



## PISTON SENSING PRESSURE REDUCING VALVE PRV31SS 11/2" – 2"; DN 40 – DN 50

#### DESCRIPTION

The ADCA PRV31 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 laundry machines, dyeing, food industries, sterilizers, etc.

#### MAIN FEATURES

Compact design. Balanced valve. Machined from bar stock.

- OPTIONS: Different soft valves for water and gases. Relieving-Internal relief valve to allow reduce 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.

MODELS: PRV31SS – Stainless steel.

- SIZES: 11/2" and 2". DN 40 and DN 50.
- CONNECTIONS: Female threaded ISO 7 Rp or NPT. DN40: Flanged EN1092-1 Type 11 B PN40 or 63. DN50: Flanged EN1092-1 Type 01 A PN 40 \*. DN50: Flanged EN1092-1 Type11 B PN 63. \* Type 11 B PN40 welding neck available, with different face to face dimensions.
- INSTALLATION: Horizontal installation. An "Y" strainer should be provided upstream of the valve. See IMI – Installation and maintenance instructions.

CE MARKING - GROUP 2 (PED - European Directive)

Category

1 (CE marked)

### ORDER REQUIREMENTS: Type of fluid. Maximum operating temperature. Inlet pressure and required outlet pressure. Capacity (maximum and minimum).



Type 11 B

Flanges

PRV31SS
PN63
50 bar
50 bar
3 bar
80 °C
40:1

\* Others on request



**PN63** 

11/2" and 2"; DN 40 to 50

We reserve the right to change the design and material of this product without notice

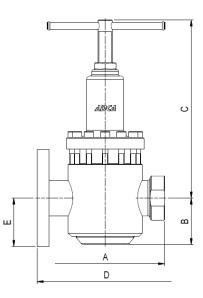




DIMENSIONS (mm)																	
THREADED					PN40			PN63/100				A	NSI 150	lb	ANSI 300 lb		
SIZE	Α	в	С	WGT. (kg)	D *	Е	WGT. (kg)	D *	E PN63	E PN100	WGT. (kg)	D *	E	WGT. (kg)	D *	Е	WGT. (kg)
11/2" – DN 40	205	86	305	14,8	201	75	18.1	260	85	85	22,1	235	63,5	17,5	248	78	20
2" – DN 50	201	80	305	15,1	230 **	82,5	20,3	300	90	97,5	24,6	254	76	20	267	82,5	21,7

\* Different lenghts and ANSI flanges on request.

\*\* Only available with flat flanges EN 1092-1 type 01 A. Welding neck type 11 B flanges as option with 300 mm minimum face to face dimensions.

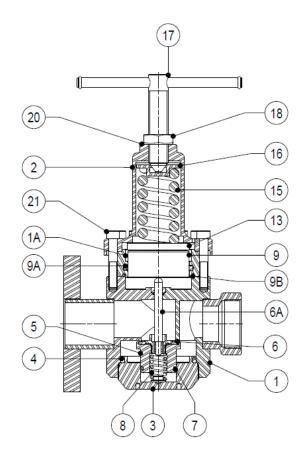


	MATERIA	LS
POS. Nº	DESIGNATION	MATERIAL
1	Valve body	AISI 316 / 1.4401
1A	Piston sleeve	AISI 316 / 1.4401
2	Top cover	CF8M / 1.4408
3	Seat cover	AISI 316 / 1.4401
4	* O-ring	NBR
5	* Piston valve	AISI 316 / 1.4401
6	* Valve head	NBR ; EPDM ; PTFE; etc.
6A	Pushrod	AISI 316 / 1.4401
7	* O-ring	NBR ; EPDM ; PTFE; etc.
8	* Valve spring	AISI 302 / 1.4300
9	Piston	AISI 316 / 1.4401
9A	* O-ring	NBR ; EPDM ; Viton; etc.
9B	* O-ring	NBR ; EPDM ; PTFE; etc.
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
20	Spring id. plate	Aluminium
21	Bolts	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.









0	RDERI	IG	COD	ES F	PRV31S	S						
Valve model	R31	Τ.	. 5	;	W	N	С			Α	40	
PRV31SS – Piston sensing	R31											
Outlet spring range	1											
Nº 5 - 3 to 30 bar			5	;								
№ 6 - 5 to 50 bar			6	;								
Application			_									
Water					W							
Gases					G							
Oxygen (degreased)					0							
Seal material												
NBR						N	1					
EPDM						E	1					
PTFE a)						т	1					
FPM / Viton						v	1					
Maximum inlet pressur	е						1					
30 bar							с	1				
50 bar							D	1				
Gauge port 1/4	,,							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												
Gauge ports on both sides								2				
Relievin	g											
Non-relieving (1)												
Relieving (only for non dangerous gases)												
Pipe c	onnect	ion										
Threaded ISO 7 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										v		
Flanged ANSI B16.5 600 lb										 w		
	Size	9										
11/2" or DN 40											40	
2" or DN 50											50	
S	oecial v	alv	ves / E	Extra	as							
Full description or additional codes have to be added in ca	se of no	n-s	standa	ard c	combina	tion.						E

(1) Omitted if a standard valve is requested.

a) Valve seal only, other seals in Viton.

# VALSTEAM ADCA