



HIGH ACCURACY PRESSURE REDUCING VALVE PRV300 11/2" - 2"; DN 40 - DN 50

DESCRIPTION

The ADCA PRV300 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 materials of construction.

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

Connections are female screwed or flanged.



Compact design.

Large high accuracy diaphragm.

Balanced valve plug.

Machined from barstock materials and 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: PRV300/SS – Stainless steel.

SIZES: 11/2" and 2".

DN 40 and DN 50.

CONNECTIONS: Female screwed ISO7/1Rp (BS 21).

Flanged EN 1092-1 PN40 or ANSI.

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



CAPACITIES								
Valve size	11/2" – DN 40	2" - DN 50						
Kvs (m³/h)	12,7	13,7						

LIMITING CONDITIONS							
Valve model	PRV300						
Body design conditions	PN16						
Max. upstream pressure	16 bar						
Max. downstream pressure	1,7 bar						
Min. downstream pressure	0,05 bar						
Max. design temperature *	80 °C						
Max. recommended reducing ratio	40:1						

^{*} Others on request.

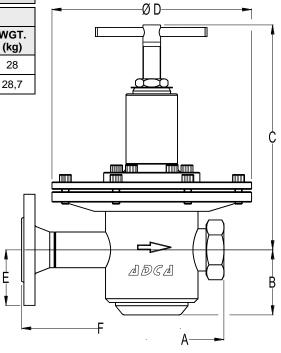






DIMENSIONS (mm)								
Screwed					PN16			
SIZE	Α	В	С	D	WGT. (kg)	E	F*	WGT. (kg)
11/2" – DN 40	195	90	305	270	23,2	75	320	28
2" – DN 50	205	90	305	270	23,6	82,5	320	28,7

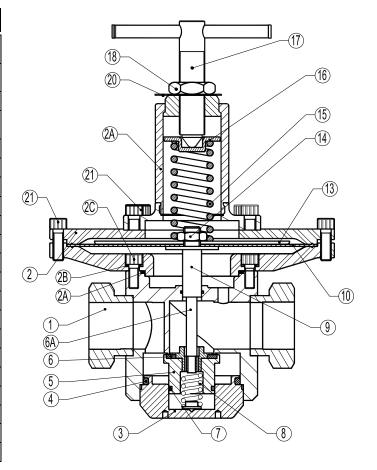
^{*} Different lenghts on request.



	MATERIALS								
POS.	DESIGNATION	MATERIAL							
1	Valve body	AISI 316 / 1.4401 ; CF8M / 1.4408							
2	Cover	AISI 316 / 1.4401							
2A	Spring cover	AISI 316 / 1.4401 ; CF8M / 1.4408							
2B	Bolts	Stainless steel A2-70							
3	Seat cover	AISI 316 / 1.4401							
4	* O-ring	NBR							
5	* Piston valve	AISI 316 / 1.4401							
6	* Valve head	NBR							
6A	* Pushrod	AISI 316 / 1.4401							
7	* O-ring	NBR							
8	* Valve spring	Spring steel							
9	Pusher disc	AISI 304 / 1.4301							
10	* Diaphragm	Rubber							
13	Spring plate	AISI 304 / 1.4301							
14	Nut	Stainless steel A2-70							
15	* Adjustment spring	Steel							
16	Top spring plate	Brass							
17	Adjustment screw	AISI 304 / 1.4301							
18	Locknut	Stainless steel A2-70							
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.







ORDERING CODES PRV300SS												
Valve model	R300		1	W	N	В	R				15	
PRV300SS – Diaphragm sensing	R300											
Outlet spring range	•											
Nº 1 – 0,05 to 0,3 bar			1									
Nº 2 - 0,2 to 1,7 bar			2									
Application												
Water				W								
Gases				G								
Oxygen (degreased)				0								
Seal material												
NBR					N							
EPDM					Е							
PTFE					Т	1						
FPM / Viton					٧							
Maximum inlet press	ure											
16 bar						В						
Diaphragm mate	erial											
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 d	irection)							3				
Gauge ports on both sides								2				
Relie	ving							•				
Non-relieving									(1)			
Relieving (for non-dangerous gases only)									R			
Pipe	connect	ion										
Threaded BSP ISO 7/1 Rp										Α		
Threaded NPT ANSI B1.20.1										С		
Socket weld SW ANSI B16.11										Н		
Butt weld BW ANSI B16.25										I		
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											
11/2" or DN 40											40	
2" or DN 50											50	
Spe	ecial val	ves	/ Extra	ıs								
Full description or additional codes have to be add	ded in ca	se c	of non-s	standa	rd cor	nbinat	ion.					Е

⁽¹⁾ Omitted if a standard valve is requested.