



To Use This Product Safely

Be sure to read this before use. For general information on cylinders, please check Intro 41, and for cylinder switches, please check P. 1512.

Individual Precautions: Rotary clamp cylinder, single guide type RCS2 Series

Design / Selection

1. Common

Warning

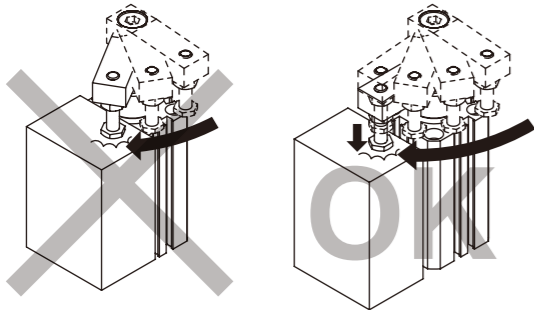
Precautions for operation

This cylinder's Piston Rod rotates 90° during operation. When rotating, ensure that the clamp lever included with the Piston Rod tip does not interfere with external peripheral equipment. Also, if the rotation of the clamp lever may pose a danger to humans, take safety measures such as installing a protective cover around the clamp lever.

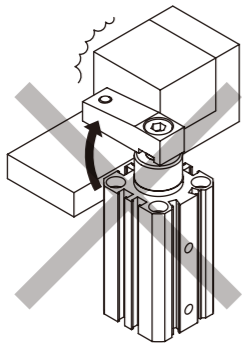
CAUTION

Using this product so as to apply rotation to the Piston Rod may lead to damage, faulty operation, or a reduction in non-rotating accuracy. Be sure to observe the following precautions.

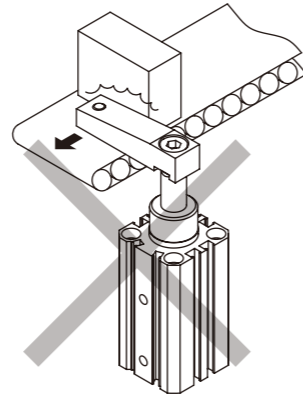
1. Do not clamp during the rotary stroke. Clamp at a position 3 mm or more before the stroke end within the clamp stroke range.



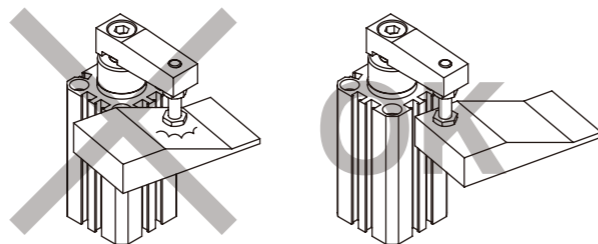
2. Do not clamp in the rotation direction.



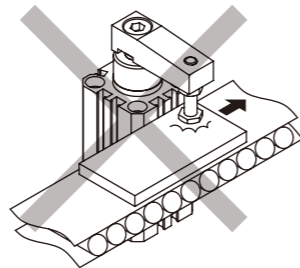
3. Do not use as a stopper.



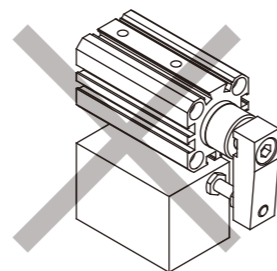
4. Do not clamp on inclined parts.



