

ZK2*A, Vacuum Unit, Ejector System, Single Unit ZK2B15K5RWA-08

Datasheet

General series information

- Dual 2 port valve (Release valve/Supply valve).
- Efficient 2-stage ejector.
- Pressure sensor / switch variations with energy-saving function available.



Dual stage modular ejector - with valves and switch

Standard specifications

Body type	B (Single Unit - Port Exhaust)	
Nominal Nozzle Size	15 (ø1.5)	
Supply Valve / Release Valve	K (N.C. / N.C.)	
Rated Voltage	5 (24 VDC)	
Pressure Sensor/Digital Pressure Switch for Vacuum Spec.	R (Digital Pressure Switch for Vacuum with Energy Saving Function / 100 to -100 kPa / PNP 1 Output / Unit Selection Function)	
Supply Valve/Release Valve/Digital Pressure Switch for Vacuum Connector Spec.	W (With Lead Wire for Switch with Energy Saving Function)	
Vacuum (V) Port	08 [ø8 One-touch Fitting (Metric)]	
Bracket	None	
Individual Release Pressure Supply	None	
Screwdriver Operation Type Long Lock Nut	None	
Vacuum Break Flow Adjustment	None	
Exhaust Interference Prevention Valve	None	
Pressure medium	Air	
Proof pressure	500 kPa	
Conform to the European RoHS Directive	Conform	
Element nominal filtration rating	30 μm	
Repeatability	±0.2 % F.S. ±1 digit	
Set pressure range	-105 - 105 kPa	

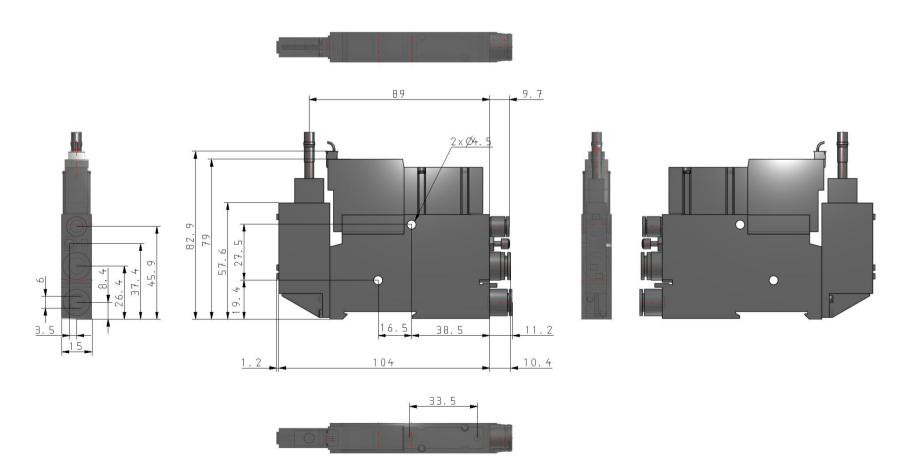
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Current consumption	40 mA or less	
Applicable fluid	Air	
Rated pressure range	-100 - 100 kPa	
Power supply voltage	12 to 24 VDC ±10 %, Ripple (p-p) 10 % or less (Protected against reverse connection)	
Switch output	PNP open collector OUT1: General purpose, OUT2: Valve control	
Supply pressure range (MPa)	0.3 - 0.6 MPa	
Standard supply pressure	0.4 MPa	
Maximum vacuum pressure	-91 kPa	
Air consumption 90 l/min		
Operating temperature range	5 - 50 °C	
bration resistance 20 m/s ²		
Impact resistance	100 m/s ²	
Smallest settable increment	0.1 kPa	
Display	3 1/2 digit, 7-segment LED, Colour display (Red)	
Display accuracy	±2 % F.S. ±1 digit (Ambient temperature at 25 ±3 °C)	
Indicator light	Lights up when output is turned ON. OUT1: Green, OUT2: Red	
Insulation resistance	50 $\mbox{M}\Omega$ or more (500 VDC measured via megohmmeter) between terminals and housing	
Switch output Max. applied voltage	26.4 VDC	
Valve type of actuation	Supply valve: N.C. Release valve: N.C.	
Valve configuration	Pilot operated dual 2-port	
Valve operating pressure range	0.3 - 0.6 MPa	
Valve construction	Popper seal	
Valve rated voltage	24 VDC	
Valve power consumption	0.4 W	
Valve lead wire (ZK2-LV**-A)	Cross section: 0.2 mm² (AWG24) Insulator O.D.: 1.4 mm	
Suction filter, Filtration area	510 mm ²	
Switch output max. load current	80 mA	
Switch output residual voltage	2 V or less (at load current of 80 mA)	
Switch output response time	2.5 ms or less (with anti-chattering function: 20, 100, 500, 1000, 2000 ms)	
Switch output short circuit protection	Yes	
Hysteresis	Variable from 0	
Switch temperature range	5 - 50 °C	
Switch withstand voltage	1000 VAC for 1 minute between terminals and housing	
Switch temperature characteristics	±2 % F.S. (at 25 °C in an operating temperature range of 5 and 50 °C)	
Switch lead wire	Cable: 5 cores Ø 3.5, 2 m Cross section: 0.15 mm² (AWG26) Insulator O.D.: 1.0 mm	
Max. suction flow, port exhaust	89 I/min	
Enclosure	IP40	
Weight	0.152 Kg	

