



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 Bellows Type VSP-øB□Series

## Design / Selection



### Warning

■ Use CKD's "Suction Pads bellows type" for the pad rubber for mounting the suction mark prevention resin attachment. If the shape of the suction mark prevention resin attachment and the pad rubber is not appropriate, the resin attachment may come off or excessive leakage may occur.

■ Status Because of the characteristics of the bellows pad material, the pads may stick to each other, so please check with the actual device.  
Also, tackiness may increase depending on the operating environment or pad wear. Review the pad shape, material, quantity, etc., as necessary.

■ Use the bellows so that it does not overcrush. 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.



### Caution

■ Compared to conventional rubber Suction Pads, the suction mark prevention resin attachment reduces suction marks by using resin for the lip portion; however, confirm with an actual device that the effects of suction marks on the workpieces are acceptable.

■ The suction mark prevention resin attachment has a greater impact on leakage from the suction surface than conventional rubber Suction Pads. Please note that it cannot be used for vacuum holding. Also, secure the vacuum flow rate as large as possible to minimize pressure drop due to leakage.

■ Clean the suction surface of the Suction Pads before use. Adhered substances may remain as suction marks. Furthermore, when cleaning, be careful not to scratch the suction surface, and do not use organic solvents.

■ Select a material that suits the working conditions for the pad rubber for mounting the suction mark prevention resin attachment.

■ Pad Rubber Material: Do not use the suction mark prevention resin attachment with suction pads made of ultra soft silicone or those with selected surface treatment options.

■ Pad O.D.: Pad frames of ø80 mm or greater have no conductivity. When using vacuum pads made of conductive material, take measures to dissipate electricity directly from the pad rubber.

■ When replacing the pad rubber with bellows pad diameter: ø80mm, be sure to check the configuration diagram in the catalog, use appropriate tools according to the recommended tightening torque below and tighten without looseness using the hexagonal part of the holder outer diameter.

●Recommended Tightening Torque	
Screw Size (mm)	Tightening Torque
M4x0.7	0.5 to 0.7 N·m
M5x0.8	