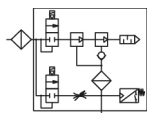


ZK2*A, Vacuum Unit, Ejector System for Manifold ZK2C10J5PL1A-06

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.

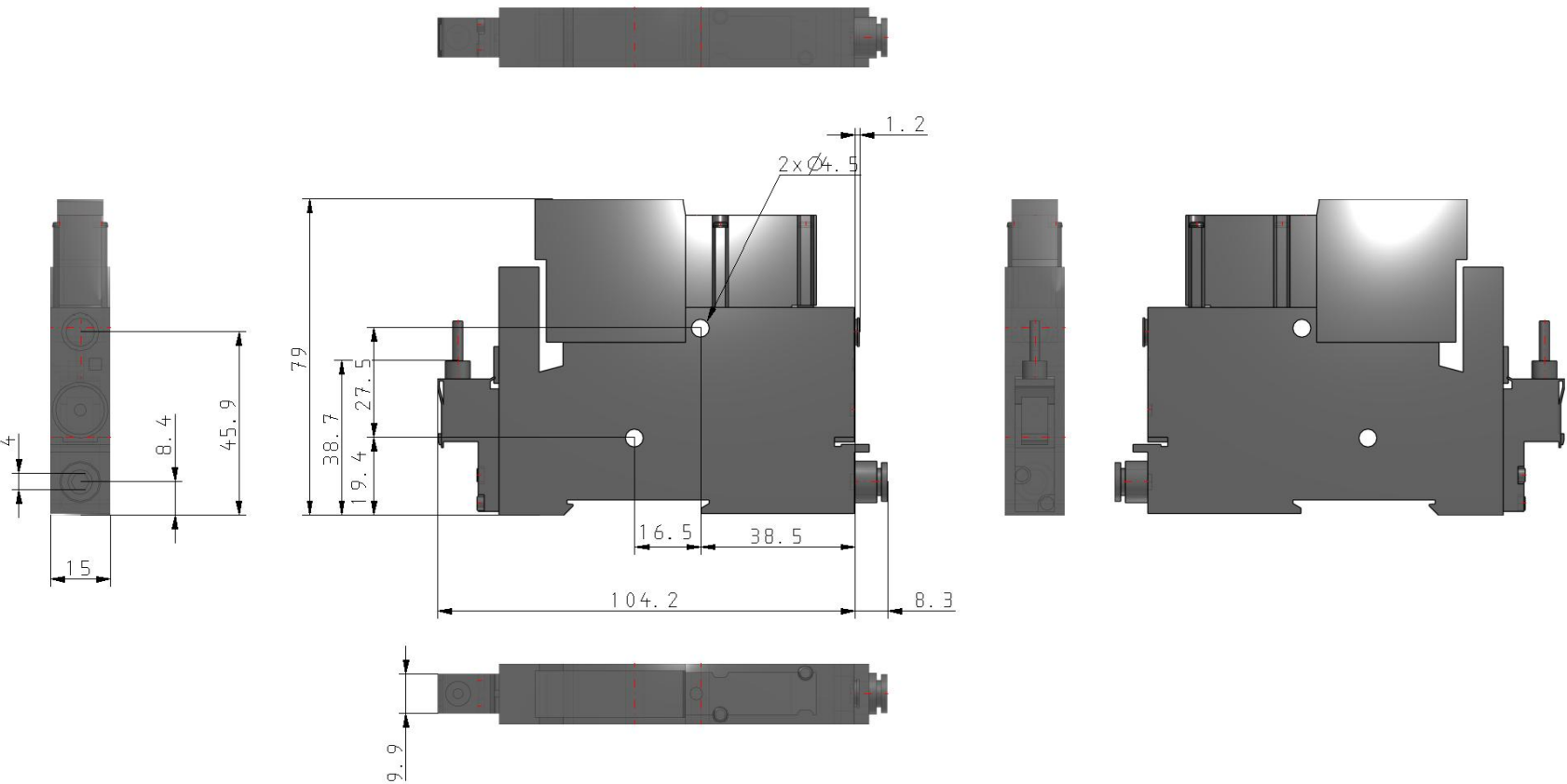


Dual stage modular ejector - with valves and switch

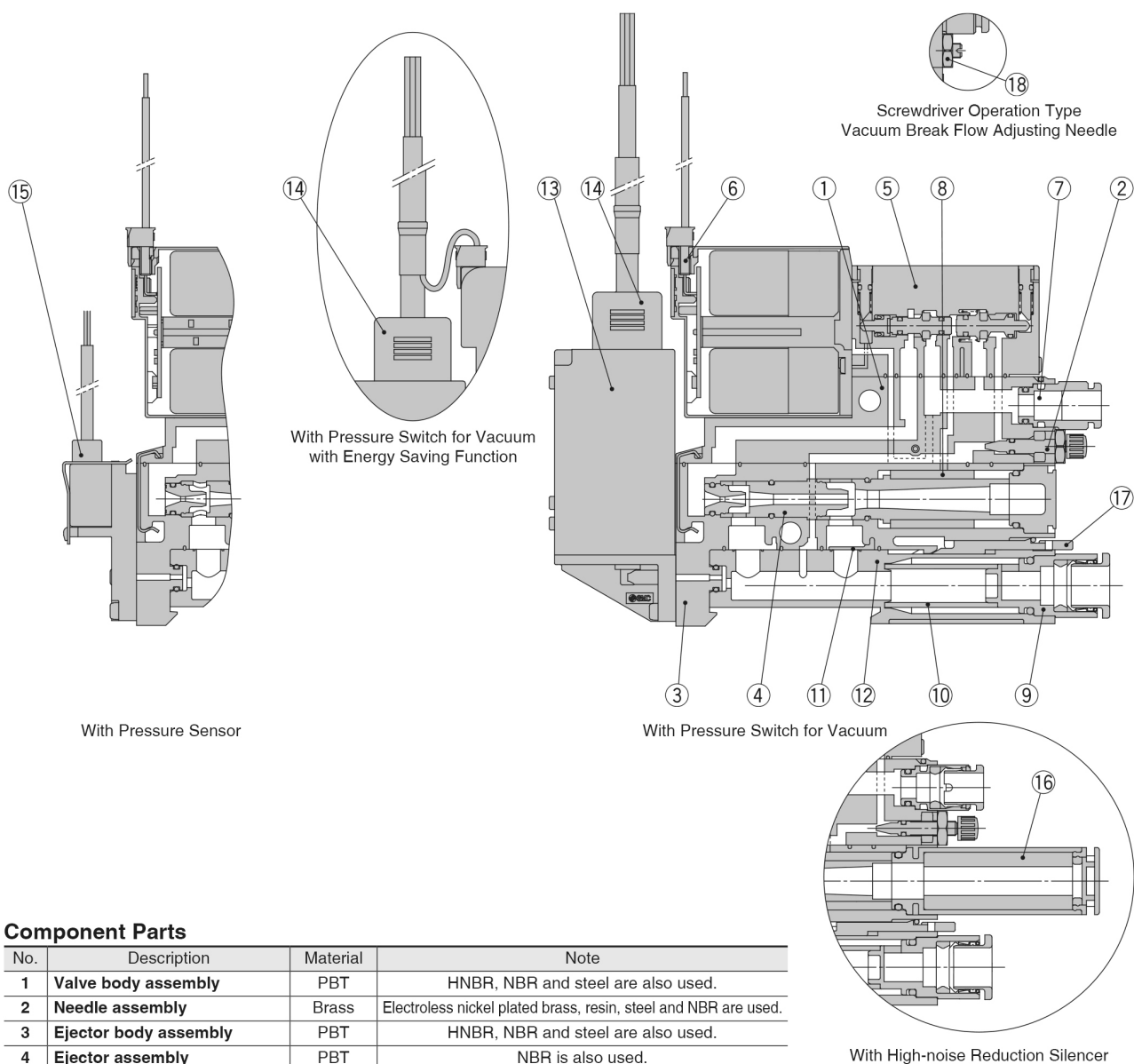
Standard specifications

Body type	C (For Manifold - Common Silencer Exhaust)
Nominal Nozzle Size	10 (ø1.0)
Supply Valve / Release Valve	J (N.C. / None)
Rated Voltage	5 (24 VDC)
Pressure Sensor/Digital Pressure Switch for Vacuum Spec.	P (Pressure Sensor / 0 to -101 kPa / Analogue Output 1 to 5 V)
Supply Valve/Release Valve/Digital Pressure Switch for Vacuum Connector Spec.	L1 [L-type Plug Connector - w/o Lead Wire with Connector - w/ Lead Wire with Connector for Pressure Switch/sensor]
Vacuum (V) Port	06 [ø6 One-touch Fitting (Metric)]
Screwdriver Operation Type Long Lock Nut	None
Vacuum Break Flow Adjustment	None
Manifold Individual Supply	None
Manifold Common Release Pressure Supply	None
Exhaust Interference Prevention Valve	None
Proof pressure	500 kPa
Conform to the European RoHS Directive	Conform
Current consumption	15 mA or less
Manual override	Push type
Repeatability	±0.2 % F.S.
Linearity	±0.4 % F.S.
Applicable fluid	Air

Rated pressure range	-101 - 0 kPa
Power supply voltage	12 to 24 VDC ± 10 %, Ripple (p-p) 10 % or less
