

### DIAPHRAGM SENSING PRESSURE REDUCING VALVES PRV30SS (1/2" to 1" – DN 15 to DN 25)

### DESCRIPTION

The ADCA PRV30SS is a series of direct acting, spring-loaded, diaphragm sensing and balanced plug pressure reducing 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 reducing applications at the point of use in laundry and dyeing machines, food industries, sterilizers, etc.

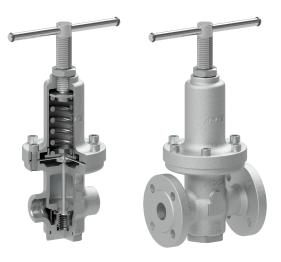
#### MAIN FEATURES

Compact design. Built-in strainer. Balanced valve plug. Full stainless steel construction. Various sealing options to meet compatibility requirements.

OPTIONS:	Self relieving. Gauge connection on body. Different soft valves for liquids and gases. Dome-loaded version. Top cap (adjustment screw with cover). Degreased for oxygen application.
USE:	Compressed air, water and other gases and liquids compatible with the construction.
AVAILABLE MODELS:	PRV30SS – stainless steel, diaphragm sensing.
SIZES:	1/2" to 1"; DN 15 to DN 25.
CONNECTIONS:	Female threaded ISO 7 Rp or NPT. Flanged EN 1092-1 PN 40. Flanged ASME B16.5 Class 150 or 300.

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





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

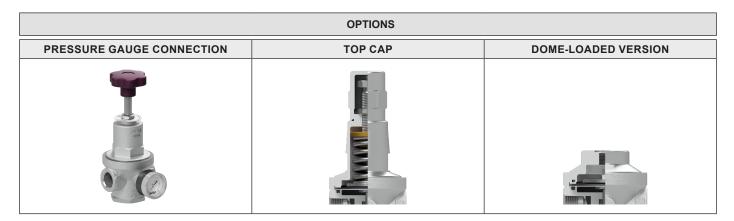
	FLOW RATE COEFFICIENTS (m <sup>3</sup> /h)									
SIZE	SIZE 1/2" – DN 15 3/4" – DN 20									
Kvs	2,1	2,4	6,5							

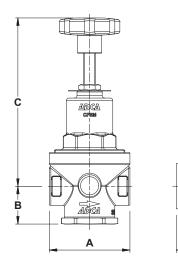
LIMITING CO	NDITIO	NS				
Valve model		PRV	30SS			
Body design conditions	Cl. 150	CI. 300	PN 40	PN 63 *		
Max. upstream pressure	16 bar	40 bar	40 bar	50 bar		
Max. downstream pressure		15	bar			
Min. downstream pressure	0,2 bar					
Max. design temperature		80	°C			
Max. recommended reducing ratio		40	):1			
Max. dome-loading pressure	15 bar					
* Rating PN 63 for threaded version	ıs.					

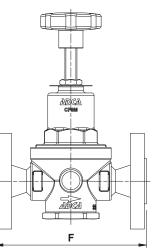
## VALSTEAM ДДСД

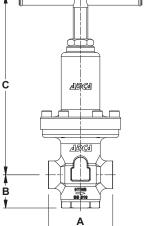


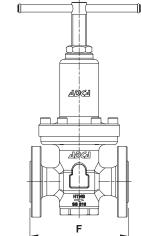






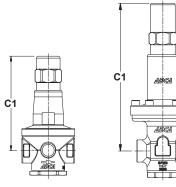






1" – DN 25

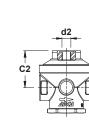
1/2" and 3/4" - DN 15 and DN 20

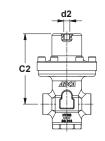


Optional top cap



Optional pressure gauge connection





Optional dome-loaded version

						DIMENS	SIONS (m	m)						
			THR	READED					PN	40	CLAS	S 150	CLAS	S 300
SIZE	А	В	С	C1	d1	C2	d2	WGT. (kg)	F *	WGT. (kg)	F *	WGT. (kg)	F *	WGT. (kg)
1/2" – DN 15	80	38	167	145	1/4"	55	1/4"	2,1	150	3,6	150	3	150	3,6
3/4" – DN 20	80	38	167	145	1/4"	55	1/4"	2	150	4,1	150	3,4	150	4,5
1" – DN 25	105	54	292	300	1/4"	153	1/4"	6,6	160	9,3	230	8,5	230	9,7

\* Different face to face dimensions on request.

