



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.

MAIN FEATURES

Compact design.

Machined from barstock materials.

No rising handwheel.

Ultrasonically cleaned and degreased.

OPTIONS: Different soft valves for water and gases.

Relieving - Internal relief valve to allow reduce

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 threaded ISO 7 Rp or NPT.

Special connections on request.

INSTALLATION: In any position.

A strainer should be installed upstream of the

valve 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).



CAPACITIES							
Valve size	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.

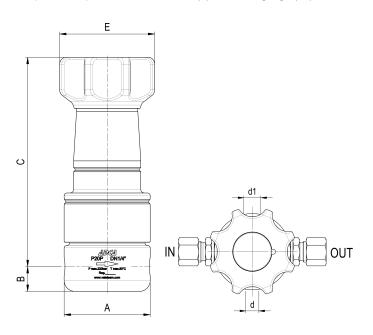
CE MARKING – GROUP 2 (PED – European Directive)					
PN320	Category				
1/4"	SEP				





DIMENSIONS (mm)									
SIZE	Α	В	ВС		d *	d1 *	WEIGHT (kg)		
1/4"	59	17	143,5	69	1/8" NPT	1/4"	2,5		

^{*} Optional: Captured vent connection (d); Pressure gauge (d1).

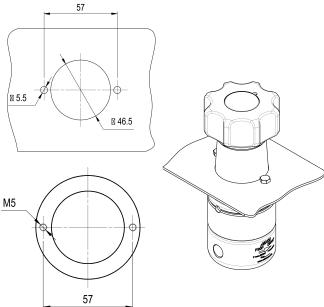


MATERIALS							
POS.	DESIGNATION	MATERIAL					
1	Valve body	AISI 316L / 1.4404					
2	Top cover	AISI 316L / 1.4404					
3	* Valve head	NBR; EPDM; PTFE; etc.					
4	* Valve spring	AISI 302 / 1.4300					
5	Pushrod	AISI 316L / 1.4404					
6	* O-ring	NBR; EPDM; PTFE; etc.					
7	Piston sleeve	AISI 316L / 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; Viton; 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					

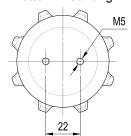
^{*} Available spare parts; ** Optional.

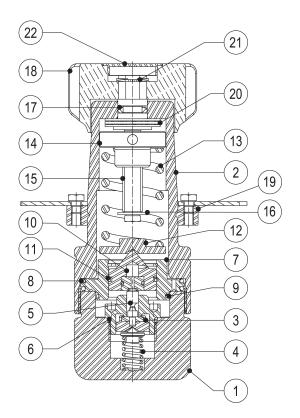
Remarks: All valves have a serial number. In case of non-standard valves this number must be supplied if spare parts are ordered.

Panel mounting



Bottom mounting











	ORD	ERING	CODES	P20P							
Valve model	P20P .	1	W	N	Е				. А	108	
P20P – Piston sensing	P20P										
Outlet spring range]									
Nº1 – 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									
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				E]						
PTFE a)				Т]						
FPM / Viton				V							
Maximum inlet pres	sure										
80 bar					E						
220 bar					F						
Gauge port 1/4	4" b)										
Without gauge ports						(1)	1				
Gauge port on the left side (relative to the flow direct	tion)					4]				
Gauge port on the right side (relative to the flow dire	ction)					3					
Gauge ports on both sides					2						
Relie	ving										
Non-relieving							(1)				
Relieving (only for non dangerous gases)							R				
Relieving with captured vent							L				
Pane	el mounting	l									
Without panel mounting ring								(1)			
With panel mounting ring								Р			
1	Pipe conne	ction									
Threaded ISO 7 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	
	Specia	l valves	/ Extras	\$							
Full description or additional codes have to be added in case of non-standard combination.								Е			

- (1) Omitted if a standard valve is requested.
- a) Valve seal only, other seals in Viton.
- b) Gauge port can also be used as external sensing line.