Supply pressure range (MPa)	0.3 - 0.6 MPa
Noise level	66 dB
Standard supply pressure	0.35 MPa
Maximum vacuum pressure	-91 kPa
Air consumption	40 l/min
Operating temperature range	0 - 50 °C
Vibration resistance	30 m/s ²
Impact resistance	150 m/s ²
Accuracy	± 2 % F.S. (Ambient temperature at 25 °C)
Valve type of actuation	Supply valve: N.C. Release valve: None
Valve configuration	Pilot operated 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 mm ² (AWG24) Insulator O.D.: 1.4 mm
Suction filter, Filtration area	510 mm ²
Output voltage	1 - 5 VDC
Effect of power supply	± 0.8 % F.S.
Sensor temperature range	Stored: -20 to 70 °C (No condensation or freezing)
Sensor humidity range	Operating/Stored: 35 to 85 % RH (No condensation)
Sensor temperature characteristics	± 2 % F.S. or less (Ambient temperature: 25 °C reference)
Case material	Resin case: PBT
Pressure sensing section material	Sensor pressure receiving area: Silicon, O-ring: HNBR
Sensor lead wire	Oil-resistant vinyl cabtire cable (elliptic), 3 cores, 2.7 x 3.2 mm, 3 m; Cross section: 0.15 mm ² , Insulator O.D.: 0.9 mm
Analogue voltage output - Output Impedance	Approx. 1 k Ω
Max. suction flow, Silencer exhaust/Complex exhaust	44 l/min
Suction filter, Nominal filtration rating	30 μ m
Weight	0.140 Kg



Constructions



