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, Suction Mark Prevention Type, VSP-□Q□Series

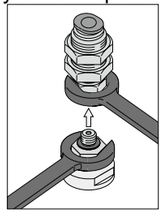
Design / Selection

Warning

■If the workpiece is at risk of falling off, be sure to provide a preventive measure for safety.
■When mounting the pad holder, be sure to fix it securely. Loosening can risk causing trouble.
■Malfunctions may occur due to leakage or clogging in the vacuum circuit as well as abrasion, cracking or deterioration of the pad, galling of the sliding part of the pad holder, or loose connections. Perform maintenance checks regularly.
■When performing transport with the pad, consider the acceleration, impact and wind pressure. The workpiece may detach during transport.

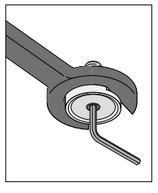
Caution

■Compared to conventional rubber suction pads, the suction mark prevention resin attachment for the lip portion reduces suction marks; however, confirm with an actual device the effects to the suction marks on the workpieces are acceptable.
■Keep the flow rate of the vacuum source as large as possible. Also, vacuum holding usage is not possible.
■Select a sensor suitable for the working conditions.
■The interior of the flexible holder for the suction mark prevention Suction Pads may wear depending on its structure and usage. When adopting for use in a clean environment, please confirm there is no impact from dust generation due to wear before use.
■This product has a 1 mm stroke on the flexible holder, allowing it to track even subtle workpiece inclinations. If a buffer function is necessary, use it in conjunction with a spring-type holder. Also, when using a spring-type holder, minimize the lateral force applied to the sliding parts. Holder wear may cause operational failure or dust generation.
■There is no rotation-stop structure between the suction mark prevention Suction Pads flexible holder and the resin pad. Please note that it is not suitable for rotational transport.
■Suction mark prevention Suction Pads generate more vacuum pressure leakage from the lip than rubber 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. When cleaning, be careful not to scratch the suction surface and do not use organic solvents.
■Special stainless steel is used for this product, but it is not intended to prevent rust. Rust may occur depending on the operating environment.
■When attaching the flexible holder to the actual device or the pad holder, tighten using an appropriate tool with reference to the following tightening torque and confirm that there is no looseness.



Thread Size	Tightening Torque
M4x0.7	0.7 to 0.8 N·m
M6x1	1.5 to 2.0 N·m

■The resin pad mounting screws on the flexible holder may loosen due to creep. Perform regular checks for looseness. If looseness occurs, refer to the tightening torque below and perform regular tightening or replace the suction pad part as appropriate.



Vacuum Pad Material	Thread Size	Tightening Torque
PEEK	M5x0.8	1.4 to 2.1 N·m
Conductive PEEK	M5x0.8	2.0 to 2.3 N·m
POM	M5x0.8	0.6 to 0.7 N·m

MEMO