



DIAPHRAGM SENSING PRESSURE REDUCING VALVES P20D

DESCRIPTION

The ADCA P20D is a series of direct acting, spring-loaded, diaphragm sensing and balanced plug pressure reducing valves.

These regulators are designed for use with compressed air, water and other gases and liquids compatible with the construction materials and valve design.

They are suitable for pressure reducing applications at the point of use in laundry and dyeing machines, food industries, sterilizers, etc.



Compact design.

Non-rising adjustment knob.

Balanced valve plug.

Completely machined from solid bar stock material.

Ultrasonically cleaned.

OPTIONS: Leakage line connection.

Gauge connection on body.

Different soft valves for liquids and gases. Top cap (adjustment screw with cover). Degreased for oxygen application.

Panel mounting. Self relieving.

USE: Compressed air, water and other gases and

liquids compatible with the construction.

AVAILABLE

MODELS: P20D – stainless steel, diaphragm sensing.

SIZES: 1/4" to 1/2"; DN 15.

CONNECTIONS: Female threaded ISO 7 Rp, ISO 228 or NPT.

Flanged EN 1092-1 PN 40.

Flanged ASME B16.5 Class 150 or 300.

INSTALLATION: Horizontal or vertical installation.

See IMI – Installation and maintenance

instructions.







CE MARKING - GROUP 2 (PED - European Directive)

PN 40	Category
1/4" to 1/2" – DN 15	SEP

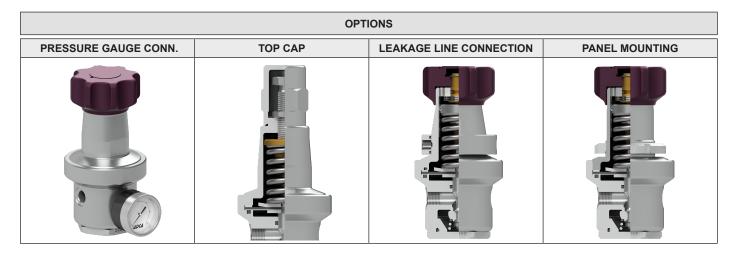
	FLOW RATE CO	EFFICIENTS (m³/	h)					
SIZE	SIZE 1/4" 3/8" 1/2" – D							
Kvs	1,2	1,8	1,8					

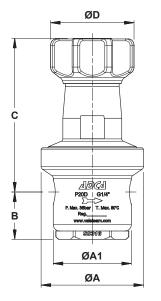
LIMITING CONDITIONS									
P20D									
Cl. 150	CI. 300	PN 40	PN 63 *						
16 bar	40 bar	40 bar	50 bar						
15 bar									
0,2 bar									
80 °C									
40:1									
	CI. 150	P2 CI. 150 CI. 300 16 bar 40 bar 15 0,2 80	P20D CI. 150						

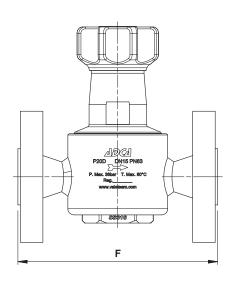
^{*} Rating PN 63 for threaded versions.

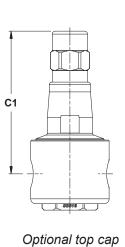


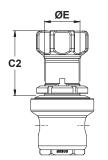


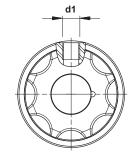












d2

Optional panel mounting version

Optional pressure gauge connection

Optional leakage line connection

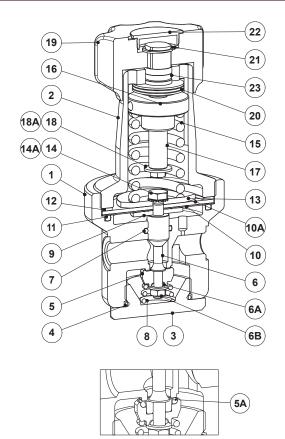
							DIME	NSIONS	6 (mm)								
					TI	HREAD	ED					PN	40	CLAS	S 150	CLAS	S 300
SIZE	ØA	ØA1	В	С	C1	C2	ØD	ØE	d1	d2	WGT. (kg)	F *	WGT. (kg)	F*	WGT. (kg)	F*	WGT. (kg)
1/4"	80	61	37	120	146	83	69	45	1/4"	1/8"	2,3	_	-	-	-	_	_
3/8"	80	61	37	120	146	83	69	45	1/4"	1/8"	2,3	_	-	-	-	_	_
1/2" – DN 15	80	80	37	120	146	83	69	45	1/4"	1/8"	2,9	150	4,4	160	3,9	170	4,5

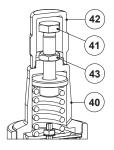
^{*} Different face to face dimensions on request.

