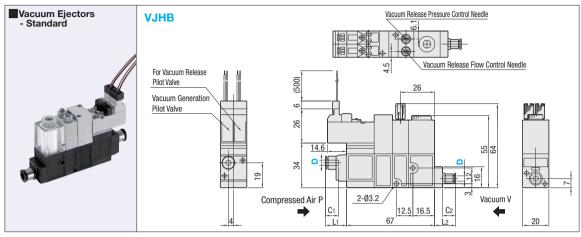
Vacuum Ejectors

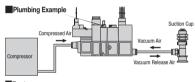
Standard Type



Part Number		Nozzle Dia. N	Nozzle	L ₁	La	C ₁	C ₂	Ultimate	Suction Flow	Flow Consumption	Mass	Unit Price	Volume Discount Rate
Type	D	Nominal	Dia. (mm)	Li	L2	C1	C2	Vacuum (-kPa)	(l/min (ANR))	(l/min (ANR))	(g)	1 ~ 9 pc (s).	10~20
VIIID	4	5	0.5	14.6	14.3	10.9	10.9	90.4	7	11.5	164.5		
		7	0.7					93.1	13	23			
VJHB	_	5	0.5	17.1	17.2	11.7	11.7	90.4	7	11.5			
	0	7	0.7					93.1	13	23			

Material List							
Name	MMaterial						
Body Resin	Glass Fiber Filled PBT (Polybutylene Terephthalate)						
Seal Rubber	Nitrile Rubber						
Main Valve	Aluminum Alloy						
Joint Portion Metal	Brass + Electroless Nickel Plating						
Vacuum Filter Cover	PCT (Polycarbonate)						
Filter Cover Holder	Aluminum Alloy						
Vacuum Generation Nozzle	Brass + Electroless Nickel Plating						
Vacuum Generation Diffuser	Brass + Electroless Nickel Plating						
Release Air Flow Rate Control Needle	Brass + Flectroless Nickel Plating						

Air 5 ~ 50°C				
5 ~ 50°C				
0 00 0				
0.3~0.7MPa				
0.5MPa				
0~50£ / min(ANR) (When supply pressure is 0.5 MPa)				
Elastic Seal, Poppet Valve				
0.005~0.05MPa				



Features

Item

Operation Method

Valve Structure

Rated Voltage

Allowable Voltage Ran

Surge Protection Circu

Power Consumption

Manual Operation

Operation Indicator

Connection Method

Operation Method

Valve Structure

Pressure Resistance

Valve Type

Lubrication

■Electromagnetic Valve Specifications

- -Vacuum generator with built-in electromagnetic value enables compact wiring.
 -Controls over the pressure of vacuum release air (air used for release vacuum condition) to prevent a workpiece from being blown off.
- Provides the Relief function (used to relieve extra pressure) on vacuum release circuit to shorten the vacuum release time.

Electromagnetic Valve for Vacuum Generation | Electromagnetic Valve for Vacuum Rel

Direct Operation

Elastic Seal, Poppet Valve

DC24V

DC24V+10%

1.2W (with LED)

Push Type - Non-Locking

Coil Excitation Operation: Red LED On

Red: DC24V Black: COM

Air Pressure Operation with Pilot Valve

Elastic Seal, Poppet Valve

1.05MPa

NC (Normally Closed)

Not Required

■Electrical Circuit

-0V

Supply, Vacuum Release Valves

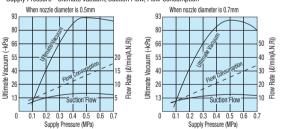
(Electromagnetic Valve)

+24V

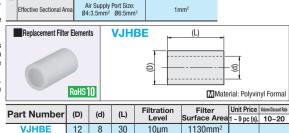
(Red)

Properties

· Supply Pressure - Ultimate Vacuum, Suction Flow, Flow Consumption



- 1. The characteristic supply pressure above is for vacuum generation
- 2. Valve can cause abnormal sounds at the supply pressure of 0.4 ~ 0.45MPa, i.e. the supply pressure value just prior to the peak value of Ultimate Vacuum. This abnormal sound indicates unstable properties, and the noise will be large. It may affect the sensor and other objects and cause troubles. Please reset supply pressure.
- [Ex.1] The original pressure is 0.5MPa. However, when the vacuum generator is operated, pressure supply declines down to 0.4MPa due to pressure drop and abnormal noise occurs. → Reset the supply pressure to 0.5MPa when vacuum generator is operating.
- \rightarrow Reset the supply pressure to 0.5MPa when vacuum generator is operating. 3. When selecting plumbing and equipment, use the triple value of the Nozzle Dia. Sectional Area as
- 3. When selecting plumbing and equipment, use the triple value of the Nozzie Dia. Sectional Area as guide of Effective Sectional Area. If adequate supply air flow rate is not retained, sufficient vacuum properties cannot be achieved. (Abnormal sound may be generated even within the Set Pressure range. Suction Flow, Ultimate Vacuum, etc. may be left insufficient.)
- [Ex. 2] Though the pressure is 0.5MPa when vacuum generator is operating, abnormal sound occurs, —hnsufficient supply air flow rate (Air flow is squeezed by pipe resistance in the vacuum generator, not obtaining supply air flow rate that meets the characteristics).
 - →Select plumbing and equipment to ensure the necessary effective sectional area.
- [Ex. 3] When nozzle diameter is 0.5mm, the sectional area is 0.25x0.25xπx3=0.59mm² →Select plumbing and equipment to retain the effective sectional area to 0.6mm² or more.



VJHBE is replacement element specific for vacuum ejector.

