

# IPVA10EK AIR ADMIT VALVE NW10



The IPVA10EK is a solenoid operated valve designed for automatic admittance of air or vent gas into a vacuum system. The valve has two ports with NW flanges. One of the valve ports is connected to the vacuum system, the other port can be left open to atmosphere or connected to a vent gas supply. The vacuum system is isolated from atmosphere (or the vent gas supply) by a fluoroelastomer pad on the base of the valve plunger, which seals against the body of the valve.

## Features and benefits

- Normally open or normally closed option.
- Small envelope.
- IP65 protection.
- MTTF 500,000 cycles.

## IPVA10EK Air Admit Valve NW10

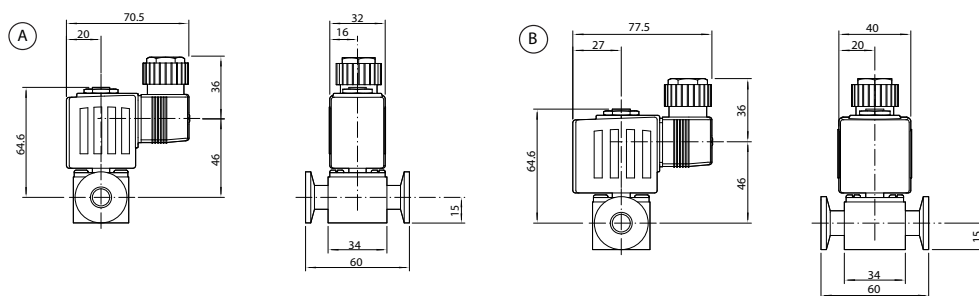
### Ordering information



Product description	Order no:
IPVA10EK, 230 V a.c. (normally open)	C41760000
IPVA10EK, 110 V a.c. (normally open)	C41760100
IPVA10EK, 24 V d.c. (normally open)	C41760200
IPVA10EK, 230 V a.c. (normally closed)	C41770000
IPVA10EK, 110 V a.c. (normally closed)	C41770100
IPVA10EK, 24 V d.c. (normally closed)	C41770200



## IPVA10EK NW10 Dimension



### Normally Open Valves Voltage

C417-60-000	230 V a.c.	Figure A
C417-60-100	110 V a.c.	Figure A
C417-60-200	24 V d.c.	Figure A

### Normally Closed Valves

C417-70-000	230 V a.c.	Figure A
C417-70-100	110 V a.c.	Figure A
C417-70-200	24 V d.c.	Figure B

## Technical Data

IPVA10EK Air Admit Valve NW10		
Operating temperature range	-20 to 55 °C	
Vent gas temperature range	-10 to 130 °C	
Venting rate	10 litres in 12 s	
Response time	20 ms to open/30 ms to close	
Maximum cycle frequency	100 min <sup>-1</sup>	
Reliability (MTTF)	500,000 cycles	
Leak rate	<1 x 10 <sup>-6</sup> mbar ls <sup>-1</sup> / $<8 \times 10^{-7}$ Torr ls <sup>-1</sup>	
Electrical supply	110 V a.c. 1ph, 50/60 Hz 230 V a.c. 1ph, 50/60 Hz 24 V d.c.	
Tolerance	Normally closed	Normally open
a.c.	-10% to +10%	-10% to +10%
d.c.	-10% to +10%	-5%* to +10%
Power	Normally closed	Normally open
a.c.	5 W	7 W
d.c.	5 W	9 W
Enclosure rating	IP65	
Weight	350 g/11 oz	
Materials of construction**		
Body	Aluminium	
Valve seal	Fluoroelastomer	
Actuator	Stainless steel	
Coil insulation	Class H	
Shading rings	Silver	

The air or vent gas path through the valve is free from heavy metals.

\*Voltage tolerance reduced at elevated ambient temperatures, maximum recommended ambient temperature: 40 °C

\*\*Normally open variants have an additional carbon loaded PTFE slide ring within the vacuum envelope