

LCPVEK Solenoid Operation Isolation valves



Edwards' aluminum right angle LCPVEK valves are designed for vacuum applications which need a compact, simple, solenoid operation valve to control gas flow. These economical valves are ideal for a number of duties ranging from simple laboratory pump isolation to OEM vacuum system integration and design. Their versatility makes them effective both in vacuum pipelines and in chamber admittance applications.

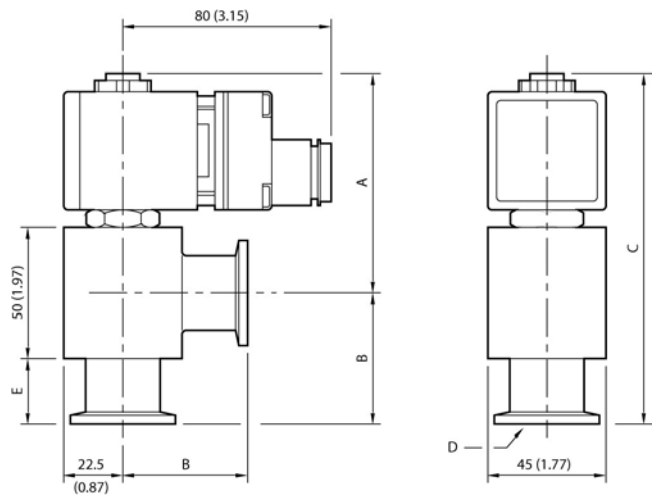
Careful design of the solenoid power control and vacuum isolation components delivers efficient magnetic actuation with optimum vacuum performance at an affordable price. This facilitates the use of an electrically actuated valve in many applications where previously this had been uneconomic.



Features & Benefits

- Economical design can be used in low budget applications
- Electrical actuation
- Low power requirements
- Electronic boost power supply
- Efficient magnetic design

Dimensions



(mm)	A	B	C	D	E
LCPV16EK	95	40	135	NW16	17.5
LCPV25EK	92.5	50	142.5	NE25	25

(inches)	A	B	C	D	E
LCPV16EK	3.33	1.56	4.89	NW16	0.69
LCPV25EK	3.24	1.95	5.19	NW25	0.98

Technical Data

Valve actuation type	Single acting, electrically opened, spring return
Molecular conductance	3 ls ⁻¹
Pressure range	1 x 10 ⁻⁶ - 1000 mbar / 7.5 x 10 ⁻⁷ - 750 Torr
Max pressure differential (open/close)	1000 mbar / 750 Torr
Time to open	60 ms
Time to close	<20 ms
Max cycle frequency	1800 h ⁻¹
Leak rate	< 1 x 10 ⁻⁶ mbar ls ⁻¹ / < 7.5 x 10 ⁻⁷ Torr ls ⁻¹
Power consumption	
Open	95 W for 60 ms
Hold	2.5 to 4 W
Reliability (MTTF)	500000 cycles
Operating temperature range	5 to 45 °C
Weight	
LCPV16EK	810g / 28oz
LCPV25EK	840g / 29oz
Enclosure rating	IP67
Voltage	
230V	±10%
110V	-10% +15%
24V a.c./d.c.	-10% +15%
Construction materials	
Body	Aluminium, stainless steel
Seals	Fluoroelastomer

Ordering Information

Product Description	Order No.
LCPV16EKA, 24V ac,dc, aluminium	C41751200
LCPV16EKA, 110V, 50/60Hz, aluminium	C41751100
LCPV16EKA, 230V 50/60Hz aluminium	C41751000
LCPV25EKA, 24V ac,dc, aluminium	C41752200
LCPV25EKA, 110V 50/60Hz, aluminium	C41752100
LCPV25EKA, 230V, 50/60Hz, aluminium	C41752000