



DIAPHRAGM SENSING PRESSURE REDUCING VALVE PRV30SS

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

DESCRIPTION

The ADCA PRV30 series direct acting, spring-loaded diaphragm sensing, balanced plug pressure reducing valves, are designed for use on compressed air, water and other gases or liquids compatible with the construction materials.

They are suitable for pressure reducing stations at the point of use on laundry machines, dyeing, food industries, sterilizers, etc.



Compact design. Balanced valve.

Machined from barstock materials or investment casting.

OPTIONS: Different soft valves for water and gases.

Relieving – Internal relief valve to allow reduced outlet pressure in a no-flow

condition. Built-in strainer.

Outlet 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: PRV30SS – Stainless steel.

SIZES: 1/2" and 3/4".

DN 15 and DN 20.

CONNECTIONS: Female screwed ISO 7/1 Rp (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.

Inlet pressure and required outlet pressure.

Capacity (maximum and minimum).

CE MARKING – GROUP 2 (PED – European Directive)						
PN16 / PN63	Category					
DN 15 to 20	SEP					



CAPACITIES								
Valve size	1/2" – DN 15	3/4" – DN 20						
Kvs (m³/h)	2,1	2,4						

LIMITING CONDITIONS								
Valve model	PRV30SS							
Body design conditions	PN63							
Max. upstream pressure	50 bar							
Max. downstream pressure	15 bar							
Min. downstream pressure	0,2 bar							
Max. design temperature *	80 °C							
Max. recommended reducing ratio	40:1							

^{*} Other on request.



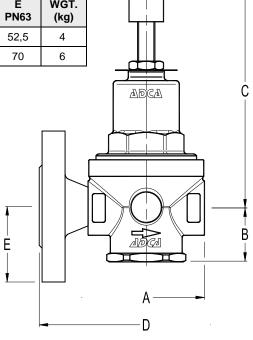


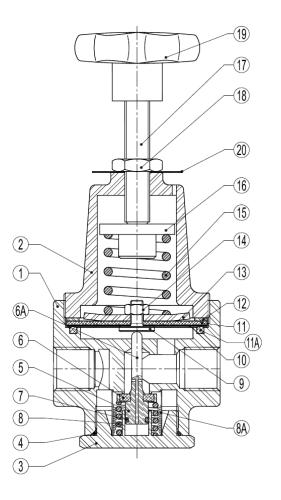
DIMENSIONS (mm)										
Screwed					PN16/40		PN63/100			
Size	Α	В	С	WGT. (kg)	D *	E	WGT. (kg) D*		E PN63	WGT. (kg)
1/2" – DN 15	80	38	175	1,8	150	47,5	3,2	210	52,5	4
3/4" - DN 20	80	38	175	1,8	150	52,5	3,8	230	70	6

* Different lenghts and connections on request. Remarks: DN 15 PN16/40 face to face dimensions were adopted as per DN 20.

MATERIALS									
POS.	DESIGNATION	MATERIAL							
1	Valve body (a)	AISI 316 / 1.4401 (a) CF8M / 1.4408							
2	Top cover (a)	AISI 316 / 1.4401 (a) CF8M / 1.4408							
3	Seat cover (a)	AISI 316 / 1.4401 (a) CF8M / 1.4408							
4	* O-ring	NBR							
5	* Piston valve	AISI 316 / 1.4401							
6	* Valve head	NBR ; EPDM ; PTFE; etc.							
6A	Pushrod	AISI 316 / 1.4401							
7	* O-ring	NBR ; EPDM ; PTFE; etc.							
8	* Valve spring	AISI 302 / 1.4300							
8A	* Strainer screen	AISI 304 / 1.4301							
9	Pusher disc	AISI 304 / 1.4301							
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 ** Stainless steel on request									

^{*} Available spare parts. ** Stainless steel on request. 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.







^{1&}quot; or DN 25 available on special execution and same performance.





ORDERING CODES PRV30SS												
Valve model	R30		1	W	N	С	R				15	
PRV30SS – Diaphragm sensing	R30											
Outlet spring range												
Nº1 − 0,2 to 1,5 bar			1									
Nº2 - 0,3 to 3 bar			2									
Nº3 - 0,8 to 8 bar			3									
Nº4 - 1,5 to 15 bar			4									
Application												
Water				W								
Gases				G								
Oxygen (degreased)				0								
Seal material												
NBR					N							
EPDM					Е							
PTFE					Т							
FPM / Viton					٧							
Maximum inlet pressure					•							
30 bar						С						
50 bar a)						D						
Diaphragm material												
Stainless steel (non relieving)							S					
Rubber / PTFE (Relieving or non-relieving)							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				
Relieving								•				
Non-relieving									(1)			
Relieving (only for non dangerous gases)												
Pipe connection												
Threaded BSP ISO 7/1										Α		
Threaded NPT ANSI B1.20.1										С		
Socket weld SW ANSI B16.11										Н		
Butt weld BW ANSI B16.25										ı		
Flanged EN 1092-1 PN40										N		
Flanged EN 1092-1 PN63										0		
Flanged ANSI B16.5 150 lb										U		
Flanged ANSI B16.5 300 lb										٧		
Flanged ANSI B16.5 600 lb										W		
Size												
1/2" or DN 15											15	
3/4" or DN 20											20	
1" or DN 25 (same performance, with larger connection – special execution	•										25E	
Special valves												
Full description or additional codes have to be added in case of non-standard combination.											E	

⁽¹⁾ Omitted if a standard valve is requested.

a) The 50 bar inlet is available only with spring $n^{\rm o}$ 4.