Component Parts

No.	Description	Material	Note
1	Valve body assembly	PBT	HNBR, NBR and steel are also used.
2	Needle assembly	Brass	Electroless nickel plated brass, resin, steel and NBR are used.
3	Ejector body assembly	PBT	HNBR, NBR and steel are also used.
4	Ejector assembly	PBT	NBR is also used.

Replacement Parts

No.	Description	Note
5	Valve assembly	—
6	Connector assembly	Connector for solenoid valve 3 wire (For valve type K/R), 2 wire (For valve type J)
7	One-touch fitting assembly	Metric size: Ø 6, Inch size: Ø 1/4"
8	Sound absorbing material	10 pcs. per set
9	Vacuum port adapter assembly	With One-touch fitting and filter element
10	Filter element	Nominal filtration rating: 30 µm, 10 pcs. per set
11	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
13	Vacuum pressure switch assembly	With 2 screws and 1 gasket
14	Lead wire with connector	—
15	Pressure sensor assembly	With 2 screws and 1 gasket
16	High-noise reduction silencer case assembly	With sound absorbing material (Part number: ZK2-SE4-6-A)
17	Release lever	10 pcs. per set
18	Lock nut	10 pcs. per set

Additional information

Catalogue	ZK2A-C_EU.pdf
Declaration of conformity	newDoC_ZK2-A_TF1Z208EN.pdf newDoC_ZK2-A_TF124-124EN.pdf
Installation manuals	IM_ZK2-A_TF2Z368EN-B.pdf
Operation manuals	OM_ZK2-ZSV-A_OM00501EN-C.pdf OM_ZK2xA_OM01301EN.pdf