



PNEUMATIC CONTROL VALVES PNEUMATIC ANGLE TYPE INTERCEPTION VALVE PAV21

DESCRIPTION

The PAV series angle seat interception valves are designed for use with steam, gases and other fluids used in the process industry. They are the efficient solution to fluid interception in applications where flexibility and affordable cost are required.

MAIN FEATURES

Stainless steel body with high coefficient of flow. Resistance to corrosion. Low air consumption. Nylon rotational servo control. Self-centring plug with soft sealing. Live loading packing gland.

OPTIONS:	Pilot solenoid valves. Inductive travel switch.
USE:	Saturated steam, water and other fluids compatible with the construction.
AIR SUPPLY:	5 bar – 8 bar.
ACTUATORS CONNECTIONS: AVAILABLE MODELS:	PPI-63: G1/8" NPT; PPI-90: G1/4" NPT. PAV21 - Pneumatic angle valve.
SIZES:	1/2" to 2".
CONNECTIONS:	Threaded ISO 7/1 Rp.



LIMITING CONDITIONS						
Valve model	PAV21					
Body design conditions	PN16					
Max. working temperature	200 °C					
Min. working temperature	- 10 °C					

FLOW RATE COEFFICIENTS								
	SIZES							
	1/2" 3/4" 1" 11/4" 11/2" 2"							
Kvs	4,8	9,5	18	23,2	32,7	52,6		

CE MARKING – GROUP 2 (PED – European Directive)							
PN16 Category							
1/2" to 2"	/2" to 2" SEP						









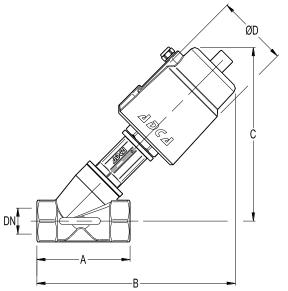
MAX. PERMISSIBLE PRESS. DROP (bar) Normally closed valve (fluid to open) Reverse action actuator (air signal to open)

ACT.	AIR	SIZES							
Туре	PRESSURE	1/2"	3/4"	1"	11/4"	11/2"	2"		
PPI-63	5 – 8 bar	16	16	14	-	-	-		
PPI-90	5 – 8 bar	-	-	-	16	16	10		

Note: Waterhammer free design.

MAX. PERMISSIBLE PRESS. DROP (bar) Normally closed valve (fluid to close) Reverse action actuator (air signal to open)

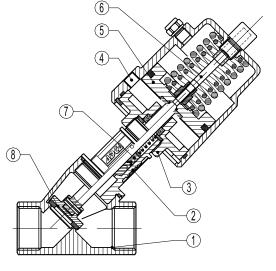
ACT. TYPE	AIR	SIZES							
	PRESSURE	1/2"	3/4"	1"	11/4"	11/2"	2"		
PPI-63	5 – 8 bar	16	16	16	-	-	-		
PPI-63	6 – 8 bar	16	16	16	-	-	-		
PPI-63	7 – 8 bar	16	16	16	-	-	-		
PPI-90	5 – 8 bar	-	-	-	16	-	-		
PPI-90	6 – 8 bar	-	-	-	16	16	-		
PPI-90	7 – 8 bar	-	-	-	16	16	16		



Note: not recommended when controlling liquids at high speed due to waterhammer occurrence.

DIMENSIONS (mm)									
			С	ØD	С	ØD	WGT.	WGT.	
SIZE	A	В	ACTU PPI	ATOR -63	ACTU PPI	-	w/PPI63 (kg)	w/PPI90 (kg)	
1/2"	68	174	155	75	155	110	1,35	2,4	
3/4"	75	182	158	75	158	110	1,45	2,5	
1"	90	190	166	75	166	110	1,65	2,7	
11/4"	116	261	227	75	227	110	2,3	3,3	
11/2"	116	265	229	75	229	110	2,55	3,5	
2"	138	282	238	75	238	110	3,6	4,7	

	MATERIALS							
POS. №	DESIGNATION	MATERIAL						
1	Valve body	CF8M / 1.4408						
2	Bonnet	CF8 / 1.4308						
3	Actuator flange	CF8 / 1.4308						
4	Actuator cover	CF8 / 1.4308						
5	Piston	Aluminium						
6	Indication stem	Plastic						
7	* Packing	PTFE/GR						
8	* Valve plug	AISI 316 / 1.4401; PTFE/GR						
9	** Travel switch	Metal						
10	** SV32C solenoid valve	Aluminium alloy						



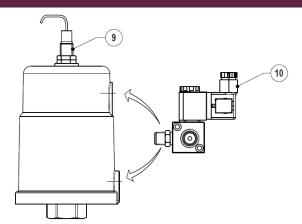
* Available spare parts.

** Optional.

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** TRAVEL SWITCH

The travel switch provides an electrical signal that indicates either the open or closed position of the valve. This signal is given by a non-contact electronic inductive proximity sensor.

ORDERING CODES PAV21								
VALVE CODES PA	.21	1	Α	15	Α	.X.		
Group designation								
Pneumatic on-off angle valve PA	'							
Valve model								
Two way straight design, stainless steel construction	.21	_						
Valve plug								
PT (on-off) – Soft (PTFE/GR)		1	1					
			-					
Pipe connection			-					
Female threaded ISO 7/1 Rp			Α					
Female threaded NPT			С					
Size								
1/2"				15				
3/4"				20				
Fluid direction						-		
Fluid enters above the seat					Α			
Fluid enters below the seat					В			
Actuator						(1)		
Extras (3)								
Full description or additional codes have to be added in case of non-standard combination							Е	

ACTUATOR CODES (pneumatic)	PI.			
Group designation				
Piston linear actuator	PI.			
Actuator size				
Piston pneumatic actuator PPI 63		.63		
Piston pneumatic actuator PPI 90		.90		
Actuator type				
Direct action (air to close)			.D	
Reverse action (air to open)			.R	
Actuator Construction				
Stainless steel				(2)

→ To be introduced on ".X.", if supplied in combination with the valve.

Example:

PAV valve, on-off soft plug, DN 15, fluid entering above the seat, complete with reverse action stainless steel actuator:

Code: PAV.211A15A.90.R

REMARKS:

- (1) Indicate actuator type.
 (2) Omitted if the standard valve is selected.

ADCATrol control valves are identified by a serial number on a nameplate, located on the actuator yoke.

When ordering spares, always use that serial number. If the valve has non-standard extras the serial number also has an E (extras).

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