



DIAPHRAGM SENSING PRESSURE SUSTAINING VALVE PS30

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.

MAIN FEATURES

Compact design.

Machined from bar stock materials or investment casting.

OPTIONS: Different soft valves for water and gases.

1/4" gauge connection on body.

Top cap (adjustment screw with cover).

USE: Compressed air, water and other gases and

liquids compatible with the construction.

AVAILABLE

MODELS: PS30SS – stainless steel, diaphragm sensing.

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

CONNECTIONS: Female threaded ISO 7 Rp or NPT.

Flanged EN 1092-1 PN 40 or PN 63.

INSTALLATION: Horizontal installation.

A "Y" strainer should be installed upstream of the

valve.

See IMI - Installation and maintenance

instructions.



PS30SS 1/2" - DN 15

FLO	DW RA	LE COF	FFICIE	ENTS (r	n³/h)	
SIZE (DN)	15	20	25	32	40	50
Kvs	2,1	2,4	6,5	7,2	12,7	13,7

LIMITING CONDITION	S
Valve model	PS30SS
Body design conditions	PN 63
Maximum upstream pressure	15 bar
Minimum upstream pressure	0,2 bar
Maximum design temperature *	80 °C
± 0.1	-

^{*} Others on request.

Warning: A pressure sustaining valve is not a safety relief valve and must not be used for that purpose!

CE MARKING – GROUP 2 (PED – European Directive)							
PN 63	Category						

PN 63 Category

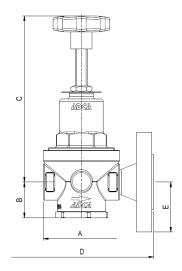
1/2" to 11/4" – DN 15 to 32 SEP

11/2" to 2" – DN 40 to 50 1 (CE marked)







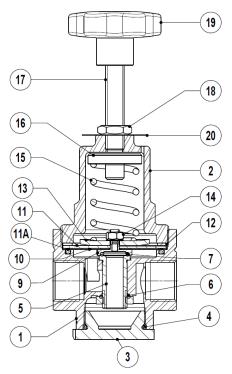


	DIMENSIONS (mm)											
THREADED			PN 40			PN 63 / PN 100						
SIZE	Α	В	С	WEIGHT (kg)	D *	E	E WEIGHT D*			E PN 100	WEIGHT (kg)	
1/2" – DN 15	80	38	175	1,8	150	47,5	3,2	210	52,5	52,5	4	
3/4" – DN 20	80	38	175	1,8	150	52,5	3,8	230	70	70	6	
1" – DN 25	105	66	250	6,3	160 (230)	57,5	8,5 (10,5)	230	70	70	12,8	
11/4" – DN 32	125	66	250	7,5	260	70	11,4	260	77,5	77,5	14,4	
11/2" – DN 40	205	86	270	13	200	75	16,3	260	85	85	20,3	
2" – DN 50	205	80	274	13,3	230 **	82,5	18,5	300	90	97,5	22,8	

^{*} Different lenghts and ASME flanges available on request;

^{():} Alternative.

MATERIALS									
POS.	DESIGNATION	MATERIAL							
1	Valve body a)	A351 CF8M / 1.4408 (AISI 316 / 1.4401)							
2	Top cover b)	A351 CF8M / 1.4408 (AISI 316 / 1.4401)							
3	Seat cover a)	A351 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.

- a) Bar stock execution on request (standard for sizes DN 32 to DN 50).
- b) Bar stock execution on request.



^{**} Only available with flat flanges EN 1092-1 type 01 Å. Welding neck type 11 B flanges as option with 300 mm minimum face to face dimensions.





	DES PS30											
Valve model	PS30	-	1	W	N	С	R	4			Α	15
PS30SS – diaphragm sensing pressure sustaining valve	PS30											
Regulating range												
Nº1 − 0,2 to 1,5 bar			1									
$N^{\circ}2 - 0.3$ to 3 bar			2									
N°3 – 0,8 to 8 bar			3									
Nº4 − 1,5 to 15 bar			4									
Application												
Water				W								
Gases				G								
Oxygen (degreased)				0								
Seal material a)												
NBR					N							
EPDM					Е							
PTFE					Т							
FPM / Viton					٧							
Maximum inlet pressure												
15 bar						С]					
							1					
Diaphragm							1					
Rubber / PTFE							R					
Gauge port 1/4"								1				
Without gauge ports								(1)]			
Gauge port on the left side (relative to the flow direction)								4]			
Gauge port on the right side (relative to the flow direction)								3]			
Gauge ports on both sides								2				
Relieving										1		
Non-relieving										(1)		
Relieving										R		
Pipe connection										-		
Female threaded ISO 7 Rp											Α	
Female threaded NPT ASME B1.20.1										С		
Socket weld (SW) ASME B16.11											Н	
Butt weld (BW) ASME B16.25							-				ı	
Flanged EN 1092-1 PN 40											N	
Flanged EN 1092-1 PN 63											0	
Flanged ASME B16.5 Class 150											U	
Flanged ASME B16.5 Class 300							-				V	
Flanged ASME B16.5 Class 600							-				w	
Size												
1/2" or DN 15												15
3/4" or DN 20												20
												20
Special valves	Extrac											
Special valves /	d combinat											

- (1) Omitted if a standard valve is requested.
- a) Valve limited to the materials maximum operating temperature. Consult manufacturer for more details.