



CP96 Series

Specific Product Precautions

Be sure to read this before handling the products. Refer to page 219 for safety instructions. For actuator and auto switch precautions, refer to the “Handling Precautions for SMC Products” and the “Operation Manual” on the SMC website: <http://www.smcworld.com>

Adjustment

Warning

1. Do not open the cushion valve more than the allowable number of rotations (following table).

Although the cushion valve is caulked as a retaining mechanism, do not open the cushion valve more than the allowable number of rotations. If air is supplied and operation started without confirming the above condition, the cushion valve may be ejected from the cover.

The allowable number of rotations refers to the number of rotations until the restrictor of the cushion valve is completely opened from the completely closed state.

2. Keep the screwing torque and the unscrewing torque of the cushion valve to the allowable torque or below (following table).

If a screwing torque or unscrewing torque beyond the allowable torque is applied, the valve will be damaged when the valve is closed completely or exceeds the retaining mechanism when the valve is opened completely, which will dislocate the engagement of the screw and eject the valve.

Bore size [mm]	Cushion valve width across flats	Hexagon wrench	Allowable number of rotations	Allowable torque [N·m]
32, 40	2	JIS 4648 Hexagon wrench key 2	4	0.02
50, 63	2	JIS 4648 Hexagon wrench key 2	4.5	0.02
80, 100	3	JIS 4648 Hexagon wrench key 3	5.5	0.06
125	4	JIS 4648 Hexagon wrench key 4	5	0.10

3. Be certain to activate the air cushion at the stroke end.

When the air cushion is inactivated, if the allowable kinetic energy exceeds the value on page 131, the piston rod assembly or the tie-rod may be damaged. Set the air cushion to valid when operating the cylinder.

Caution

1. When mounting a foot, flange, single clevis, or double clevis mounting bracket to the cylinder, use a hexagon wrench of the size stated in the table below.

Bore size [mm]	Width across flats	Tightening torque [N·m]
32, 40	4	4.8
50, 63	5	10.4
80, 100	6	18.2
125	10	30.1

2. To mount the adjustable position trunnion mounting bracket to a cylinder, refer to the assembly instructions in the operation manual on the SMC website.

C85

C85W

C85-S/T

C85K

C85K-S/T

C85R

C75

C75W

C75-S/T

C75K

C75K-S/T

C75R

CP96

CP96K

C96

C96K

C96Y

C55

Auto Switch

Made to Order

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