5. Ensure that the workpiece does not move due to external force during clamping.

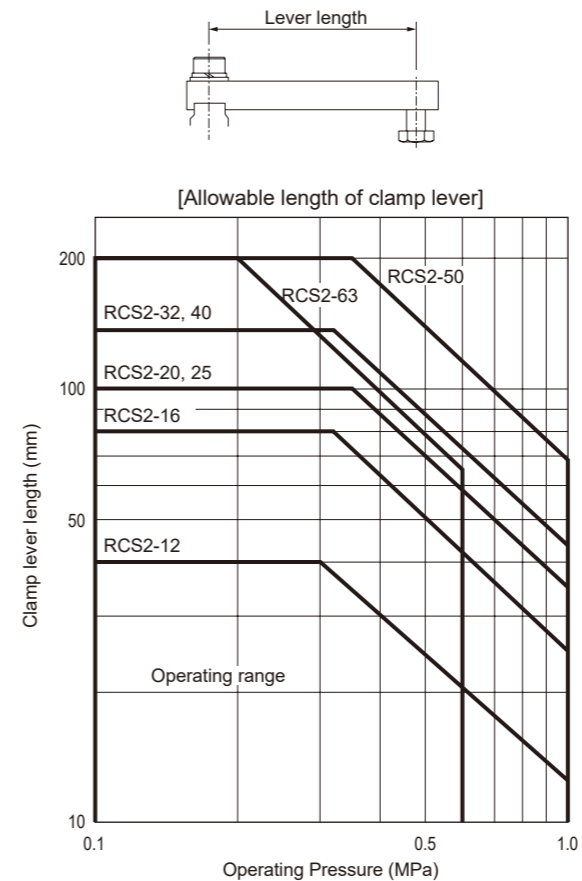


6. Do not use in horizontal installation.



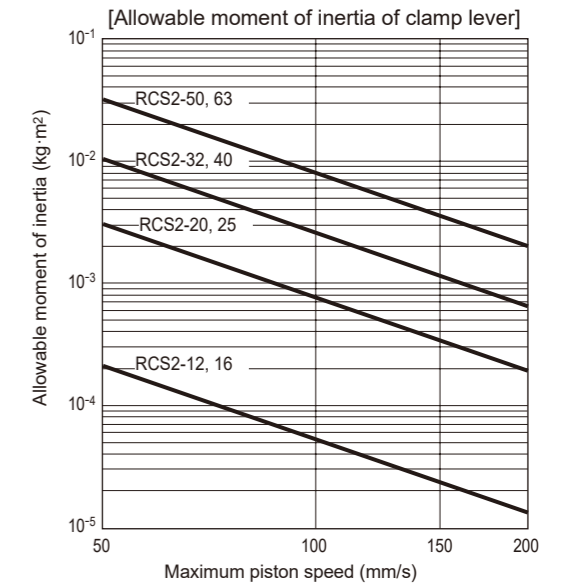
Clamp lever allowable length and Operating Pressure

The upper limit of the allowable length of the clamp lever varies depending on the Operating Pressure. Please set within the range shown in the diagram below.



Clamp lever allowable moment of inertia and piston speed

The upper limit of the allowable moment of inertia of the clamp lever varies depending on the piston speed. Please set within the range shown in the diagram below.



2. Weld spatter resistant type RCS2-G4

The durability of this cylinder is improved in comparison to standard cylinders when used in an atmosphere exposed to spatter. If used in an atmosphere other than sputter scattering, durability may be inferior to general type cylinders. Do not use in atmospheres other than sputter scattering.

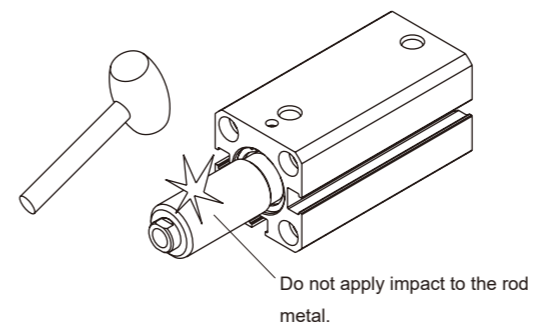
Anti-spatter adherence agent is volatile. If the adhesion inhibitor on the rod surface begins to dry, apply sputter adhesion inhibitor to the rod surface to replenish it.

During Use

CAUTION

Impact

Do not apply impact to the rod metal part. There is a risk of damage.



For precautions during mounting, installation, adjustment, use, and maintenance, please see "Precautions for Use" in this catalog and the CKD Components product site (<https://www.ckd.co.jp/kiki/en/>) → "Model No." → "Instruction Manual".