



DIAPHRAGM SENSING PRESSURE REDUCING VALVE PRV30

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

DESCRIPTION

The ADCA PRV30 series direct acting, spring-loaded diaphragm sensing, balanced plug pressure reducing valves, are designed for use with compressed air, water and other gases and 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 plug.

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.

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: PRV30SS – stainless steel, diaphragm sensing.

SIZES: 1/2" and 3/4"; DN 15 and DN 20.

CONNECTIONS: Female threaded ISO 7 Rp or NPT.

Flanged EN 1092-1 PN 40 or PN 63. Flanged ASME B16.5 Class 150 or 300.

INSTALLATION: Horizontal installation.

See IMI - Installation and maintenance

instructions.

A "Y" strainer should be installed upstream of the

valve.



FLOW RATE COEFFICIENTS (m³/h)								
SIZE	1/2" – DN 15	3/4" – DN 20						
Kvs	2,1	2,4						

LIMITING CONDITIONS								
Valve model	PRV30SS							
Body design conditions	PN 63							
Maximum upstream pressure	50 bar							
Maximum downstream pressure	15 bar							
Minimum downstream pressure	0,2 bar							
Maximum design temperature *	80 °C							
Maximum recommended reducing ratio	40:1							

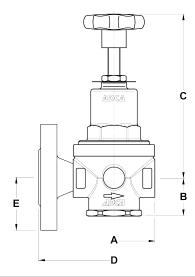
^{*} Others on request.

CE MARKING – GROUP 2 (PED – European Directive)						
PN 63	Category					
1/2" to 3/4" – DN 15 to 20	SEP					









				DIMEN	SIONS (mm))				
THREADED PN 40 PN 63										
SIZE	Α	В	С	WEIGHT (kg)	D *	E	WEIGHT (kg)	D *	E	WEIGHT (kg)
1/2" – DN 15	80	38	175	1,8	150	47,5	3,2	210	52,5	4
3/4" – DN 20	80	38	175	1,8	150	52,5	3,8	230	70	6

^{*} Different lenghts on request.

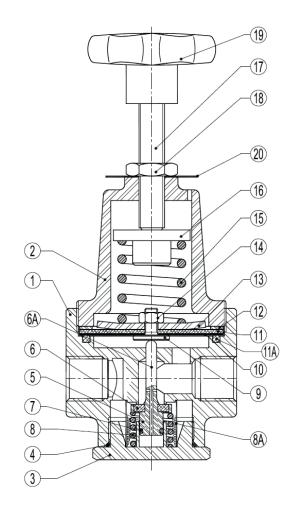
Remarks: DN 15 PN 40 face to face dimensions were adopted as per DN 20; 1" or DN 25 available on special execution and same performance; For flanged ASME versions dimensions, consult manufacturer.

MATERIALS								
POS.	DESIGNATION	MATERIAL						
1	Valve body a)	A351 CF8M / 1.4408 (AISI 316 / 1.4401)						
2	Cover a)	A351 CF8M / 1.4408 (AISI 316 / 1.4401)						
3	Seat cover a)	A351 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	Pusher disc	AISI 304 / 1.4301						
10	* Diaphragm	PTFE						
11	* Diaphragm	NBR **						
11A	* O-ring	NBR ; EPDM ; PTFE; etc.						
12	Gasket	Aluminium **						
13	Spring plate	AISI 304 / 1.4301						
14	Nut	Stainless steel A2-70						
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; ** Stainless steel on request.

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	PRV30)										
Valve model	R30		1	w	N	С	s	4	R		Α	25E
PRV30SS – diaphragm sensing pressure reducing valve	R30											
Regulating range												
N°1 − 0,2 to 1,5 bar			1									
N°2 – 0,3 to 3 bar			2									
N°3 − 0,8 to 8 bar			3									
Nº4 − 1,5 to 15 bar			4									
Application												
Water				w								
Gases				G								
Oxygen (degreased)				0	1							
Seal material a)												
NBR					N							
EPDM					E	1						
PTFE					Т	1						
FPM / Viton					V							
Maximum inlet pressure						1						
30 bar						С	1					
50 bar b)						D	1					
Diaphragm						_	1					
Stainless steel (non relieving)							s	1				
Rubber / PTFE (relieving or non-relieving)							R					
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)	-		
									(1) R	+		
Relieving (for non-dangerous gases only) Pipe connection									K		-	
·											Α.	
Female threaded ISO 7 Rp Female threaded NPT ASME B1.20.1											C	-
											+	-
Socket weld (SW) ASME B16.11											Н	-
Butt weld (BW) ASME B16.25 Elapsed EN 1002 1 BN 40											I N	-
Flanged EN 1092-1 PN 40											N	
Flanged EN 1092-1 PN 63											0	-
Flanged ASME B16.5 Class 150											U	-
Flanged ASME B16.5 Class 300											V	
Flanged ASME B16.5 Class 600											W	-
Size												
1/2" or DN 15												15
3/4" or DN 20												20
1" or DN 25 (same performance, with larger connection – special execution)												25E
Special valves / Ext												
Full description or additional codes have to be added in case of non-standard c	ombinat	ion.										

- (1) Omitted if a standard valve is requested.
- a) Valve limited to the materials' maximum operating temperature. Consult manufacturer for more details.
- b) The 50 bar inlet is available only with spring no 4.

