



Safety Precautions

Be sure to read this section before use.

Refer to Intro Page 73 for general information of the cylinder, and to Intro Page 80 for general information of the cylinder switch.

Product-specific cautions: Small cylinder with suction pad MVC Series

Design/selection

⚠ WARNING

- If dropping an adsorbed workpiece when using a system with a vacuum ejector could be dangerous, provide mechanical locking for safety.

⚠ CAUTION

- Select a vacuum ejector, etc., that has an appropriate suction flow rate. If the suction flow rate is low, a vacuum failure will occur.
- When using the product with MVC cylinder buffer, the buffer stroke length must be within 4 mm. Use the product within 4 mm of the stroke length.

Mounting, installation and adjustment

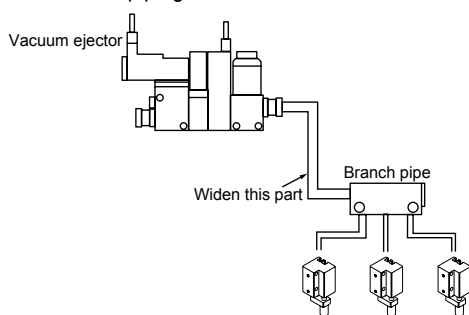
⚠ CAUTION

- Do not use a spiral hose. Especially when used at the vacuum side, malfunction due to the piping resistance will occur as below.

- (1) Delay of vacuum achievement time
- (2) Loss of vacuum at the suction end due to lowering of flow rate
- (3) Unstable operation of the vacuum switch

- Note the following points when connecting more than one MVC cylinder to one vacuum ejector.

- (1) If one suction pad leaks, vacuum will drop and cause suction failure of all pads.
- (2) Piping between the vacuum ejector and branch must be wider than piping between the branch and suction pad.



- Perform piping with a sufficient effective cross-sectional area. For the vacuum piping side, select a piping with sufficient effective cross-sectional area to allow the flow of the max. suction flow rate to the ejector.

- When using MVC with reed switch, the cylinder cannot be mounted on a magnetic substance (iron plate, etc.). This could lead to switch detection malfunction.

Use/maintenance

1. Common

⚠ CAUTION

- Do not disassemble the product.