



## PISTON SENSING PRESSURE REDUCING VALVE PRV41SS

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

## 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. Connections are female screwed or flanged.



Compact design. Balanced valve.

Machined from barstock materials.

OPTIONS: Different soft valves for water and gases.

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

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: PRV41/SS – Stainless steel.

SIZES: 1/4", 3/8" and 1/2".

DN 15.

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

Flanged EN 1092-1 PN40 – PN320. Special flanges upon request.

INSTALLATION: Horizontal or vertical 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).



	CAFA	CITIES	
Valve size	1/4"	3/8"	1/2" – DN 15
Kvs (m³/h)	0,7	0,8	0,9

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PN320	Category						
1/4" to 1/2"	SEP						
1/4 to 1/2	SEP						

LIMITING CONDITIONS							
Valve model	PRV41SS						
Body design conditions	PN320						
Max. upstream pressure	220 bar						
Max. downstream pressure	200 bar						
Min. downstream pressure	3 bar						
Max. design temperature *	80 °C						
Max. recommended reducing ratio	40:1						

<sup>\*</sup> Other on request.





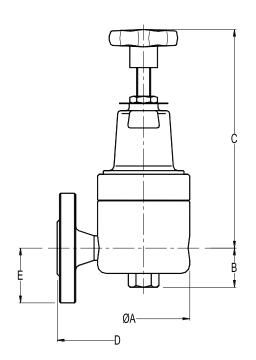
					DIN	MENSION	IS (mm)						
Screwed			PN16/40		PN63/100			PN250/320					
SIZE	Α	В	C	WGT. (kg)	D *	E	WGT. (kg)	D *	E	WGT. (kg)	D *	E	WGT. (kg)
1/4"	80	35	200	2,7	_	_	_	_	-	_	_	-	_
3/8"	80	35	200	2,7	-	_	_	-	-	_	ı	_	_
1/2" – DN 15	80	35	200	2,7	150	47,5	4,1	210	52,5	5	230	65	7,3

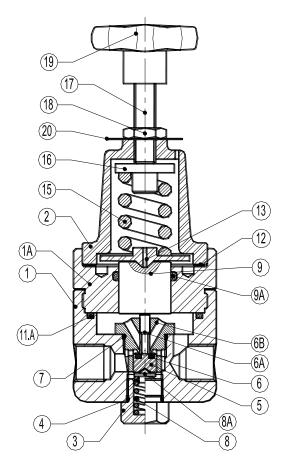
\* Different lenghts on request. Remarks: DN 15 PN16/40 face to face dimmensions adopted as per DN20.

	MATERIA	LS
POS.	DESIGNATION	MATERIAL
1	Valve body	AISI 316 / 1.4401; CF8M / 1.4408
1A	Piston sleeve	AISI 316 / 1.4401; CF8M / 1.4408
2	Top cover	AISI 316 / 1.4401; 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 st. steel
7	* O-ring	NBR; EPDM; PTFE; etc.
8	* Valve spring	AISI 302 / 1.4300
8A	* Strainer screen	AISI 304 / 1.4301
9	Piston	AISI 316 / 1.4401
9A	* O-ring	NBR; EPDM; PTFE; 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

<sup>\*</sup> 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 CODI	ES PRV	41									
Valve model	R41		5	W	N	С		•		15	
PRV41SS – Diaphragm sensing	R41										Ī
Outlet spring range											
Nº5 – 3 to 30 bar		:	5								
Nº6 − 5 to 50 bar			6								
Nº7 – 20 to 200 bar			7								
Application											
Water				W							
Gases				G							
Oxygen (degreased)				0							
Seal material											
NBR					N						
EPDM					Е						
PTFE					Т						
FPM / Viton					V						
Maximum inlet pressure											
80 bar						Е					
220 bar						F					
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)								R			
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									I		
Flanged EN 1092-1 PN40									N		
Flanged EN 1092-1 PN63									0		
Flanged EN 1092-1 PN100									Р		
Flanged EN 1092-1 PN160									Q		
Flanged EN 1092-1 PN250									R		
Flanged EN 1092-1 PN320									S		
Flanged ANSI B16.5 150 lb									U		
Flanged ANSI B16.5 300 lb									٧		
Flanged ANSI B16.5 600 lb									W		
Size											_
1/4"										08	-
3/8"										10	-
1/2" or DN 15  Special valves / E.	xtras									15	1
Full description or additional codes have to be added in case of non-stand		hinatio	n								+

<sup>(1)</sup> Omitted if a standard valve is requested.

