# **AV5A Air Admittance Valve With Couplings**

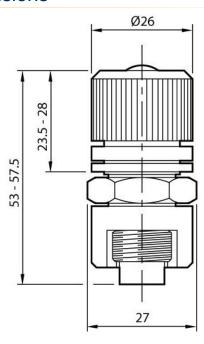


The AV5A is manufactured in aluminum alloy. It has a control knob attached to a screwactuated plunger: turn the control knob clockwise to close the valve. A nitrile 'O' ring seals the plunger to the valve body.

The valve can be connected directly, pipeline supported or panel mounted, and is connected to the vacuum system with the Edwards SC5 coupling (supplied).



#### **Dimensions**



#### **Technical Data**

Materials of construction

Body

Plunger

Seal

Leak rate across seat Leak rate through body

Panel mounting

Vacuum connections

Weight

HE30 aluminum / nickel plated

brass

HE30 aluminum

Nitrile

 $10^{-7}$  mbar Is  $^{-1}$  / 8 x  $10^{-8}$  Torr Is  $^{-1}$  $10^{-1}$  mbar  $ls^{-1} / 8 \times 10^{-2}$  Torr  $ls^{-1}$ Ø 17 mm / Ø 0.66 in hole, 3 mm / 0.117 in maximum thickness

SC5 couplings or 3/8 inch BSP threaded body and bonded seal

85 g/3 oz

### **Ordering Information**

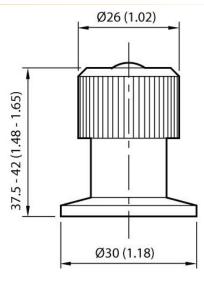
Product Description	Order No.
AV5A Air Admittance Valve With Couplings	C35003000
Accessories & Spares	Order No.
O Ring Nitrile Vor 2A Pk 10	H02105115
Dowty Seal 3/8 BSP MkC	H02104003



The AV10K is manufactured in aluminum alloy. It has a control knob attached to a screwactuated plunger: turn the control knob clockwise to close the valve. A nitrile 'O' ring seals the plunger to the valve body.

The valve can be pipeline supported only, and is connected to the vacuum system with an NW10 fitting.

#### **Dimensions**



#### **Technical Data**

Materials of construction

Body Control knob

Seal

Leak rate across seat Leak rate through body

Vacuum connections

Weight

HE30 aluminum

Nylon 6

 $10^{-7}$  mbar Is<sup>-1</sup> / 8 x  $10^{-8}$  Torr Is<sup>-1</sup>

 $10^{-1}$  mbar Is<sup>-1</sup> / 8 x  $10^{-2}$  Torr Is<sup>-1</sup>

NW10

100 g / 3.5 oz

## **Ordering Information**

Product escription	rder o.
AV10K Air Admittance Valve  ccessories Spares	C35103000
O Ring Nitrile Vor 2A Pk 10	H02105115

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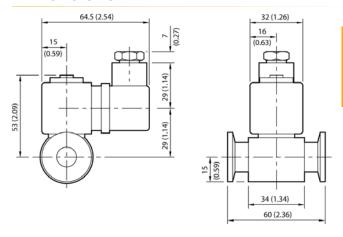
The IPVA10EK is a solenoid operated valve designed for automatic admittance of air or vent gas into a vacuum system. The valve has two ports with NW flanges. One of the valve ports is connected to the vacuum system, the other port can be left open to atmosphere or connected to a vent gas supply. The 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 & Benefits

- Normally open or normally closed option.
- Small envelope
- IP65 protection
- MTTF 100000 Cycles

#### **Dimensions**



#### **Technical Data**

Operating temperature range -20 to 55 C Vent gas temperature range -10 to 130 C Venting rate 10 litres in 12 s Response time 30 ms Maximum cycle frequency 100 min<sup>-1</sup>

Reliability (MTTF) 10<sup>5</sup> cycles  $1 \times 10^{-9} \text{ mbar Is}^{-1} / 8 \times 10^{-10} \text{ Torr}$ Leak rate

110V or 240V a.c. 1-ph, 50/60 Electrical supply

Hz or 24V d.c.

Tolerance

-10% to 10% a.c. -5% to 10% d.c.

