

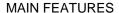


DIAPHRAGM SENSING PRESSURE REDUCING VALVE P20DS

DESCRIPTION

The ADCA P20DS series direct acting, spring-loaded diaphragm sensing pressure reducing valves, are designed for use on steam, compressed air, and other gases or liquids compatible with the materials of construction.

They are suitable for pressure reducing stations where small loads are involved. They are also specifically recommended to operate as pilot valves in combination with other pressure regulators.



Compact design.

Machined from barstock materials or investment casting. Ultrasonically cleaned and degreased.

OPTIONS: Different soft valves for water and gases.

Outlet 1/4" gauge connection on body.

Regulating screw with top cap. Connection for external sensing line.

USE: Steam. compressed air and other gases and

liquids compatible with the construction.

AVAILABLE

MODELS: P20DS – Stainless steel diaphragm sensing.

SIZES: 1/4" to 1/2".

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

INSTALLATION: Horizontal or vertical installation.

A strainer should be installed upstream 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).

CE MARKING – GROUP 2 (PED – European Directive)			
PN25	Category		
DN 08 to 15	SEP		



CAPACITIES					
Valve size	1/4"	3/8"	1/2"		
Kvs (m³/h)	1,2	1,8	1,8		

LIMITING CONDITIONS					
P20DS					
PN25					
14 bar					
8 bar					
0,2 bar					
200 °C					
10:1					

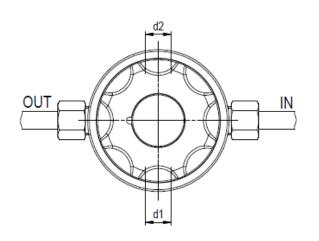
^{*} Others on request.

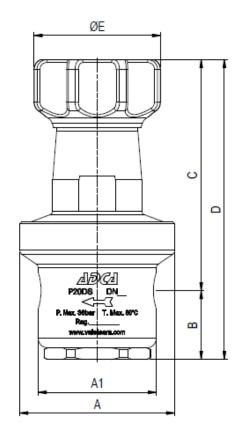




DIMENSIONS (mm)									
SIZE	Α	A1	В	С	D	E	d1 *	d2 *	WGT. (kg)
1/4"	80	61	35,5	120,5	156	69	1/4"	1/4"	1,8
3/8"	80	61	35,5	120,5	156	69	1/4"	1/4"	1,8
1/2"	80	80	35,5	120,5	156	69	1/4"	1/4"	2,5

^{*} Optional: Captured vent connection and pressure gauge.

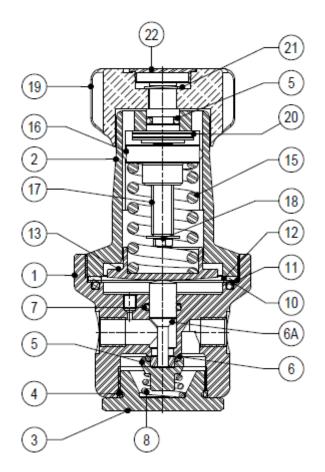




MATERIALS					
POS. Nº	DESIGNATION	MATERIAL			
1	Valve body	AISI 316 / 1.4401 ; CF8M / 1.4408			
2	Top cover	AISI 316 / 1.4401 ; CF8M / 1.4408			
3	Seat cover	AISI 316 / 1.4401 ; CF8M / 1.4408			
4	* O-ring	Viton			
5	* Piston valve	AISI 316 / 1.4401			
6	* Valve head	Viton			
6A	Pushrod	AISI 316 / 1.4401			
7	* O-ring	Viton			
8	Valve spring	AISI 302 / 1.4300			
10	* Gasket	Compressed aramid fiber			
11	* Diaphragm	AISI 301 / 1.4410			
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	Retaining washer	Stainless steel A2			
19	Handwheel	Aluminium painted			
20	Bearing	Corrosion resistant steel			
21	Ext. bowed shaft ring	Stainless steel			
22	Cover nut	Plastic			

^{*} 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.







ORDERING CODES P20DS								
Valve model P20DS .	1	S	Т	S		.A	80	
P20DS – Diaphragm sensing P20DS								
Outlet spring range								
Nº1 – 0,2 to 1,5 bar	1							
Nº2 – 0,3 to 3 bar	2							
Nº3 – 0,8 to 8 bar	3							
Application								
Steam		S						
Gases		G						
Oxygen (degreased)		0						
Seal material								
NBR			N					
EPDM			Е					
PTFE			Т					
FPM / Viton			٧					
Diaphragm material								
Stainless steel				S				
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								
Pipe connection								
Threaded BSP ISO 7/1 Rp						Α		
Threaded NPT ANSI B1.20.1						С		
Size								
1/4"							80	
3/8"							10	
1/2"							15	
Special valves / Extras								
Full description or additional codes have to be added in case of non-standard combination	ation.							Е

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

⁽¹⁾ Omitted if a standard valve is requested.