

