



DIAPHRAGM SENSING PRESSURE REDUCING VALVE P20D

DESCRIPTION

The ADCA P20D series direct acting, spring-loaded diaphragm 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 where small loads are involved. They are also specifically recommended to operate as pilot valves in combination with other pressure regulators.

MAIN FEATURES

Compact design. Balanced valve. 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:	Compressed air, water and other gases and liquids compatible with the construction.
AVAILABLE MODELS:	P20D – 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).

1000 P200 0,2-1 550" Pmsx 300-100, 400 R 39180-100, 400 P20, 14100-00 Nove ted stamp of	

	CAPACITI	ES	
Valve size 1/4" 3/8" 1/2"		1/2"	
Kvs (m ³ /h)	1,2	1,8	1,8

LIMITING CONDITION	s
Valve model	P20D
Body design conditions	PN63
Max. upstream pressure	50 bar
Max. downstream pressure	15 bar
Min. downstream pressure	0,2 bar
Max. design temperature *	80 °C
Max. recommended reducing ratio	40:1

* Others on request.

CE MARKING – GROUP 2 (PED – European Directive)						
PN16 / PN63	Category					
DN 08 to 15	SEP					

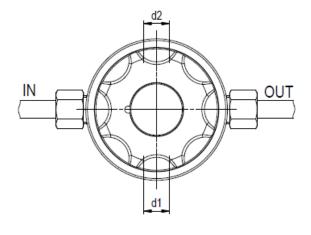
VALSTEAM ДДСД

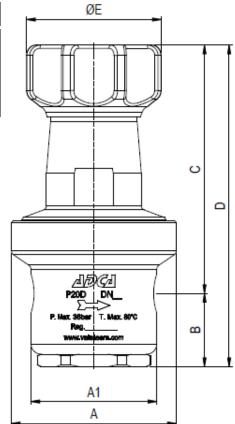




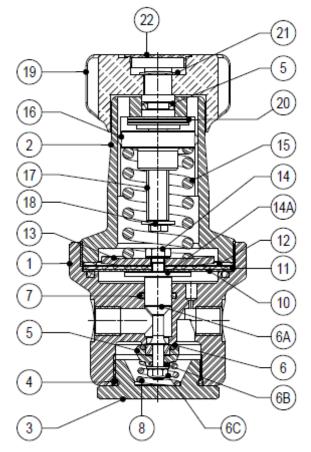
DIMENSIONS (mm)									
SIZE	E A A1		В	с	D	D E		d1 * d2 *	
1/4"	80	61	35,5	120,5	156	69	1/4"	1/4"	1,8
3/8"	80	61	35,5	120,5	156	69	1/4"	1/4" 1/4"	
1/2"	80	80	35,5	120,5	156	69	1/4"	1/4"	2,5

* Optional: Captured vent connection (d1); Pressure gauge (d2).





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	NBR					
5	* Piston valve	AISI 316 / 1.4401					
6	* Valve head	NBR-EPDM-PTFE, etc.					
6A	Pushrod	AISI 316 / 1.4401					
6B	* O-ring	NBR					
6C	Nut	Stainless steel A2					
7	* O-ring	NBR-EPDM-PTFE, etc.					
8	Valve spring	AISI 302 / 1.4300					
10	* Diaphragm	PTFE					
11	* Diaphragm	NBR					
12	Gasket	Aluminium					
13	Spring plate	AISI 304 / 1.4301					
14	Bolt	Stainless steel A2					
14A	Pusher disc	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 CO	DES P20	D								
Valve model	P20		1	w	Ν	С	R		.Α	08
P20D – Diaphragm sensing	P20									
Outlet spring range										
№1 – 0,2 to 1,5 bar			1							
№2 – 0,3 to 3 bar			2							
№3 – 0,8 to 8 bar			3							
№4 – 1,5 to 15 bar			4							
Application										
Water				w						
Gases				G						
Oxygen (degreased)				0						
Seal material										
NBR					Ν					
EPDM					Е					
PTFE					т					
FPM / Viton					۷					
Maximum inlet pressure										
30 bar						С				
50 bar a)						D				
Diaphragm material						•				
Rubber/PTFE							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		
Pipe connection										
Threaded BSP ISO 7/1 Rp									Α	
Threaded NPT ANSI B1.20.1									С	
Size										
1/4"										08
3/8"										10
1/2"										15
Special valves /	Extras									
Full description or additional codes have to be added in case of non-stan	dard com	bina	tion.							

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

(1) Omitted if a standard valve is requested.

a) 50 bar inlet available only with spring nº4.

