

DIAPHRAGM SENSING PRESSURE REDUCING VALVES PRV30SS (1" to 2" – DN 25 to DN 50)

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

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

MODELS: PRV30SS – stainless steel, diaphragm sensing.

SIZES: 1" to 2"; DN 25 to DN 50.

CONNECTIONS: Female threaded ISO 7 Rp or NPT (only available from 11/4" to 2"). Flanged EN 1092-1 PN 40 (only available from DN 32 to DN 50) or PN 63. Flanged ASME B16.5 Class 150 or 300 (only available from 11/4" to 2") or Class 600.

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

CE MARKING – GROUP 2 (PED – European Directive)

Class 150	PN 40 / PN 63 Class 300 / Class 600	Category
1" to 2" DN 25 to 50	1" and 11/4" DN 25 and DN 32	SEP
-	11/2" and 2" DN 40 and DN 50	1

	FLOW RATE	E COEFFICIE	NTS (m³/h)	
SIZE	1" DN 25	11/4" DN 32	11/2" DN 40	2" DN 50
Kvs	6,5	7,2	12,7	13,7

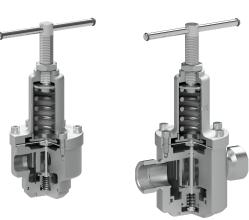
LIMITING C	ONDIT	IONS					
Valve model	PRV30SS						
Body design conditions	CI. 150	CI. 300	CI. 600	PN 40	PN 63 *		
Max. upstream pressure	16 bar	40 bar	50 bar	40 bar	50 bar		
Max. downstream pressure			15 bar				
Min. downstream pressure			0,2 bai	r			
Max. design temperature			80 °C				
Max. recommended reducing ratio			40:1				
Max. dome-loading pressure			15 bar				
* Dating DN 62 for threaded varia							

^r Rating PN 63 for threaded versions.

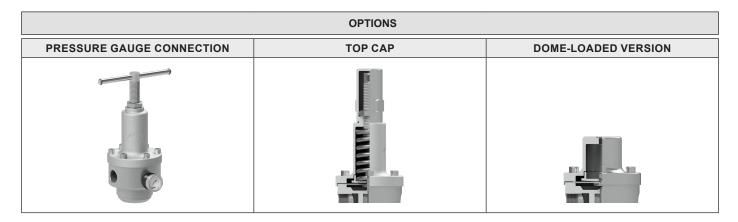
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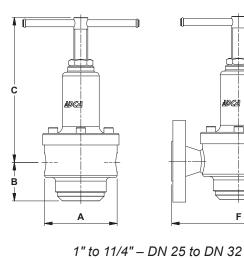
We reserve the right to change the design and material of this product without notice

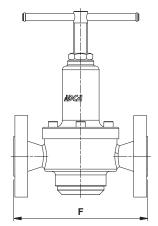


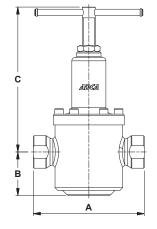


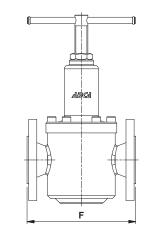




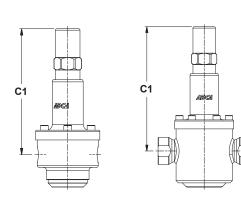




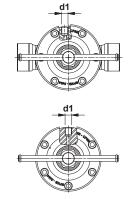




11/2" to 2" - DN 40 to DN 50



Optional top cap



Optional pressure gauge connection

Optional dome-loaded version

							DII	MENSIC	ONS (m	ım)								
THREADED					PN	I 40	PN 63		CLASS 150		CLASS 300		CLASS 600					
SIZE	Α	В	с	C1	d1	C2	d2	WGT. (kg)	F*	WGT. (kg)	F *	WGT. (kg)	F *	WGT. (kg)	F*	WGT. (kg)	F*	WGT. (kg)
1" – DN 25 **	125	66	249	257	1/4"	110	1/4"	-	_	-	230	14,1	_	-	_	-	230	12,5
11/4" – DN 32	125	66	249	257	1/4"	110	1/4"	8,7	260	12,6	260	14,9	260	11,7	260	12,8	260	13,6
11/2" – DN 40	205	81	268	276	1/4"	129	1/4"	12,4	201	16,3	260	20,1	235	15,9	248	18,1	264	19,2
2" – DN 50	205	75	274	270	1/4"	123	1/4"	13,2	230	18,2	300	21,3	254	16,7	267	18,6	300	21

