Large Size Vacuum Module: Vacuum Pump System

ZR Series

[Option]
Note) CE-compliant: For DC only.

How to Order

Note for model selection

Take function plates into consideration. (Refer to page 167.)

Components

Valve unit – Pressure switch for vacuum – Suction filter

ZR100 – K1 5 M Z ☐ – D ☐ ☐ ☐ – ☐ – ☐

Combination of supply switch valve and release valve (Refer to "Table (1)") | Solenoid valve rated voltage | Electrical entry | Light/Surge voltage suppressor | Manual override | Combination of switch/filter | Output specifications | Unit specifications | Lead wire specifications | Release flow rate adjusting needle/Bracket A or B

CE-compliant

Nil	—
Q	CE-compliant (DC only)

Combination of vacuum valve and release valve

Refer to "Table (1)" in page 165 for details.

Solenoid valve rated voltage

		CE-compliant
Nil Note)	Air operated	—
5	24 VDC	●
6	12 VDC	●
V	6 VDC	●
S	5 VDC	●
R	3 VDC	●
D1 Note)	100 VAC (50/60Hz)	—
D2 Note)	110 VAC (50/60Hz)	—

Note) Air operated, 100 VAC, and 110 VAC type are not CE-compliant.

Electrical entry

Nil	Air operated	
L	L plug connector type	Lead wire length 0.3 m
LN		Without lead wire
LO		Without connector
M	M plug connector type	Lead wire length 0.3 m
MN		Without lead wire
MO		Without connector
G	Grommet type	Lead wire length 0.3 m (Applicable to only DC)
H		Lead wire length 0.6 m (Applicable to only DC)

• Refer to "Table (2)" on page 165 for part no. of lead wire with connector.

Light/Surge voltage suppressor

Nil	None
Z	With light/surge voltage suppressor
S	With surge voltage suppressor

∗ DC voltage: Be much careful about polarity, because it is incorrect at DC (surge voltage suppressor), diode or switching element may be damaged.
AC voltage: S is not available for AC.

Manual override

Nil	Non-locking push type
B	Slotted locking type

Combination of switch/filter

D	Digital pressure switch for vacuum (ZSE30A) + Filter
E	Pressure switch for vacuum (ZSE2) + Filter
F	Filter

Release flow rate adjusting needle/Bracket A, B Note)

	Lock nut	Bracket A or B
Nil	×	●
L	●	●
M	●	×
N	×	×

●: Attached (Bracket A or B is shipped together.)
×: None
Note) A bracket is applicable only when the product is to be shipped on its own. When a manifold is to be shipped, a bracket is not included with any of the models.

Lead wire specifications

Digital pressure switch for vacuum (ZSE30A) specifications (D)

Nil	Without lead wire
L	Lead wire with connector (Length 2 m)

Refer to "Table (4)" on page 165 for part no. of lead wire with connector.

Pressure switch for vacuum (ZSE2) specifications (E)

Nil	Grommet/Lead wire (Length 0.6 m)
L	Grommet/Lead wire (Length 3 m)
C	Lead wire with connector (Length 0.6 m)
CL	Lead wire with connector (Length 3 m)
CN	With connector/Without lead wire

Refer to "Table (3)" on page 165 for part no. of lead wire with connector.

Filter specifications (F)

Nil	No setting

Unit specifications

Digital pressure switch for vacuum (ZSE30A) specifications (D)

Nil	With unit switching function
M	SI unit only
P	With unit switching function (Initial value psi)

Note 1) This is no longer sold for use in Japan due to the Weight and Measure Act (implemented October, 1999).
Note 2) Fixed unit: kPa

Pressure switch for vacuum (ZSE2) specifications (E)

Nil	No setting

Filter specifications (F)

Nil	No setting

Output specifications

Digital pressure switch for vacuum (ZSE30A) specifications (D)

N	NPN open collector 1 output
P	PNP open collector 1 output
A	NPN open collector 2 outputs
B	PNP open collector 2 outputs
C	NPN open collector 1 output + Analog voltage output
D	NPN open collector 1 output + Analog current output
E	PNP open collector 1 output + Analog voltage output
F	PNP open collector 1 output + Analog current output

Pressure switch for vacuum (ZSE2) specifications (E)

Nil	NPN open collector 1 output
55	PNP open collector 1 output

Filter specifications (F)

Nil	No setting