



PISTON SENSING PRESSURE REDUCING VALVE PRV31SS

1/2" - 3/4"; DN 15 - DN 20

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 construction.

They are suitable for pressure reducing stations at the point of use on laundry machines, dyeing, food industries, sterilizers, etc.



Compact design.

Balanced valve.

Machined from bar stock materials or 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.

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: 1/2" and 3/4".

DN 15 and DN 20.

CONNECTIONS: Female threaded ISO 7 Rp or NPT;

Flanged EN 1092-1 PN40 or PN63. Special flanges upon request.

INSTALLATION: Horizontal installation. An "Y" strainer should be

installed upstream of the valve.

See IMI - Installation and maintenance instruc-

tions.

ORDER

REQUIREMENTS: Type of fluid.

Maximum operating temperature.

Inlet pressure and required outlet pressure.

Capacity (maximum and minimum).

-
ADCA (
Cooker 100 CAS Fookers on Cases
Les S

CE MARKING – GROUP 2 (PED – European Directive)					
PN40 / PN63	Category				
1/2" to 3/4": DN 15 to DN 20	SEP				

CAPACITIES									
Valve size	3/4" – DN 20								
Kvs (m3/h)	3	3,5							

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

^{*} Others on request





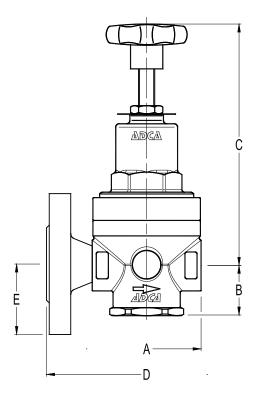


DIMENSIONS (mm) - THREADED									
SIZE	Α	В	С	WGT. (kg)					
1/2" – DN 15	80	38	175	2,6					
3/4" – DN 20	80	38	175	2,6					

DIMENSIONS (mm) - FLANGED									
	PN16/4	PN63 / PN100							
SIZE	D *	E	WGT. (kg)	D *	E	WGT. (kg)			
1/2" – DN 15	150	47,5	4	210	52,5	52,5			
3/4" – DN 20	150	52,5	4,7	230	70	70			

^{*} Different lenghts on request.

Remarks: DN 15 PN16/40 face to face dimensions adopted as per DN 20.



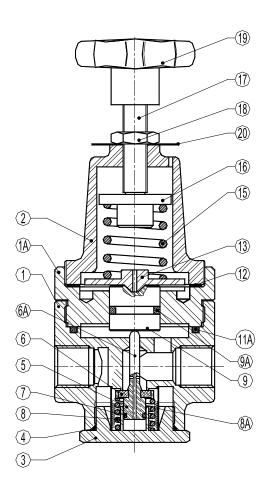
MATERIALS									
POS.	DESIGNATION	MATERIAL							
1	Valve body (a)	CF8M / 1.4408 (AISI 316 / 1.4401)							
1A	Piston sleeve	AISI 316 / 1.4401							
2	Top cover (a)	CF8M / 1.4408 (AISI 316 / 1.4401)							
3	Seat cover (a)	CF8M / 1.4408 (AISI 316 / 1.4401)							
4	* O-ring	NBR							
5	* Piston valve	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							
8A	* Strainer screen	AISI 304 / 1.4301							
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.

(a) Bar stock execution on request.









ORDERING CODES PRV31SS												
Valve model	R31		5	w	N	С				Α	15	
PRV31SS – Piston sensing	R31	П										
Outlet spring range												
Nº 5 - 3 to 30 bar			5	1								
Nº 6 - 5 to 50 bar			6	1								
		\dashv		1								
		\dashv		1								
Application				1								
Water				w								
Gases				G								
Oxygen (degreased)				0								
Seal material												
NBR					N	1						
EPDM					Е							
PTFE (a)					Т	1						
FPM / Viton					V							
Maximum inlet pressu	ire											
30 bar						С						
50 bar						D						
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												
Relievi	ng											
Non-relieving (1)												
Relieving (only for non dangerous gases)												
Pipe o	connection	n										
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							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								V				
Flanged ANSI B16.5 600 lb										W		
	Size											
1/2" or DN 15											15	
3/4" or DN 20										20		
Special valves / Extras												
Full description or additional codes have to be added in case of non-standard combination.									E			

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