



### DIAPHRAGM SENSING PRESSURE SUSTAINING VALVE PS30SS

#### DESCRIPTION

The ADCA PS30SS is a series of direct acting, spring-loaded, diaphragm sensing pressure sustaining valves.

These regulators are designed for use with compressed air, water and other gases and liquids compatible with the construction materials and valve design.

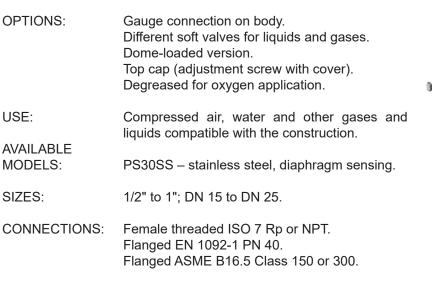
They are suitable for pressure sustaining applications at the point of use in laundry and dyeing machines, food industries, sterilizers, etc.

#### MAIN FEATURES

#### Compact design.

Full stainless steel construction.

Various sealing options to meet compatibility requirements.



INSTALLATION: Horizontal installation. See IMI – Installation and maintenance instructions.



1/2" to 3/4" - DN 15 to DN 20



1" – DN 25



1/2" to 3/4" - DN 15 to DN 20

1" – DN 25

CE MARKING – GROUP 2 (PED – European Directive)					
PN 63	Category				
1/2" to 1" – DN 15 to 25	SEP				

FLOW RATE COEFFICIENTS (m <sup>3</sup> /h)								
SIZE	1/2" – DN 15	3/4" – DN 20	1" – DN 25					
Kvs	2,1	2,4	6,5					



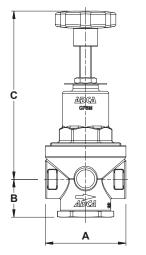


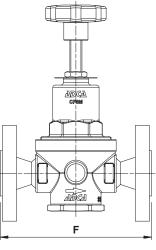


LIMITING CONDITIONS							
Valve model	PS30SS						
Body design conditions	Cl. 150	Cl. 300	PN 40	PN 63 *			
Max. upstream pressure	15 bar						
Min. upstream pressure		0,2	bar				
Max. design temperature		80 9	°C				
Maximum dome-loading pressure		15 k	bar				

\* Rating PN 63 for threaded versions.

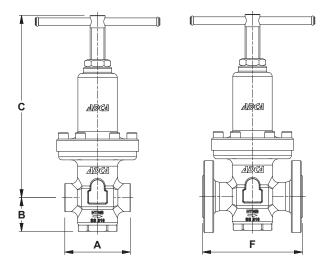
Warning: A pressure sustaining valve is not a safety relief valve and must not be used for that purpose!



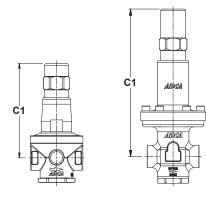


1/2" to 3/4" - DN 15 to DN 20

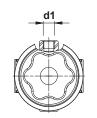
**OPTIONS** PRESSURE DOME LOADED TOP CAP VERSION GAUGE

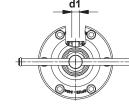


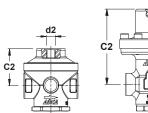
1" – DN 25

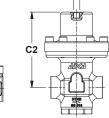


Optional top cap









d2

Optional dome-loaded version

**DIMENSIONS** (mm) THREADED PN 40 **CLASS 150** CLASS 300 WGT. WGT. WGT. WGT. SIZE С **C1** d1 C2 d2 **F** \* F \* F \* Α В (kg) (kg) (kg) (kg) 1/2" – DN 15 1/4" 80 38 167 145 1/4" 55 2,1 150 3,6 150 2,9 150 3,9 3/4" – DN 20 1/4" 80 38 167 145 55 1/4" 2 150 4,1 150 3,3 150 4,3 1" – DN 25 105 54 292 300 1/4" 153 1/4" 6,6 160 9,3 230 8,5 230 9,7

Optional pressure gauge

connection

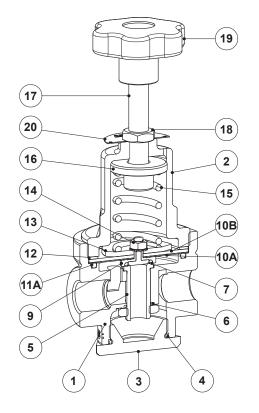
\* Different face to face dimensions on request.

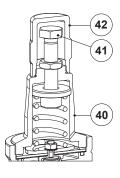
Remarks: As standard, in versions manufactured with EN 1092-1 flanges or ISO 7 Rp threads, connections d1 and d2 are female threaded ISO 7 Rp. In versions with ASME B16.5 flanges or NPT threads, these connections are female threaded NPT.



