



PISTON SENSING PRESSURE REDUCING VALVE P20P (Low flow)

DESCRIPTION

The ADCA P20P series direct acting, spring-loaded piston sensing, pressure reducing valves, are designed for use on compressed air and other gases or liquids compatible with the materials of construction.

They are suitable for low flow pressure reducing in instrumentation systems among others.

Connections are female screwed.

MAIN FEATURES

Compact design.

Machined from barstock materials.

No rising handwheel.

Ultrasonically cleaned and degreased.

OPTIONS: Different soft valves for liquids and gases.

Relieving – internal relief valve to allow reduced outlet pressure in a no-flow

condition.

Relieving - captured vent below panel.

Panel mounting ring. Bottom mounting.

Outlet 1/4" gauge connection on body.

USE: Compressed air, water and other gases and

liquids compatible with the construction.

AVAILABLE

MODELS: P20P – Stainless steel piston sensing.

SIZES: 1/4".

CONNECTIONS: Female screwed ISO7/1Rp (BS21) or NPT.

Special connections on request.

INSTALLATION: In any position.

An upstream strainer should be provided in

case of dirty fluids usage.

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)						
PN320	Category					
1/4"	SEP					



CAPACITIES							
Valve size	1/4"	1/4"	1/4"				
Kvs (m³/h)	0,043	0,22	0,62				

LIMITING CONDITIONS							
Valve model	P20P						
Body design conditions	PN320						
Max. upstream pressure	220 bar						
Max. downstream pressure	200 bar						
Min. downstream pressure	0,2 bar						
Max. design temperature *	80 °C						
Max. recommended reducing ratio	40:1						

* Others on request.





WGT.

(kg)

2,5

d1 *

1/4"

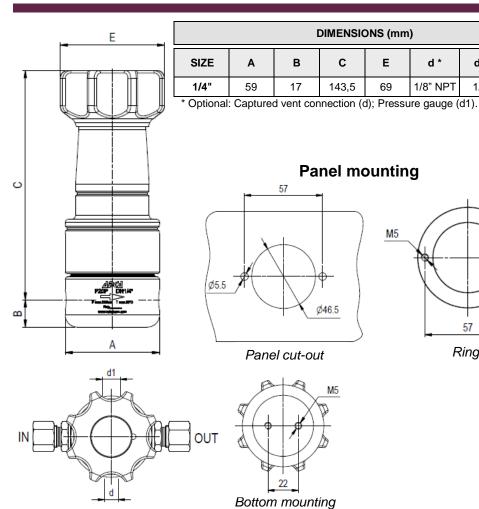
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1/8" NPT

Ε

69

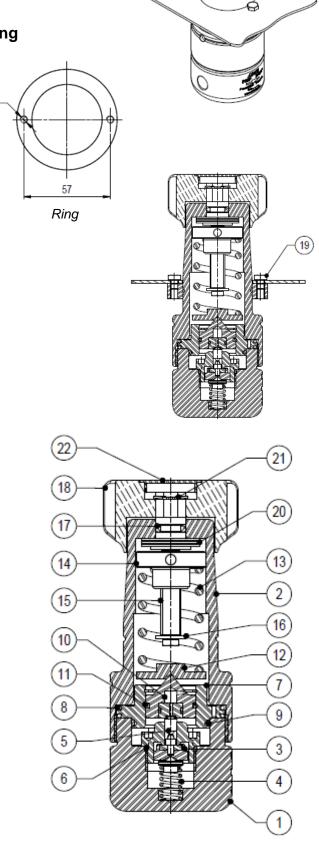
М5



MATERIALS						
POS. Nº	DESIGNATION	MATERIAL				
1	Valve body	AISI 316L / 1.4404				
2	Top cover	AISI 316L / 1.4404				
3	* Valve head	NBR-EPDM-PTFE, etc.				
4	* Valve spring	AISI 302 / 1.4300				
5	Pushrod	AISI 316L / 1.4404				
6	* O-ring	NBR-EPDM-PTFE, etc.				
7	Piston sleeve	AISI 316L / 1.4404				
8	* O-ring	NBR-EPDM-PTFE, etc.				
9	* O-ring	NBR-EPDM-PTFE, etc.				
10	Piston	AISI 316L / 1.4404				
11	* O-ring	NBR-EPDM-PTFE, etc.				
12	Spring plate	AISI 316L / 1.4404				
13	* Adjustment spring	Spring steel				
14	Top spring plate	AISI 316L / 1.4404				
15	Adjustment screw	AISI 316L / 1.4404				
16	Retaining washer	Stainless steel A2				
17	* O-ring	NBR-EPDM-PTFE, etc.				
18	Handwheel	Painted aluminium				
19	** Panel mounting ring	AISI 316L / 1.4404				
20	Bearing	Corrosion resistant steel				
21	Ext. bowed shaft ring	Stainless steel				
22	Cover nut	Plastic				

^{*} Available spare parts; ** Optional

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	DDES P2	20P										
Valve model	P20P		1	W	N	Е				.A	108	
P20P – Piston sensing	P20P											
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									
Nº4 – 1,5 to 15 bar			4									
Nº5 – 3 to 30 bar			5									
Nº6 – 5 to 50 bar			6									
Nº7 – 20 to 200 bar			7									
Application												
Water				W								
Gases				G								
Oxygen (degreased)				0								
Seal material												
NBR					N							
EPDM					Е							
PTFE					Т							
FPM / Viton					٧							
Maximum inlet pressure					I							
80 bar						Е						
220 bar						F						
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							ı					
Non-relieving								(1)				
Relieving (only for non-dangerous gases)								R				
Relieving with captured vent								L				
Panel mounting												
Without panel mounting ring									(1)			
With panel mounting ring									Р			
Pipe connection									ı			
Threaded BSP ISO 7/1 Rp										Α		
Threaded NPT ANSI B1.20.1										С		
Size												
1/4" – Kvs 0,043											108	
1/4" – Kvs 0,22											208	
1/4" – Kvs 0,62											308	
Special valves	/ Extras											
Full description or additional codes have to be added in case of non-stand			tion.									Е

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

⁽¹⁾ Omitted if a standard valve is requested.