



DIAPHRAGM SENSING 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 with compressed air, water and other gases and 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,



Compact design.

Large high accuracy diaphragm.

Balanced valve plug.

Machined from bar stock 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.

1/4" outlet gauge connection on body. Top cap (adjustment screw with cover).

Compressed air, water and other gases and USE:

liquids compatible with the construction.

AVAILABLE

MODELS: PRV300SS – stainless steel, diaphragm sensing.

11/2" and 2"; DN 40 and DN 50. SIZES:

CONNECTIONS: Female threaded ISO 7 Rp.

Flanged EN 1092-1 PN 16.

Flanged ASME B16.5 Class 150.

INSTALLATION: Horizontal installation.

A "Y" strainer should be installed upstream of the

See IMI - Installation and maintenance

instructions.



FLOW RATE COEFFICIENTS (m³/h)								
SIZE	SIZE 11/2" – DN 40							
Kvs	12,7	13,7						

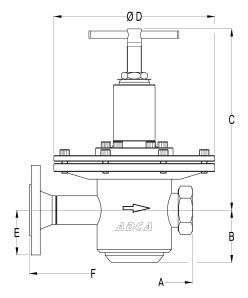
LIMITING CONDITIONS								
Valve model	PRV300							
Body design conditions	PN 16							
Maximum upstream pressure	16 bar							
Maximum downstream pressure	1,7 bar							
Minimum downstream pressure	0,05 bar							
Maximum design temperature *	80 °C							
Maximum recommended reducing ratio	40:1							

^{*} Others on request.

CE MARKING – GROUP 2 (PED – European Directive)				
PN 16	Category			
11/2" to 2" – DN 40 to 50	SEP			







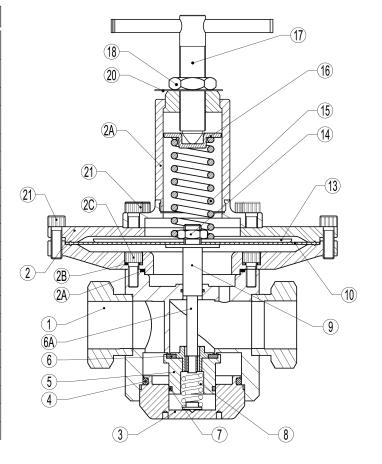
DIMENSIONS (mm)									
THREADED					PN 16				
SIZE	Α	В	С	D	WEIGHT (kg)	E	F*	WEIGHT (kg)	
11/2" – DN 40	205	80	297	270	23,2	75	320	28	
2" - DN 50	201	75	302	270	23,6	82,5	320	28,7	

^{*} Different lenghts on request.

	MATERIALS							
POS.	DESIGNATION	MATERIAL						
1	Valve body	AISI 316 / 1.4401; A351 CF8M / 1.4408						
2	Cover	AISI 316 / 1.4401						
2A	Spring cover	AISI 316 / 1.4401; A351 CF8M / 1.4408						
2B	Bolts	AISI 316 / 1.4401						
3	Seat cover	NBR						
4	* O-ring	AISI 316 / 1.4401						
5	* Piston valve	NBR, EPDM, PTFE, etc.						
6	* Valve head	AISI 316 / 1.4401						
6A	* Pushrod	NBR, EPDM, PTFE, etc.						
7	* O-ring	AISI 302 / 1.4300						
8	* Valve spring	AISI 316 / 1.4401						
9	Pusher disc	NBR, EPDM, Viton, etc.						
10	* Diaphragm	NBR, EPDM, PTFE, etc.						
13	Spring plate	AISI 304 / 1.4301						
14	Nut	Spring steel						
15	* Adjustment spring	Brass						
16	Top spring plate	AISI 304 / 1.4301						
17	Adjustment screw	Stainless steel A2-70						
18	Locknut	Aluminium						
20	Spring Id. plate	Stainless steel A2-70						

^{*} 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.







ORE	DERING CO	DES	PRV3	00								
Valve model	R300		1	w	N	В	R			Α	40	
PRV300SS – diaphragm sensing pressure reducing valve	R300											
Regulating range												
Nº 1 – 0,05 to 0,3 bar			1									
$N^{\circ} 2 - 0.2$ to 1.7 bar			2									
Application												
Water				W								
Gases				G								
Oxygen (degreased)				0								
Seal material a)												
NBR					N	1						
EPDM					Е	1						
PTFE					Т	1						
FPM / Viton					V	1						
Maximum inlet pressure												
16 bar						В	-					
Diaphragm												
Rubber/PTFE (Relieving or non-relieving)							R					
Gauge port 1/4	4"						1					
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	1			
Gauge ports on both sides								2				
Relievir	ng											
Non-relieving									(1)			
Relieving (for non-dangerous gases only)									R			
Pipe co	nnection											
Female threaded ISO 7 Rp										Α		
Female threaded NPT ASME B1.20.1										С		
Socket weld (SW) ASME B16.11										Н		
Butt weld (BW) ASME B16.25										ı		
Flanged EN 1092-1 PN 40										N		
Flanged EN 1092-1 PN 63										0	1	
Flanged ASME B16.5 Class 150										U		
Flanged ASME B16.5 Class 300										٧		
Flanged ASME B16.5 Class 600										w		
	Size										1	
11/2" or DN 40											40	
2" or DN 50											50	
Spec	ial valves	Extr	as									
Full description or additional codes have to be added in case o				ation.								Е

⁽¹⁾ Omitted if a standard valve is requested.

a) Valve limited to the materials' maximum operating temperature. Contact manufacturer for more details.