



PISTON SENSING PRESSURE REDUCING VALVE PRV41

DESCRIPTION

The ADCA PRV41 series direct acting, spring-loaded piston sensing, balanced plug pressure reducing valves are designed for use on compressed air, water and other gases or liquids compatible with the materials of the construction.

They are suitable for pressure reducing stations at the point of use on different industrial applications.



Compact design. Balanced plug.

Machined from bar stock materials.

OPTIONS: Different soft valves for water and gases.

Relieving - Internal relief valve to allow reduced

outlet pressure in a no-flow condition. 1/4" outlet gauge connection on body. Top cap (adjustment screw with cover).

USE: Compressed air, water and other gases and

liquids compatible with the construction.

AVAILABLE

MODELS: PRV41SS – stainless steel, piston sensing.

SIZES: 1/4" to 1/2"; DN 15.

CONNECTIONS: Female threaded ISO 7 Rp or NPT.

Flanged EN 1092-1 PN 40 to PN 320.

Flanged ASME B16.5 Class 150, 300 or 600.

INSTALLATION: Horizontal or vertical installation.

See IMI - Installation and maintenance

instructions.

A "Y" strainer should be installed upstream of the

valve.



FLOW RATE COEFFICIENTS (m³/h)								
SIZE	1/4"	3/8"	1/2" – DN 15					
Kvs	0,7	0,8	0,9					

LIMITING CONDITIONS								
Valve model	PRV41SS							
Body design conditions	PN 320							
Maximum upstream pressure	220 bar							
Maximum downstream pressure	200 bar							
Minimum downstream pressure	3 bar							
Maximum design temperature *	80 °C							
Maximum recommended reducing ratio	40:1							

^{*} Others on request.

CE MARKING – GROUP 2 (PED – European Directive)							
PN 320	Category						

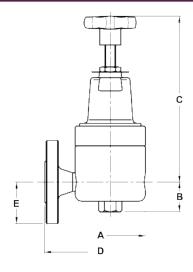
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1/4" to 1/2" - DN 15







					DII	MENSION	IS (mm)						
THREADED			PN 40			PN 63/100			PN 250/320				
SIZE	Α	В	С	WEIGHT (kg)	D *	E	WEIGHT (kg)	D *	E	WEIGHT (kg)	D *	E	WEIGHT (kg)
1/4"	80	35	200	2,7	_	_	_	_	_	_	_	_	_
3/8"	80	35	200	2,7	_	_	-	_	_	-	_	_	_
1/2" – DN 15	80	35	200	2,7	150	47,5	4,1	210	52,5	5	230	65	7,3

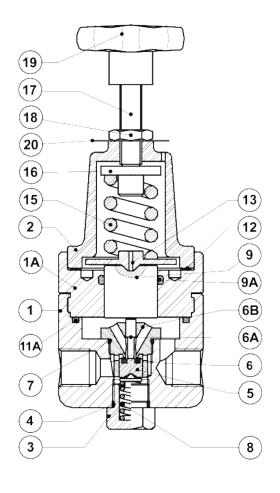
^{*} Different lenghts on request.

Remark: DN 15 PN 40 face to face dimmensions adopted as per DN 20.

MATERIALS								
POS.	DESIGNATION	MATERIAL						
1	Valve body	AISI 316 / 1.4401						
1A	Piston sleeve	AISI 316 / 1.4401						
	_	AISI 316 / 1.4401						
2	Top cover	A351 CF8M / 1.4408						
3	Seat cover	AISI 316 / 1.4401						
4	* O-ring	NBR						
5	* Piston valve	AISI 316 / 1.4401						
6	* Valve head	NBR ; EPDM ; PTFE; etc.						
6A	Pushrod	AISI 304 / 1.4301						
6B	* Valve seat	Hardened stainless steel						
7	* O-ring	NBR; EPDM; PTFE; etc.						
8	* Valve spring	AISI 302 / 1.4300						
9	Piston	AISI 316 / 1.4401						
9A	* O-ring	NBR; EPDM; Viton; etc.						
11A	* O-ring	NBR; EPDM; PTFE; etc.						
12	Gasket	Aluminium						
13	Spring plate	AISI 304 / 1.4301						
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.

Remarks: 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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Valve model	R41		5	W	N	Е	4	R		Α	08
PRV41SS – Piston sensing pressure reducing valve	R41										
Regulating range											
Nº5 – 3 to 30 bar			5								
№6 – 5 to 50 bar			6								
Nº7 – 20 to 200 bar			7								
Application											
Nater State				W							
Gases				G							
Oxygen (degreased)				0							
Seal material						-					
NBR					N	-					
EPDM					E -	-					
PTFE a)					T	-					
FPM / Viton					V						
Maximum inlet pressure						_					
30 bar						E					
220 bar						F					
Gauge port 1/4"							(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								(4)	-		
Non-relieving Relieving (only for non dangerous gases)								(1) R	-		
Pipe connection								IX			
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									-	ï	
Flanged EN 1092-1 PN 40										N	
Flanged EN 1092-1 PN 63										0	
Flanged EN 1092-1 PN 100										Р	
Flanged EN 1092-1 PN 160										Q	
Flanged EN 1092-1 PN 250										R	
Flanged EN 1092-1 PN 320										S	
Flanged ASME B16.5 Class 150										U	
Flanged ASME B16.5 Class 300										٧	
Flanged ASME B16.5 Class 600										W	
Size											
1/4"											08
3/8"											10
	· · · · · · · · · · · · · · · · · · ·										15
1/2" or DN 15											-

- (1) Omitted if a standard valve is requested.
 a) Valve seal only, other seals in Viton.