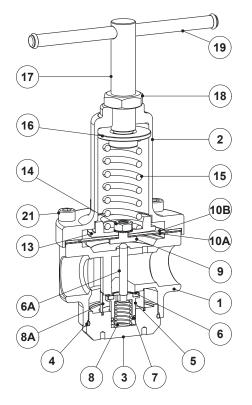
* Different face to face dimensions on request; ** Only available with PN 63 and Class 600 flanged connections. Remarks: As standard, in versions manufactured with EN 1092-1 flanges or ISO 7 Rp threads, connections d1 and d2 are female threaded ISO 7

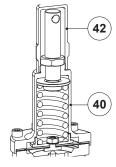
Rp. In versions with ASME B16.5 flanges or NPT threads, these connections are female threaded NPT.

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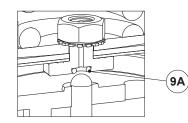


MATERIALS



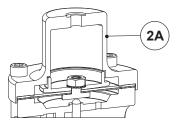


Optional top cap

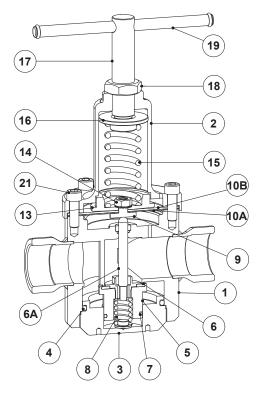


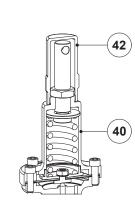
Optional relieving version

1" and 11/4" - DN 25 and DN 32

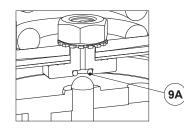


Optional dome-loaded version





Optional top cap



Optional relieving version

Optional dome-loaded version

11/2" and 2" – DN 40 and DN 50

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		MATERIALS	
POS. Nº	DESIGNATION	1" and 11/4" – DN 25 and DN 32	11/2" and 2" – DN 40 and DN 50
1	Valve body	AISI 316 / 1.4401	AISI 316 / 1.4401
2	Spring cover	A351 CF8M / 1.4408	A351 CF8M / 1.4408
2A	Cover	AISI 316 / 1.4401	AISI 316 / 1.4401
3	Bottom cover	AISI 316 / 1.4401	AISI 316 / 1.4401
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	_
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
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	Brass
17	Adjustment stem	AISI 304 / 1.4301	AISI 304 / 1.4301
18	Locknut	Stainless steel A2-70	Stainless steel A2-70
19	Handwheel	AISI 304 / 1.4301	AISI 304 / 1.4301
21	Bolts	Stainless steel A2-70	Stainless steel A2-70
40	Cover	AISI 316L / 1.4404	A351 CF8M / 1.4408
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.

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ORDERING CODES										
Valve model	R30	. 1	W	Ν	С	R	4	R	Α	32
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) a)		Α								
Application										
Water			W							
Gases			G]						
Oxygen (degreased)			0	1						
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 c)					D					
Diaphragm					1					
NBR / PTFE (only NBR in case of dome-loaded version)						R				
Gauge port options							1			
Without gauge ports							(1)			
Gauge port on the left side (relative to the flow direction)							4	1		
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)		
Relieving (only for non-dangerous gases)								R		
Non-relieving with top cap (adjustment screw with cover)								Т		
	2000)							v		
Relieving with top cap (adjustment screw with cover, only for non-dangerous gan Dome-loaded top d)	1505)							X		
								^		
Pipe connection Female threaded ISO 7 Rp									Α	
Female threaded NPT ASME B1.20.1			_						 C	
									 N	
Flanged EN 1092-1 PN 40 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" or DN 25 (only available with PN 63 and Class 600 flanged connections)									 	25
11/4" or DN 32										32
11/2" or DN 40										40
2" or DN 50									 	50
Special valves / Ex										
Full description or additional codes have to be added in case of non-standard of	ombinat	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) Only available with spring n° 4.

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