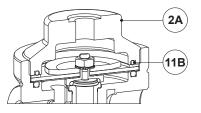






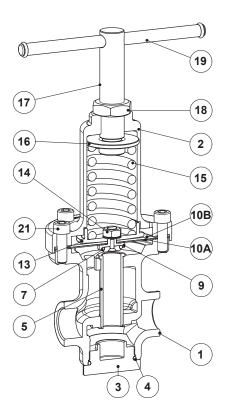


Optional top cap

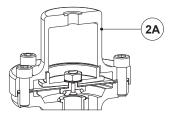


Optional dome-loaded version

1/2" to 3/4" - DN 15 to DN 20



Optional top cap



Optional dome-loaded version

1" – DN 25

# VALSTEAM ADCA





MATERIALS							
POS. Nº	DESIGNATION	1" – DN 25					
1	Valve body	A351 CF8M / 1.4408	A351 CF8M / 1.4408				
2	Spring cover	A351 CF8M / 1.4408	A351 CF8M / 1.4408				
2A	Cover	AISI 316L / 1.4404	AISI 316L / 1.4404				
3	Bottom cover	A351 CF8M / 1.4408	A351 CF8M / 1.4408				
4	* O-ring	NBR; EPDM; PTFE; FPM	NBR; EPDM; PTFE; FPM				
5	Valve seat	AISI 316 / 1.4401	AISI 316 / 1.4401				
6	* O-ring	NBR; EPDM; PTFE; FPM	_				
7	* O-ring	NBR; EPDM; PTFE; FPM	NBR; EPDM; PTFE; FPM				
9	Pusher disc	AISI 316 / 1.4401	AISI 316 / 1.4401				
10A	* Lower diaphragm	PTFE	PTFE				
10B	* Upper diaphragm	NBR	NBR				
11A	* O-ring	NBR; EPDM; PTFE; FPM	_				
11B	* O-ring	NBR; EPDM; PTFE; FPM	_				
12	Gasket	Aluminium	_				
13	Spring plate	AISI 304 / 1.4301	AISI 304 / 1.4301				
14	Nut	Stainless steel A2-70	Stainless steel A2-70				
15	* Adjustment spring	AISI 302 / 1.4300	AISI 302 / 1.4300				
16	Top spring plate	Brass	AISI 316 / 1.4401				
17	Adjustment stem	AISI 304 / 1.4301	AISI 304 / 1.4301				
18	Locknut	Stainless steel A2-70	Stainless steel A2-70				
19	Handwheel	Plastic	AISI 304 / 1.4301				
20	Spring id. plate	Aluminium	_				
21	Bolts	-	Stainless steel A2-70				
40	Cover	AISI 316L / 1.4404	A351 CF8M / 1.4408				
41	Adjustment screw	Stainless steel A2-70	_				
42	Тор сар	AISI 316L / 1.4404	AISI 316L / 1.4404				

\* Available spare parts.

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

### VALSTEAM ADCA





ORDERING COL	DES PS30S	5										
Valve model	PS30		1	W	Ν	С	R	4	R		Α	15
PS30SS – diaphragm sensing pressure sustaining valve	PS30											
Regulating range												
Nº 1 – 0,2 to 1,5 bar			1									
Nº 2 – 0,3 to 3 bar			2									
Nº 3 – 0,8 to 8 bar			3									
Nº 4 – 1,5 to 15 bar			4									
0,2 to 15 bar (dome-loaded) a)			Α									
Application												
Water				w								
Gases				G								
Oxygen (degreased)				0								
Seal material												
NBR					N							
EPDM					Е							
PTFE b)					Т							
FPM / Viton					V							
Maximum inlet pressure												
15 bar						С						
Diaphragm												
NBR / PTFE (only NBR in case of dome-loaded version)							R					
Gauge port 1/4"												
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	]			
Top cap and relieving												
Non-relieving									(1)			
Non-relieving with top cap (adjustment screw with cover)									Т	]		
Dome-loaded top c)									X			
Pipe connection												
Female threaded ISO 7 Rp											Α	
Female threaded NPT ASME B1.20.1											С	
Flanged EN 1092-1 PN 40											Ν	
Flanged ASME B16.5 Class 150											U	
Flanged ASME B16.5 Class 300											V	
Size												
1/2" or DN 15												15
3/4" or DN 20												20
1" or DN 25												25
Special valves /	Extras											
Full description or additional codes have to be added in case of non-standa	rd combinat	ion.										

(1) Omitted if a standard valve is requested.

a) The loading control pressure can be up to a maximum of 1,2 bar above the required downstream pressure.

b) All seals except piston o-ring, which is supplied in FPM/Viton or others on request.

c) This option must be chosen in case of dome-loaded version.

## VALSTEAM ДДСД