



Pneumatic components

Safety Precautions

Be sure to read this section before use.

Refer to Intro Page 73 for general information of the cylinder, and to Intro Page 80 for general information of the cylinder switch.

Product-specific cautions: Rotary clamp cylinder RCC2 Series

Design/selection

1. Common

⚠ WARNING

- In this cylinder, the piston rod strokes while rotating (90°) during its operation.

Make sure that the lever mounted to the piston rod end does not interfere with the exterior while rotating.

If the rotation of the lever attached to the piston rod end could cause bodily injury, be sure to provide safety measures by installing a protective cover, etc.

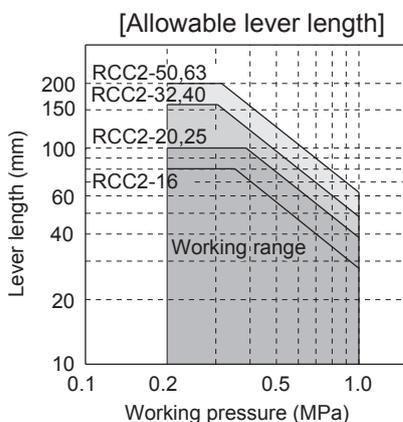
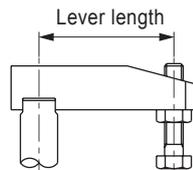
⚠ CAUTION

■ Clamp position

- Do not clamp during a rotation operation.
Adjust the clamping position to be approx. 3 mm or more before the stroke end position.
- Do not clamp the product so as to apply rotational force to the piston rod.
(a) Do not clamp the product in the rotational direction.
(b) Do not clamp the inclined portion.
(c) Do not use if the workpiece moves while clamping.

■ Lever length and working pressure

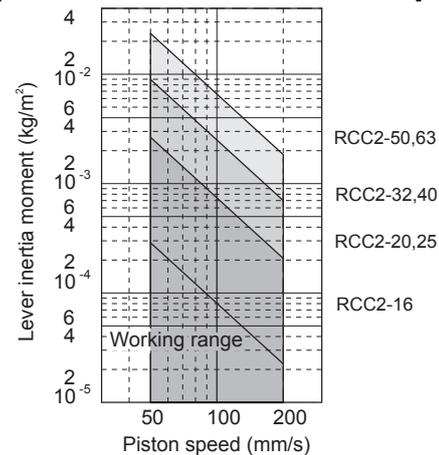
Set the lever length and working pressure within the range shown below.



■ Lever inertia moment and piston speed

Set the lever's moment of inertia and the piston speed within the range shown below.

[Allowable moment of inertia for lever]



Note: The allowable lever inertia moment graph is only compatible with vertical installation

■ Working environment

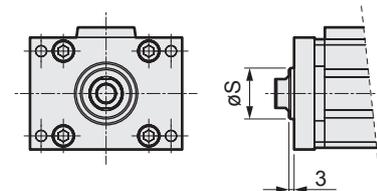
Coil scraper for welding environment is not built in for ø16.

2. Anti-spatter adherence RCC2-G4

- The durability of this cylinder is improved in comparison to standard cylinders when used in an atmosphere exposed to spatter. However, durability may be shorter than the standard cylinder when used other than in an atmosphere exposed to spatter. Do not use this cylinder in atmospheres other than those with spatter.

- Spatter adherence prevention agent is volatile. If the agent starts drying up on the rod surface, apply the agent to the rod surface again.

- When using the FA mounting (rod side flange), use caution with the holder protruding from the flange end.



Bore size	S
ø20	20
ø25	20
ø32	24
ø40	24
ø50	30
ø63	36

LCM
LCR
LCG
LCW
LCX
STM
STG
STS/STL
STR2
UCA2
ULK*
JSK/M2
JSG
JSC3/JSC4
USSD
UFCD
USC
UB
JSB3
LMB
LML
HCM
HCA
LBC
CAC4
UCAC2
CAC-N
UCAC-N
RCS2
RCC2
PCC
SHC
MCP
GLC
MFC
BBS
RRC
GRC
RV3*
NHS
HRL
LN
Hand
Chuk
MechHnd/Chuk
ShkAbs
FJ
FK
SpdContr
Ending

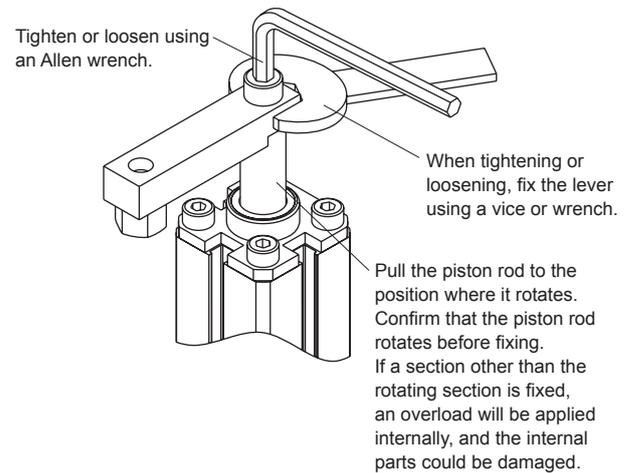
Mounting, installation and adjustment

⚠ WARNING

- In this cylinder, the piston rod strokes while rotating (90°) during its operation. As the lever mounted to the piston rod end rotates, do not insert your hands or enter the drive zone during operation.

⚠ CAUTION

- Mounting and removing the lever
Use the following procedures to attach and remove the lever. (Applying excessive rotational force to the piston rod may cause damage to the internal parts.)



- Piston speed
Adjust the speed within the range given in the lever moment of inertia and piston speed graphs.

LCM
LCR
LCG
LCW
LCX
STM
STG
STS/STL
STR2
UCA2
ULK*
JSK/M2
JSG
JSC3/JSC4
USSD
UFCD
USC
UB
JSB3
LMB
LML
HCM
HCA
LBC
CAC4
UCAC2
CAC-N
UCAC-N
RCS2
RCC2
PCC
SHC
MCP
GLC
MFC
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