Remarks: As standard, in versions manufactured with EN 1092-1 flanges or ISO threads, connections d1 and d2 are female threaded ISO 228. In versions with ASME B16.5 flanges or NPT threads, these connections are female threaded NPT.

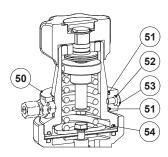




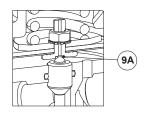




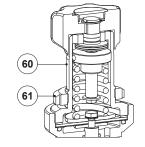
Optional top cap



Optional leakage line connection



Optional relieving version



Optional panel mounting version

	MATERIA	LS
POS. Nº	DESIGNATION	MATERIAL
1	Valve body	AISI 316 / 1.4401
2	Cover	AISI 316 / 1.4401
3	Bottom cover	A351 CF8M / 1.4408
4	* O-ring	** NBR
5	* Valve head	AISI 316 / 1.4401
5A	* O-ring	** NBR; EPDM; PTFE; FPM
6	* Piston	AISI 316 / 1.4401
6A	* O-ring	** NBR
6B	Nut	Stainless steel A2
7	* Piston o-ring	** NBR; EPDM; FPM
8	Valve spring	AISI 302 / 1.4300
9	Pusher disc	AISI 316 / 1.4401
9A	* O-ring	** NBR
10	* Lower diaphragm	** PTFE
10A	* Upper diaphragm	** NBR
11	* O-ring	** NBR
12	Gasket	Aluminium
13	Spring plate	AISI 304 / 1.4301
14	Nut	Stainless steel A2
14A	* Serrated washer	AISI 304 / 1.4301





	MATERIAL	LS
POS. Nº	DESIGNATION	MATERIAL
15	* Adjustment spring	AISI 302 / 1.4300
16	Spring guide	AISI 316 / 1.4401
17	Adjustment screw	Brass
18	Washer	Stainless steel A2
18A	Bolt	Stainless steel A2-70
19	Adjustment knob	Painted aluminium
20	Bearing	Corrosion resistant steel
21	Shaft ring	Stainless steel
22	Cover nut	Plastic
23	* O-ring	NBR
40	Cover	AISI 316L / 1.4404
41	Adjustment screw	Stainless steel A2-70
42	Тор сар	AISI 316L / 1.4404
43	Locknut	Stainless steel A2
50	Leakage line ring	AISI 316L / 1.4404
51	O-ring	** NBR
52	O-ring	** FPM
53	Bolt	AISI 304 / 1.4301
54	O-ring	** NBR
60	Cover for panel mounting	AISI 316L / 1.4404
61	Panel mounting ring	A351 CF8 / 1.4308

* Available spare parts. ** Others on request.

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





ORDERING	CODES P20	D										
Valve model	P20		1	w	N	С	R	4	R		В	08
P20D – diaphragm sensing pressure reducing valve	P20											
Regulating range	, ,											
Nº 1 – 0,2 to 1,5 bar			1									
N° 2 – 0,3 to 3 bar			2									
N° 3 – 0,8 to 8 bar			3									
N° 4 – 1,5 to 15 bar			4									
Application												
Water				w								
Gases				G								
Oxygen (degreased)				0								
Seal material a)												
NBR					N							
EPDM					Е							
PTFE					Т							
FPM / Viton					٧							
Maximum inlet pressure												
50 bar						D						
Diaphragm												
NBR / PTFE							R	1				
Gauge port options								-				
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	1			
Top cap, relieving, leakage line connection	n and panel n	nount	tina									
Non-relieving	•		3						(1)	1		
Relieving (only for non-dangerous gases)									R			
Relieving with leakage line connection									L			
Non-relieving with top cap (adjustment screw with cover)									Т	1		
Relieving with top cap (adjustment screw with cover, only for non-dange	erous gases)								v	1		
Panel mounting version, non-relieving									P	1		
Panel mounting version, non-relieving (only for non-dangerous gases)									Q	1		
Pipe connecti	on								_ ~		1	
Female threaded ISO 7 Rp (non-standard)											Α	
Female threaded ISO 228											В	
Female threaded NPT ASME B1.20.1											С	
Flanged EN 1092-1 PN 40											N	
Flanged ASME B16.5 Class 150											U	
Flanged ASME B16.5 Class 300											V	
Size											_ •	
1/4"												08
3/8"												
												10
1/2" or DN 15	oo / Extras											15
Special valv	es / Extras											

- (1) Omitted if a standard valve is requested.
- a) Valve head only. Remaining valve seals on request.

