



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 valve 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.

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 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.

AVAILABLE

MODELS: PRV31SS – Stainless steel.

SIZES: 11/2" and 2".

DN 40 and DN 50.

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

DN40-Flanged EN1092-1 Type11 B PN 40-63. DN50-Flanged EN1092-1 Type01 A PN 40*. DN50-Flanged EN1092-1 Type11 B PN 63. *Type 11 B PN40 welding neck available, with

different face to face dimension.

INSTALLATION: Horizontal installation.

An "Y" strainer should be provided upstream of

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).





Type 11 B Flanges



Type 01 A Flanges

CAPACITIES									
Valve size	11/2" – DN 40	2" - DN 50							
Kvs (m ³ /h)	14,4	15,4							

LIMITING CONDITIONS								
Valve model	PRV31SS							
Body design conditions	PN63							
Max. upstream pressure	50 bar							
Max. downstream pressure	50 bar							
Min. downstream pressure	3 bar							
Max. design temperature *	80 °C							
Max. recommended reducing ratio	40:1							

^{*} Other on request.



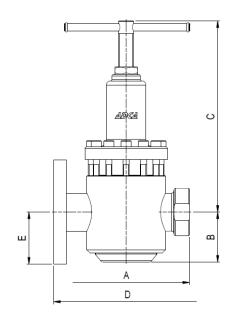


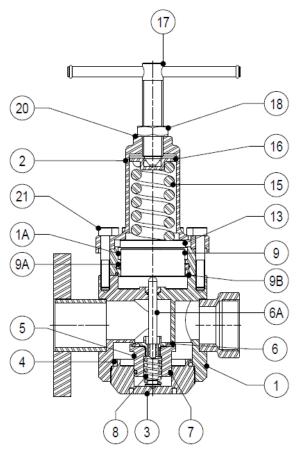
DIMENSIONS (mm)																	
Screwed			PN16/40		PN63/100			A	NSI 150	lb	ANSI 300 lb						
SIZE	Α	В	С	WGT. (kg)	D *	E	WGT. (kg)	D *	E PN63	E PN100	WGT. (kg)	D *	E	WGT. (kg)	D *	E	WGT. (kg)
11/2" – DN 40	205	86	305	14,8	201	75	18.1	260	85	85	22,1	235	63,5	17,5	248	78	20
2" – DN 50	201	80	305	15,1	230 **	82,5	20,3	300	90	97,5	24,6	254	76	20	267	82,5	21,7

	MATERIA	LS
POS.	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; PTFE; 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.







^{*} Different lenghts and ANSI flanges available on request.

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





ORDERING CODE	S PRV3	SS									
Valve model	R31		5	W	N	С			Α	40	
PRV31SS – Piston sensing	R31										
Outlet spring range	•										
Nº5 – 3 to 30 bar			5								
Nº6 – 5 to 50 bar			6								
Application											
Water				W							
Gases				G							
Oxygen (degreased)				0							
Seal material											
NBR					N						
EPDM					Е	1					
PTFE					Т						
FPM / Viton					٧						
Maximum inlet pressure					•						
30 bar						С					
50 bar						D					
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									ı		
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	
Special valves / E											
Full description or additional codes have to be added in case of non-stand	lard com	bina	tion.								Ε

⁽¹⁾ Omitted if a standard valve is requested.