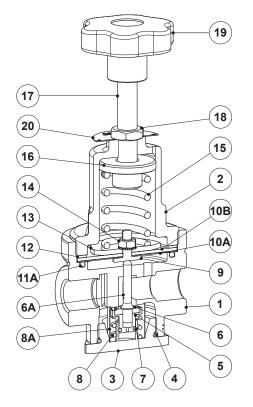
Remarks: As standard, in versions manufactured with EN 1092-1 flanges or ISO 7 Rp threads, connections d1 and d2 are female threaded ISO 7 Rp. In versions with ASME B16.5 flanges or NPT threads, these connections are female threaded NPT.

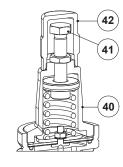
# VALSTEAM ДЭСД



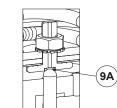


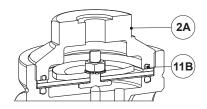
### MATERIALS





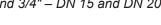
Optional top cap

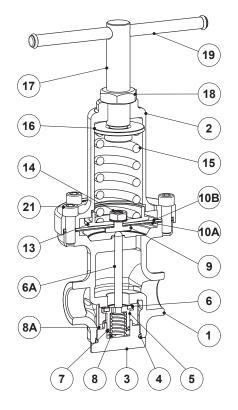


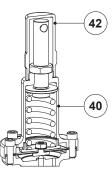


Optional relieving version Optional dome-loaded version

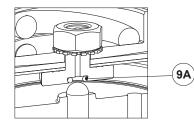
1/2" and 3/4" - DN 15 and DN 20



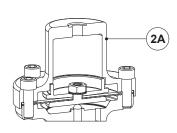




Optional top cap



Optional relieving version



Optional dome-loaded version

1" – DN 25





		MATERIALS	
POS. Nº	DESIGNATION	1/2" and 3/4" – DN 15 and DN 20	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	* Piston	AISI 316 / 1.4401	AISI 316 / 1.4401
6	* Valve head	NBR; EPDM; PTFE; FPM	NBR; EPDM; PTFE; FPM
6A	* Pushrod	AISI 316 / 1.4401	AISI 316 / 1.4401
7	* Piston o-ring	NBR; EPDM; FPM	NBR; EPDM; FPM
8	* Valve spring	AISI 302 / 1.4300	AISI 302 / 1.4300
8A	* Strainer screen	AISI 304 / 1.4301	AISI 304 / 1.4301
9	Pusher disc	AISI 304 / 1.4301	AISI 304 / 1.4301
9A	* O-ring	NBR; EPDM; FPM	NBR; EPDM; FPM
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.



Valve model	R30 .	1	W	Ν	С	R	4	R		Α	15
PRV30SS – diaphragm sensing pressure reducing valve	R30										
Regulating range											
№ 1 – 0,2 to 1,5 bar		1									
№ 2 – 0,3 to 3 bar		2									
№ 3 – 0,8 to 8 bar		3									
№ 4 – 1,5 to 15 bar		4									
0,2 to 15 bar (dome-loaded) <b>a</b> )		Α	ĺ								
Application											
Water			w								
Gases			G								
Oxygen (degreased)			0								
Seal material											
NBR				N	1						
EPDM				Е	1						
PTFE b)				т	1						
FPM / Viton				v	1						
Maximum inlet pressure					1						
30 bar					С	1					
50 bar <b>c)</b>					D						
Diaphragm											
NBR / PTFE (only NBR in case of dome-loaded version)						R	1				
Gauge port options							1				
Without gauge ports							(1)	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	1			
Gauge ports on both sides							2	1			
Top cap and relieving								1			
Non-relieving								(1)	1		
Relieving (only for non-dangerous gases)								R			
Non-relieving with top cap (adjustment screw with cover)								Т			
Relieving with top cap (adjustment screw with cover, only for non-dangerous	gases)							V			
Dome-loaded top d)								X			
Pipe connection										1	
Female threaded ISO 7 Rp										Α	]
Female threaded NPT ASME B1.20.1										С	
Flanged EN 1092-1 PN 40										N	
Flanged ASME B16.5 Class 150										U	]
Flanged ASME B16.5 Class 300										v	1
Size											1
1/2" or DN 15											15
3/4" or DN 20											20
1" or DN 25											25
Special valves / I	Extras										
Full description or additional codes have to be added in case of non-standard	d combinatio	on.									

(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) Only available with spring nº 4.

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