



To Use This Product Safely

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

Design / Selection

Warning

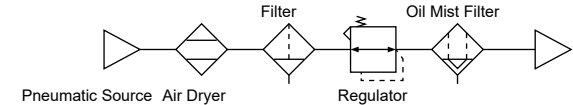
- If a falling workpiece could pose a hazard in systems that incorporate a precision suction plate, a mechanical drop prevention device must be installed for safety.
- Do not use in environments with corrosive or flammable gases, and never allow such gases to be suctioned.
- Consider the behavior at emergency stop.
If safety devices activate during emergency stop or system abnormality, causing the power source, machinery, etc., to stop, design so as not to cause injury to personnel or damage to workpieces/equipment/devices.
- Be sure to use the product within the specified range(5 to 40°C, 0.2 MPa or less). The multi-porous layer peels off when used at a pressure or temperature exceeding the specified range, Do not use this product. It may generate corrosive gases.
- Consider the behavior when restarting after emergency or abnormal stops.
Design so that restarting does not cause injury to personnel or damage to workpieces/equipment/devices.

Caution

- Confirm before use that the product will withstand the working environment.
Environments that cause functional impairment, such as dusty atmospheres, processes that generate dust, chemical atmospheres, chemicals, vibrations, humidity, water droplets, gas atmospheres, ozone-generating environments, etc.
- Use at an ambient humidity of 65% RH or less. Use outside the specification range may degrade suction surface accuracy.

■Suction conditions vary with the product, piping, work, and working environment. Select the vacuum generator after sufficiently considering the ultimate vacuum level, suction flow rate, and response time.

- Use dry, clean compressed air [Class 1.6.2] (solid particles 0.1 μm, pressure dew point 10°C, oil content 0.1 mg/m³) when purging with air.
(The grade is based on the compressed air quality grades according to ISO 8573-1: 2010.)
[Recommended Circuit]



- Do not use spiral hoses.
Piping resistance increases, causing problems such as delays in reaching vacuum and reduced suction force.
- Note the following when connecting more than one precise suction plate to one vacuum generator.
 - If one precise suction plate leaks, vacuum will drop and cause suction errors.
 - Piping between the vacuum generator and branch must be bigger than the piping between the branch and suction pad.
- When using this product in a cold climate, take the necessary measures to prevent freezing.
Foreign matter or oil in compressed air can clog the porous material, causing failure/malfunction.
- When there is a heat source in the surroundings, insulate the product.
The product temperature may rise above the ambient temperature due to radiant heat, so shield it with a cover, etc.
- Avoid using this product where vibration and impact are present.
Causes failure/malfunction.

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](#)