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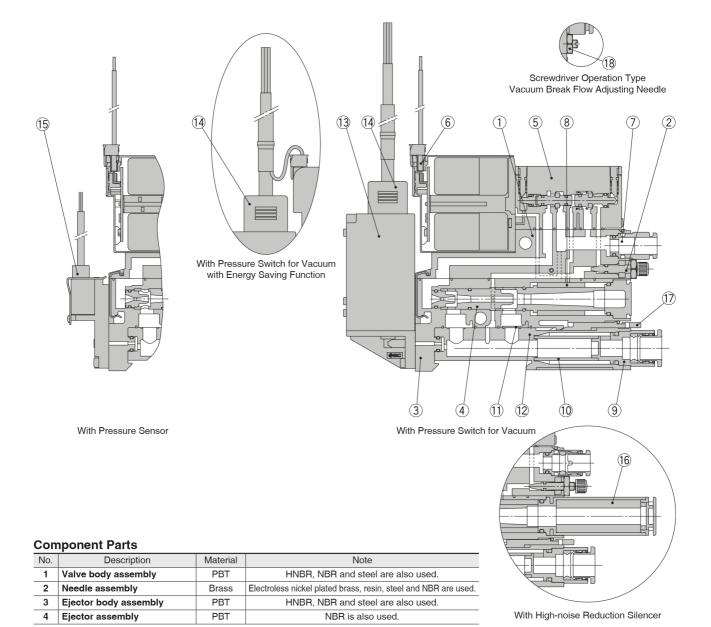
Dimensions



Specifications are subject to change without prior notice and any obligation on the part of the manufacturer.

Constructions

SMC



Replacement Parts

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Description	Note
Valve assembly	_
Connector assembly	Connector for solenoid valve 3 wire (For valve type K/R), 2 wire (For valve type J)
One-touch fitting assembly	Metric size: O 6, Inch size: O 1/4"
Sound absorbing material	10 pcs. per set
Vacuum port adapter assembly	With One-touch fitting and filter element
Filter element	Nominal filtration rating: 30 μm, 10 pcs. per set
Body gasket	Gasket integrated with the exhaust interference prevention valve, 10 pcs. per set
12 Filter case	Case body: Polycarbonate (Refer to the Specific Product Precautions on page 47.)
	Clear filter case: without a port for the pressure switch or sensor, Opaque filter case: with a port for the pressure switch or sensor
Vacuum pressure switch assembly	With 2 screws and 1 gasket
Lead wire with connector	_
Pressure sensor assembly	With 2 screws and 1 gasket
High-noise reduction silencer case assembly	With sound absorbing material (Part number: ZK2-SE4-6-A)
Release lever	10 pcs. per set
Lock nut	10 pcs. per set
	Description Valve assembly Connector assembly One-touch fitting assembly Sound absorbing material Vacuum port adapter assembly Filter element Body gasket Filter case Vacuum pressure switch assembly Lead wire with connector Pressure sensor assembly High-noise reduction silencer case assembly Release lever

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Additional information

Catalogue ZK2A-B_EU.pdf

Declaration of conformity newDoC_ZK2-A_TF1Z208EN.pdf

Installation manuals IM_ZK2-A_TF2Z368EN-A.pdf

Operation manuals OM_ZK2-ZSV-A_OM00501EN-B.pdf

OM_ZK2xA_OM01301EN.pdf