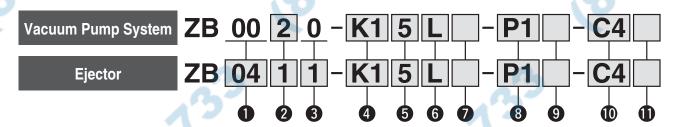
Compact Vacuum Unit Series ZB



How to Order Single Unit



Nominal Nozzle Size

	Nominal	Applicable supply valve and standard supply pressure			
Symbol	nozzle size	Large flow (N.C.)	Latching		
00 Note 1)	-0		_		
03	ø0.3 mm	● 50.8 psi (0.35 MPa)	● 58 psi (0.4 MPa)		
04	ø0.4 mm	• 50.8 psi (0.35 MPa)	• 65.3 psi (0.45 MPa)		
05	ø0.5 mm	• 50.8 psi (0.35 MPa)			
06	ø0.6 mm	72.5 psi (0.5 MPa)	_		

Note 1) Vacuum pump system only

3 Exhaust Type

Extraust Type				
0	For vacuum pump system (Without silencer)	Without exhaust port		
1	Silencer exhaust (Individual exhaust)	Exhaust direction		
2	Port exhaust (Individual exhaust)	Exhaust port		

2 Body Type

Symbol	Body specification	Port specification Note 2)	
1	Single unit	PV, PD PV, PD common port (PV = PD)	
2	Single unit	PV PD PV, PD individual port (PV ≠ PD)	
3	For manifold	No distinction	

Note 2) Names of the ports and functions are as follows.

PV: Air pressure SUP port (Ejector)
Vacuum pressure SUP port (Vacuum
pump system)

PD: Release pressure SUP port
(For the unit with PD port, select the model with a release valve for (3.)

Specify the port specification of the body to

Specify the port specification of the body for manifold with the manifold model number.

5 Rated Voltage

5	24 VDC
6	12 VDC

6 Supply Valve/Release Valve Electrical Entry Note 4)

L-type plug connec With lead wire		L-type plug connector With lead wire	
	LO	L-type plug connector Without connector	
	M-type plug connector With lead wire Note 5)		
	МО	M-type plug connector Without connector Note 5)	

Note 4) All with light and surge suppressor.

Lead wire length is 11.8 inch (300 mm) for the models with lead wire. For other lead wire length, select a model without connector and include the connector assembly part number in Table 2 on page 9.

Note 5) M- and MO-type connectors cannot be selected for models with pressure sensor or pressure switch for vacuum.

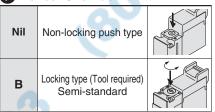
4 Combination of Supply Valve and Release Valve Note 3)

			Applicable body type			
Symbol	Supply valve	Release valve	Eje	ctor	Pump	system
			PV = PD	$PV \neq PD$	PV = PD	PV ≠ PD
K1	Normally closed	Normally closed		•	_	
J1	Normally closed	None	•*	_	•*	_
Q1	Latching (Positive common)	Normally closed			_	_
Q2	Latching (Positive common)	None	•*	_	_	_

^{*} Vacuum break by port open to atmosphere

Note 3) Refer to Table 1 on page 9 for the part number of supply valve and release valve of each specification. Latching type is applicable only to the ejector nozzle sizes @0.3 and @0.4

Manual Override Note 6)



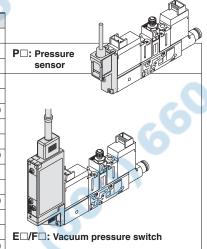
Note 6) Latching type (supply valve) has the push-locking type only, but either the push type or the locking type can be selected for the release valve.





8 Pressure Sensor/Vacuum Pressure Switch Specifications

O FIG	Pressure Sensor/vacuum Pressure Switch Specifications					
Symbol	Type	Pressure range psi (kPa)	Specifications			
Nil	Without p	ressure sensor/vacuum press	ure switch	ure switch		
P1	Pressure	0 to -14.6 (0 to -101)	Output: 1 to 5 V, accuracy: ±2% F.S. or less Note:			
P3	sensor	-14.5 to 14.5 (-100 to 100)	Output: 1	to 5 V, accuracy: ±2% F.S. or less Note 7)		
EA			NIDNI	With unit switching function Note 8)		
EAM			NPN 2 outputs	SI unit only Note 9)		
EAP		0 to -14.5 (0 to -101)	2 Outputs	With unit switching function [Initial value psi] Note 8		
EB			PNP 2 outputs	With unit switching function Note 8)		
EBM				SI unit only Note 9)		
EBP	Vacuum		2 Outputs	With unit switching function [Initial value psi] Note 8)		
FA	pressure		NDN	With unit switching function Note 8)		
FAM	switch		NPN	SI unit only Note 9)		
FAP	-14.5 to 14.5 (-100 to 100)		2 outputs	With unit switching function [Initial value psi] Note 8)		
FB		DNID	With unit switching function Note 8)			
FBM		PNP		SI unit only Note 9)		
FBP			2 outputs	With unit switching function [Initial value psi] Note 8)		



Note 7) Only the lead wire length 118 inch (3 m) is available for the pressure sensor.

Note 8) The unit switching function is not available in Japan due to a new measurement law.

Note 9) Fixed unit: kPa

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9 Lead Wire with Connector for Vacuum Pressure Switch

Nil	Without lead wire with connector (No need to specify for pressure sensor type.)		
G	Lead wire with connector and connector cover, Lead wire length 78.7 inch (2 m)		

Vacuum (V) Port Note 11)

	C2	Straight ø2 mm one-touch fitting	Metric			
	C4	Straight ø4 mm one-touch fitting	size	Note 10)		
	N1	Straight ø1/8" one-touch fitting	Inch	With suction		
	N3	Straight ø5/32" one-touch fitting	size	filter		
١	L2	Elbow ø2 mm one-touch fitting	Metric			
	L4	Elbow ø4 mm one-touch fitting	size	Note 10)		
	LN1	Elbow ø1/8" one-touch fitting	Inch	With suction		
	LN3	Elbow ø5/32" one-touch fitting	size	filter		

Note 10) The filter included in this product is of an simple type, and will become clogged quickly in environments with high quantities of dust or particulates. Please make additional use of an air suction filter of the ZFA, ZFB or ZFC series.

Note 11) Be sure to hold the filter case when connecting and disconnecting the tube for the elbow type.

∆Warning

The filter case of this suction filter is made of nylon. Contact with alcohol or similar chemicals may cause it to be damaged. Also, do not use the filter when these chemicals are present in the atmosphere.

Option Note 12)

Nil	Withou	Without option		
В	With bracket for single unit (Enclosed with the product for shipment without being assembled)	Bracket		
К	Screwdriver handling type vacuum break needle			

Note 12) When multiple options are selected, state them in alphabetical order.

