



DIAPHRAGM SENSING PRESSURE REDUCING VALVE P7

DESCRIPTION

The ADCA P7 series direct acting, spring-loaded diaphragm sensing pressure reducing valves, are designed for use with steam, compressed air and other gases compatible with the materials of construction. They are suitable for pressure reducing stations where very small loads are involved. They are also specifically recommended to operate as pilot valves in combination with other pressure regulators.

MAIN FEATURES

Compact design. Stainless steel diaphragm.

- OPTIONS: Outlet 1/4" gauge connection on body. Regulating screw with top cap. Internal sensing orifice. Compressed air top for remote control. Bar stock stainless steel construction.
- USE: Steam, compressed air and other gases compatible with the construction.
- MODELS: P7SS Stainless steel construction.
- SIZES: 1/4" and 3/8".
- CONNECTIONS: Female screwed ISO7/1Rp (BS 21) or NPT.
- INSTALLATION: Horizontal installation. A strainer should be provided upstream the valve. See IMI – Installation and maintenance instructions.

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

CE MARKING – GROUP 2 (PED – European Directive)						
PN16 - PN40	Category					
1/4" to 3/8"	SEP					



CAPACITIES							
Valve size	Valve size 1/4"						
Kvs (m³/h)	1	1,1					

LIMITING CONDITIONS							
Valve model P7							
Body design conditions	PN40						
Max. upstream pressure (steam)	25 bar						
Max. upstream pressure (gases)	31 bar						
Max. downstream pressure	17 bar						
Min. downstream pressure	0,35 bar *						
Max. design temperature	300 °C						

* 0,07 bar with low pressure top (limited at 7 bar inlet). The low pressure diaphragm should be fitted for outlet pressures from 0,07 to 0,5 bar.

Pressure and temperature may change if soft seating is used.

The balance pipe connection is recommended to enter the pipe downstream at, at least, 1 meter from valve, for higher accuracy. The valve can also be supplied with an internal sensing orifice instead of external.

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

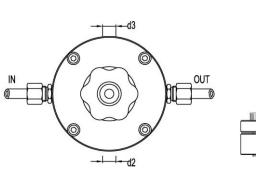


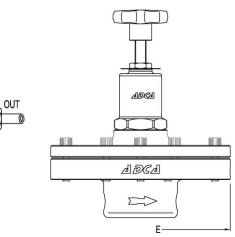


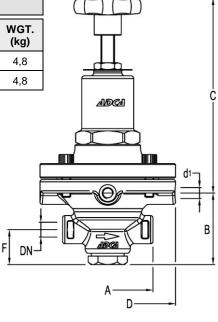
DIMENSIONS (mm)										
SIZE	Α	в	C D E F		F	d1 ** d2		d3 ***	WGT. (kg)	
1/4"	80	63,5	185	120	195	31	1/8"	1/4"	1/4"	4,8
3/8"	80	63,5	185	120	195	31	1/8"	1/4"	1/4"	4,8

* Low pressure diaphragm; ** Sensing line connection.

*** Optional – pressure gauge connection (can also be used as sensing line connection).







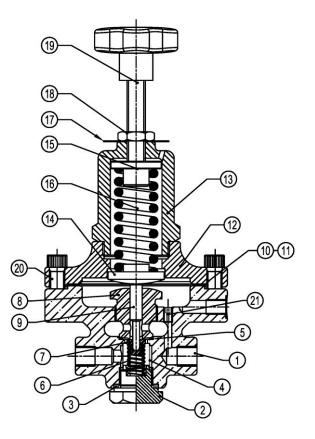
Version with low pressure diaphragm is made from barstock

MATERIALS								
POS. №	DESIGNATION	MATERIAL						
1	Valve body	AISI 316 / 1.4401 ; CF8M / 1.4408						
2	Plug	AISI 316 / 1.4401						
3	*Gasket	Stainless steel / Graphite						
4	*Strainer screen	AISI 304 / 1.4301						
5	Gasket	Copper						
6	*Spring	AISI 302 / 1.4300						
7	*Valve head	AISI 420-EPDM-PTFE, etc.						
8	*Pilot valve body	AISI 316 / 1.4401						
9	*Pushrod	AISI 316 / 1.4401						
10	*Diaphragm	AISI 301 / 1.4310						
11	*Gasket	Stainless steel / Graphite						
12	Top cover	CF8 / 1.4308						
13	Cover spring	CF8 / 1.4308						
14	Lower spring carrier	Brass						
15	Top spring carrier	Brass						
16	*Adjustment spring	Spring steel						
17	Spring id. plate	Aluminium						
18	Locknut	Stainless steel A2-70						
19	Handwheel	Plastic						
20	Bolts	Stainless steel A2-70						
21	Restrictor	Stainless steel A2-70						

* Available spare parts.

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Remarks: All valves have a serial number. In case of non-standard valves this number must be supplied if spare parts are ordered.





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	ES	P7							
Valve model P7SS .		1	S		S		.A	08	
P7SS Stainless steel pilot regulator P7SS									
Outlet spring range (see table)									
Green		1							
Blue		2							
Red (fitted with two diaphragms)		3							
Black (fitted with two diaphragms)		4							
Application									
Steam			S						
Gases			G						
Seal material									
Metal to metal lapped				(1)					
EPDM				Е					
PTFE				Т					
FPM / Viton				v					
Stainless steel diaphragm									
Standard diaphragm a)					S				
Low pressure diaphragm					L				
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)									
Gauge ports on both sides						2			
Pipe connection									
Threaded BSP ISO 7/1 Rp									
Threaded NPT ANSI B1.20.1							С		
Size									
1/4"								08	
3/8"								10	
Special valves / Ext									L
Full description or additional codes have to be added in case	of r	non-s	tanda	rd con	nbinati	ion.			

*Gauge port can also be used as external sensing line.

(1) Omitted if a standard valve is requested.

a) Two diaphragms will be fitted with black spring.

PRESSURE RANGES (bar)								
SPRING COLOUR	GREEN w/ 1 diaphragm	BLUE w/ 1 diaphragm	RED with 2 diaphragms	BLACK with 2 diaphragms				
Red. Pressure	0,07 to 0,5 *	1,5 to 5,5 **	3,5 to 8,5 **	7 to 17 **				
Red. Pressure	0,35 to 2 **	/	/	/				

*With low pressure top; **Standard diaphragm.

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