Power

9.3 VA inrush 6.3 VA hold a.c.

5W **Enclosure rating** IP65 Weight 310 g / 11 oz

Materials of construction

Body Aluminium Valve seal Fluoroelastomer Actuator Stainless steel Coil insulation Class F

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

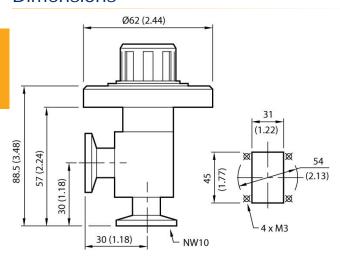
### **Ordering Information**

Product escription	rder o.		
IPVA10EK, 240 V a.c. (normally open)	C41721000		
IPVA10EK, 110 V a.c. (normally open)	C41722000		
IPVA10EK, 24 V d.c. (normally open)	C41723000		
IPVA10EK, 240 V a.c. (normally closed)	C41731000		
IPVA10EK, 110 V a.c. (normally closed)	C41732000		
IPVA10EK, 24 V d.c. (normally closed)	C41733000		



The LV10K needle valve provides fine control of gas bleed into a vacuum chamber or a regulated leak to control pressure in a vacuum system and is suitable for gas admission down to 10<sup>-5</sup> mbar / 8 x 10<sup>-6</sup> Torr. Suitable for pipeline or panel mounting.

### **Dimensions**



## **Ordering Information**

Product escription	rder o.
LV10K Leak Valve NW10 Flanges	C37102000
ccessories Spares	rder o.
Spares Kit Valve Seat	C37102812

### **Technical Data**

Vacuum connection

Weight (g/oz)

Materials of construction	
Body	Aluminium HE30
Seat	Brass BS2784 C2112
Needle	Martensitic stainless steel EN56AM
Filter	Brass BS249
Max flow rate (approx)*	0.1 ls <sup>-1</sup>
Max inlet pressure	2000 mbar / 1500 Torr
Max leak rate, across seat	10 <sup>-7</sup> mbar Is <sup>-1</sup> / 8 x 10 <sup>-8</sup> Torr Is <sup>-1</sup>
Max leak rate, across body	10 <sup>-7</sup> mbar Is <sup>-1</sup> / 8 x 10 <sup>-8</sup> Torr Is <sup>-1</sup>

 $^{\star}$  Flow rate relates to a pressure differential across valve of one bar.

NW10

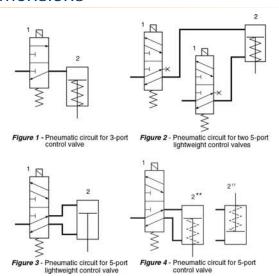
138 g / 4.8 oz

#### lectropneumatic alve ontrol

Electropneumatic control valves can be used to control the operation of pneumatically activated vacuum valves. Control valves are available with different electrical supply voltages and frequencies to suit your application.



### **Dimensions**



### **Ordering Information**

Product escription	rder o.
3-Port, 24V d.c, 1/8 Inch BSP	H06200124
3-Port, 24 V a.c, 50/60 Hz, 1/8 Inch BSP	H06200125
3-Port, 48 V d.c, 1/8 Inch BSP, North America	H06200130
3-Port, 110 V a.c, 50/60 Hz, 1/8 Inch BSP	H06200126
3-Port, 230 V a.c, 50/60 Hz, 1/8 Inch BSP	H06200138
5-Port, 24 V d.c, 6mm BSP	B28703055
5-Port, 24 V a.c, 50/60 Hz, 6mm BSP	B28703030
5-Port, 110 V a.c, 50/60 Hz, 6mm BSP	B28703031
5-Port, 230 V a.c, 50/60 Hz, 6mm BSP	B28703032

#### **Technical Data**

alve	alve pe	ecommend ontrol alve on iguration	Schematic
GV gate valves	Double-acting cylinder with no spring return	1 x 5-port	3
PVPK pipeline valves soft start	Single-acting cylinder with spring return	1 x 3-port	1
BRV backing/roughi ng valve	Double-acting cylinder with spring return to the mid- position (that is, isolated position)	2 x 5-port or (1 x 5-port)	2*(4 )
QSB63/100/16 0 quarter swing butterfly valves, Diffstak isolation-valves		1 x 5-port	4
Suppl pressure	3 port	5 port	
bar gauge	2.1 - 8	3.4 - 4.8	
Psig	30 – 115	50 - 70	

<sup>\*</sup> This configuration allows the use of the isolated position of the

vacuum valve.

This configuration only allows the use of the roughing and backing positions of the vacuum valve.