

PNEUMATIC CONTROL VALVES PPV25I ON/OFF

DESCRIPTION

The PPV25I on/off valves are single seated, two-way body constructed with in-line straight connections. The PPI pneumatic actuator is of the piston type.

Their wide application range allows the use of this valve with the most common process fluids such as water, superheated water, steam, air, gas and other fluids.

MAIN FEATURES

Single seated, two way, direct or reverse action valve.

Soft sealing as standard.

Actuator housing 360° rotation (clockwise).

OPTIONS AND

- ACCESSORIES:**
- Air filter regulator.
 - Normally open and double effect actuator versions.
 - Inductive travel switch.
 - Pilot solenoid valve.

- USE:**
- Saturated and superheated steam.
 - Hot and superheated water.
 - Air, gases and other non corrosive fluids.

- AVAILABLE MODELS:**
- PPV25I – stainless steel.

- SIZES:**
- 1/2" to 1".

- CONNECTIONS:**
- Female threaded ISO 7 Rp or NPT.

- AVAILABLE ACTUATORS:**
- PPI-63 (stainless steel).
 - PPI-90 (stainless steel).

- ACTUATORS CONNECTIONS:**
- PPI-63: 1/8" NPT.
 - PPI-90: 1/4" NPT.



AIR SUPPLY

PRESURE: 5 – 8 bar (max. 8 bar).

AMBIENT

TEMP.: -20 °C to 70 °C.

BONNET: Standard – up to 220 °C.
Extended finned – above 220 °C.

STEM SEALING: PTFE/GR V-Rings – up to 220 °C.

PLUG DESIGN: PT – on/off.

PORT: Full port as standard.

CE MARKING – GROUP 2 (PED – European Directive)

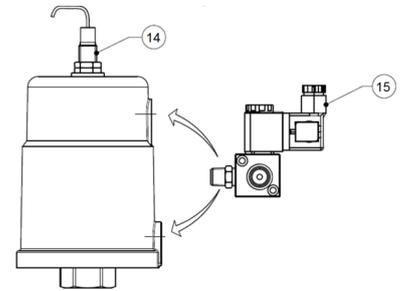
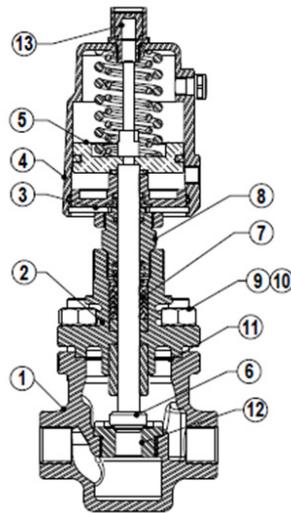
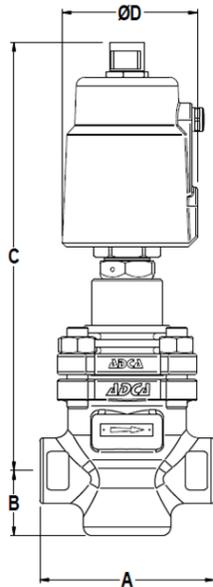
PN 25	Category
1/2" to 1"	SEP

BODY LIMITING CONDITIONS *

ALLOWABLE PRESSURE	RELATED TEMPERATURE
25 bar	-10 °C / 50 °C
21 bar	200 °C
19,8 bar	250 °C
18,5 bar	300 °C

* Rating according to EN 1092-1:2018.

Remarks: Max. temperature limited to the valve packing selected. Valves with soft sealing, max. allowable temperature: 200 °C.



DIMENSIONS (mm)					
SIZE	A	B	C	D	WEIGHT (kg)
1/2"	100	37,5	250	75	3,9
3/4"	100	37,5	250	75	3,9
1"	100	37,5	250	75	4,9

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.

FLOW RATE COEFFICIENTS (m³/h)			
SIZE	1/2"	3/4"	1"
Kvs	5,2	7,3	11,7

For conversion Kvs = Cv (US) x 0,855.

MAX. PERM. PRESSURE DROP (bar) – N.C. (fluid to open) – Reverse action actuator (air signal to open)			
ACTUATOR	VALVE SIZE		
	1/2"	3/4"	1"
PPI-63	21	18	8
PPI-90	25	25	24

MATERIALS		
POS. N°	DESIGNATION	MATERIAL
1	Valve body	A351 CF8M / 1.4408
2	Bonnet	A351 CF8M / 1.4408
3	Actuator flange	A351 CF8 / 1.4308
4	Actuator cover	A351 CF8 / 1.4308
5	Piston	Aluminium
6	* Valve plug	AISI 316 / 1.4401; PTFE/GR
7	* Packing	PTFE/GR
8	Gland nut	AISI 316 / 1.4401
9	Studs	Stainless steel A4-70
10	Nuts	Stainless steel A4-70
11	Gasket	Stainless steel / Graphite
12	Seat	AISI 316 / 1.4401
13	Indication stem	Plastic
14	** Travel switch	Metal
15	** SV32C valve	Alluminium alloy

* Available spare parts.

** Optional.

ORDERING CODES PPV25I								
VALVE CODES	PPV	.25I	9	A	15	A	.X.	
Group designation								
Pneumatic on/off valve	PPV							
Valve model								
A351 CF8M body, stainless steel trim		.25I						
Valve plug								
PT (on/off) – Soft (PTFE/GR)			9					
PT (on/off) – Metallic (AISI 316 / 1.4401)			10					
Pipe connection								
Female threaded ISO 7 Rp				A				
Female threaded NPT				C				
Size								
1/2"					15			
3/4"					20			
1"					25			
Fluid direction								
Fluid enters above the seat						A		
Fluid enters below the seat						B		
Actuator								(1)
Extras								
Full description or additional codes have to be added in case of non-standard combination.								E

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

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

Example:

PPV25I valve model, on/off soft plug, size 1/2", fluid entering above the seat, complete with reverse action stainless steel actuator PPI-63:

Code: PPV.25I9A15A.63.R

REMARKS:

- (1) – Indicate actuator.
- (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 has also an E (extras).