



To Use This Product Safely

Be sure to read this before use.

For general pneumatic components precautions, Intro Page 15 for details.

Individual Precautions: VSZM Series

Design / Selection

Warning

■For the self-holding type (VSZ-D...), the position of the switching valve (main valve) after stopping the pilot air supply is in a neutral state (including when first used after shipment). When re-supplying pilot air, be sure to apply a signal to the pilot valve or perform manual operation to reliably switch to the required state.

■When using the self-holding type (VSZ-D...) amidst vibration, install it so that the direction of vibration is perpendicular to the switching valve (main valve).

Caution

■When attaching/detaching the cartridge fitting and ejector top plug, remove any adhered matter from the seal part, then securely insert the stop pin. Perform this after carefully reading and understanding the precautions for use in the main text.

■For wiring D-sub connectors and flat cable connectors, carefully check the electrical circuit diagram in the handling precautions/instruction manual before wiring.

Precautions for Manifold Use

■As the number of manifold stations increases, satisfactory performance may not be obtained or trouble may occur due to the following reasons. Please consult your nearest sales office.

There is a limit to the number of stations for which performance can be ensured(number of simultaneously operable stations) depending on nozzle size, vacuum characteristics, manifold specifications, etc. Please inquire at your nearest sales office.

1. Degradation of vacuum performance due to insufficient supply air
 - Countermeasures -
 - ①Check supply air capacity, etc.
 - ②Keep piping as short as possible.
 - ③Use larger fitting sizes.
2. Degradation of vacuum performance due to insufficient exhaust port capacity, or interference of exhaust air with other stations
 - Cause: Cause: Insufficient capacity of silencer or piping leads to large exhaust resistance and performance degradation.
 - Countermeasures -
 - ①Centralized piping (exhaust) specification → Use thicker piping and make it as short as possible.
 - ②Avoid locations where the exhaust section faces a wall.
 - ③Reduce the number of simultaneously operating units.

For manifold type vacuum ejectors, when operating and non-operating ejectors coexist, exhaust air during vacuum generation may flow around to non-operating ejectors and be output from the vacuum port. This can cause problems, such as blowing away lightweight workpieces, so do not use under conditions where this could be an issue.

For precautions regarding mounting, installation, adjustment, operation, and maintenance, please refer to the CKD Equipment Product Site(<https://www.ckd.co.jp/kiki/en/>) → 'model No.' → [Instruction Manual](#).

Vacuum
Components

Ejector System

VSJ

VSH

VSU

VSB

VSC

VSG

VSK/
VSKM

VSJ/
VSJM

VSN/
VSNM

VSX/
VSXM

VSQ

VSZM

Ending

Vacuum
Components

Ejector System

VSJ

VSH

VSU

VSB

VSC

VSG

VSK/
VSKM

VSJ/
VSJM

VSN/
VSNM

VSX/
VSXM

VSQ

VSZM

Ending