



Pneumatic Components

# To Use This Product Safely

Be sure to read this before use.  
For general pneumatic components precautions,Intro 15 for details.

Individual Precautions: Suction Pad, Packaging Bag Type, VSP-□PB□Series

## Design / Selection



### Warning

■When mounting the Suction Pads holder for the partition on the actual device, refer to the following mounting nut tightening torque for the pad holder partition and tighten using an appropriate tool to prevent looseness.

●Pad holder partition mounting nut tightening torque

Nut Size	Tightening Torque
M12x1	12 to 14 N·m
M14x1	18 to 21 N·m
M16x1	18 to 21 N·m
M20x1	19 to 21 N·m
M22x1	19 to 21 N·m

■When installing the direct mounting Suction Pads holder on the actual machine, refer to the following tightening torque and tighten using an appropriate tool, and check that there are no looseness.

●Tightening Torque

Thread Size	Tightening Torque
M5x0.8	1 to 1.5 N·m

■The direct mounting Suction Pads holder has a gasket seal. When mounting to the actual machine, confirm that the gasket contact surface is smooth and free from scratches, dents, etc.

■Due to the pad characteristics, the theoretical suction force of the packaging bag type pads may exceed the strength of the pads themselves depending on the degree of vacuum. Use the safety factor at 1/16 or more when lifting horizontally and 1/25 or more when lifting vertically. Always perform tests on the actual machine before use.



### Caution

■Use the pressing allowable stroke as a guide for the packaging bag type and take care not to overcrush it. Excessive crushing may accelerate wear of the bellows part, cause cracks in the lip part, or lead to deformation due to strain, potentially causing suction failure.

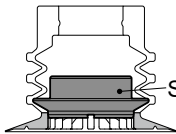
■Be sure to attach a suction prevention adapter to the packaging bag type pad. Using without the suction prevention adapter may deform the suction pad, potentially causing suction failure.

■When attaching or detaching the suction prevention adaptor to/from the vacuum pad for the packaging bag, the lip may be damaged if the lip is pulled too much.

■Since the suction prevention adapter with stainless steel mesh structure reduces the suction flow rate, perform suction test using the actual device.

■Check the clogging regularly for the suction prevention adapter with stainless steel mesh. Clogging can cause performance degradation or trouble. Clean or replace with a new one as necessary.

■Refer to the figure and install the suction prevention adapter in the appropriate position. Failure to mount in the correct position may cause suction failure.



Suction Prevention Adapter

■The spherical type of the suction prevention adapter is installed deeper than the pad's suction surface. Therefore, when suctioning a flat, rigid workpiece, the ribs on the pad surface can tilt in one direction, applying a rotational load. This rotational force can cause screws to loosen or the mounting to break. When suctioning flat, rigid workpieces, please use the flat type of the suction prevention adapter.

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