



DIAPHRAGM SENSING PRESSURE SUSTAINING VALVE PS30SS

1/2" - 2"; DN 15 - DN 50

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.

This valve main purpose is to maintain the upstream pressure under control.

Connections are female screwed or flanged.



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.

AVAILABLE

MODELS: PS30SS – Stainless steel.

SIZES: 1/2" to 2".

DN 15 to DN 50.

CONNECTIONS: Female screwed ISO7/1Rp (BS 21) or NPT.

Flanged EN 1092-1 PN40-PN63. Special flanges upon request.

INSTALLATION: Horizontal installation.

An "Y" strainer should be installed upstream

the valve.

See IMI - Installation and maintenance

instructions.

ORDER

REQUIREMENTS: Type of fluid.

Maximum operating temperature.

Required opening pressure capacity

(maximum and minimum).



PS30SS 1/2" - DN 15

CE MARKING – GROUP 2 (PED – European Directive)				
PN40 / PN63	Category			
1/2" to 11/4" – DN 15 to 32	SEP			
11/2" to 2" – DN 40 to 50	1 (CE marked)			

CAPACITIES						
Valve size (DN)	15	20	25	32	40	50
Kvs (m³/h)	2,1	2,4	6,5	7,2	12,7	13,7

LIMITING CONDITIONS					
Valve model	PS30SS				
Body design conditions	PN63				
Max. upstream pressure	15 bar				
Min. upstream pressure	0,2 bar				
Max. design temperature	80 °C				

^{*} Other on request

Warning: Sustaining valves are not a substitute for safety valves or vacuum relief valves.







DIMENSIONS (mm) - SCREWED					
SIZE	Α	В	С	WGT. (kg)	
1/2" – DN 15	80	38	175	1,8	
3/4" - DN 20	80	38	175	1,8	
1" – DN 25	105	66	250	6,3	
11/4" – DN 32	125	66	250	7,5	
11/2" – DN 40	205	86	270	13	
2" - DN 50	201	80	274	13,3	

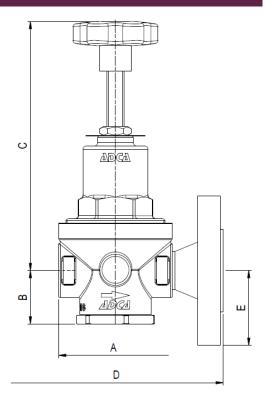
Different face to face dimensions.

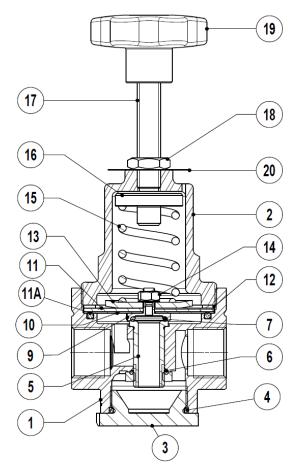
DIMENSIONS (mm) - FLANGED							
PN16 / PN40				PN63 / PN100			
SIZE	D *	E	WGT. (kg)	D *	E PN63	E PN100	WGT. (kg)
1/2" – DN 15	150	47,5	3,2	210	52,5	52,5	4
3/4" – DN 20	150	52,5	3,8	230	70	70	6
1" – DN 25	160 (230)	57,5	8,5 (10,5)	230	70	70	12,8
11/4" – DN 32	260	70	11,4	260	77,5	77,5	14,4
11/2" – DN 40	200	75	16,3	260	85	85	20,3
2" - DN 50	230 **	82,5	18,5	300	90	97,5	22,8
11/4" - DN 32 11/2" - DN 40	260 200 230 **	70 75 82,5	11,4 16,3 18,5	260 260 300	77,5 85 90	77,5 85	14,

MATERIALS					
POS. Nº	DESIGNATION	MATERIAL			
1	Valve body (a)	CF8M / 1.4408 (AISI 316 / 1.4401)			
2	Top cover (b)	CF8M / 1.4408 (AISI 316 / 1.4401)			
3	Seat cover (a)	CF8M / 1.4408 (AISI 316 / 1.4401)			
4	* O-ring	NBR			
5	Valve seat	AISI 316 / 1.4401			
6	Sealing	NBR			
7	* O-ring	NBR-EPDM-PTFE, etc.			
9	Valve plug	AISI 316 / 1.4401			
10	* Diaphragm	PTFE			
11	* Diaphragm	NBR			
11A	* O-ring	NBR-EPDM-PTFE, etc.			
12	Gasket	Aluminium			
13	Spring plate	AISI 304 / 1.4301			
14	Nut	Stainless steel A2-70			
15	* Adjustment spring	Spring steel			
16	Top spring plate	Brass			
17	Adjustment screw	AISI 304 / 1.4301			
18	Locknut	Stainless steel A2-70			
19	Handwheel	Plastic			
20	Spring Id. plate	Aluminium			

^{*} Available spare parts.

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







^{*} Different lenghts and ANSI flanges available on request.

** Only available with flat flanges EN 1092-1 type 01 A. Welding neck type 11 B flanges as option with 300 mm minimum face to face dimensions. (): Alternative.

a) Barstock execution on request (standard for sizes DN32-50).

b) Barstock execution on request.