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SM-0648

INSTRUCTION MANUAL
FOR

MODEL C M V - ϕ 20

Please read this operation manual carefully before using this product, particularly the section describing safety.

Retain this operation manual with the product for further consultation whenever necessary.

 CKD Corporation

For Safety Use

To use this product safely, basic knowledge of pneumatic equipment, including materials, piping, electrical system and mechanism, is required (to the level pursuant to JIS B 8370 Pneumatic System Rules).

We do not bear any responsibility for accidents caused by any person without such knowledge or arising from improper operation.

Our customers use this product for a very wide range of applications, and we cannot keep track of all of them. Depending on operating conditions, the product may fail to operate to maximum performance, or cause an accident. Thus, before placing an order, examine whether the product meets your application, requirements, and how to use it.

This product incorporates many functions and mechanisms to ensure safety. However, improper operation could result in an accident. To prevent such accidents, read this operation manual carefully for proper operation.

Observe the cautions on handling described in this manual, as well as the following instructions :

Precautions

- Before performing an overhaul inspection on the actuator, deactivate residual pressure completely.
- While the actuator is operating, do not step into or place hands in the driving mechanism.
- To prevent an electric shock, do not touch the electric wiring connections (exposed live parts) of the actuator equipped with a solenoid valve or switch.

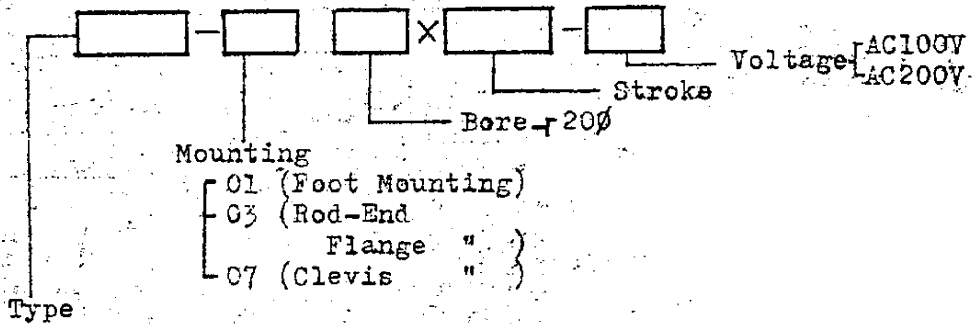
Perform an overhaul inspection with the power off. Also, do not touch these live parts with wet hands.

INSTRUCTION MANUAL
FOR SELCOM-CYLINDER TYPE "CMV"
(CMV-20)

This "CMV" Midget-Cylinder consists of Single-Action Air Cylinder (spring return) and 3 ports Solenoid Valve.

SPECIFICATION

*Symbol



- *Pressure..... - 7kg/cm²G
- *Pressure Limit....., 10kg/cm²G
- *Voltage.....AC100V or 200V
- *Allowable Ambient Temperature..... On Cylinder : to 60°C
On Coil : to 40°C
- *Temperature Rising of Coilto 65°C (Cont. duty)
- *Coil Insulation.....Class "A" (JISC4003)
- *Power Consumption.....200.6VA (60Hz)
- *Allowable Voltage Fluctuation.....± 10%
- *Connection Size..... PT 1/8

INSTRUCTION

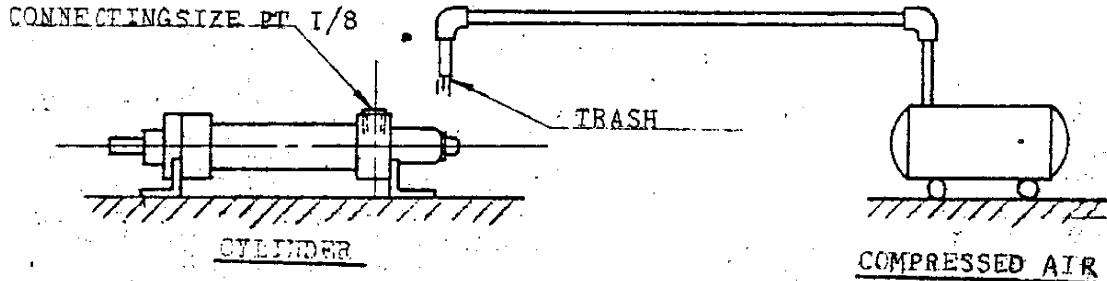
Arrange the pipe line to supply the compressed-air to the Cylinder. Piston Rod is backwarded when the Solenoid is energized, and forwarded when disenergized by a Internal-Spring. Piston Stroke is available with Rod-Metal.

ACCESSORIES

Provide the AIR FILTER, REGULATOR and LUBRICATOR on the pipe line to get smooth operation and long life. The recommendable position of LUBRICATOR is within 1m far from AIR-INLET of Solenoid Valve.

PIPING

Blow off the trash, chip of seal-tape, rust and etc. inside of the pipe with 5kg/cm compressed-air as shown as FIG.1. And connect the pipe to the Cylinder after the trash and etc. would be blew off.



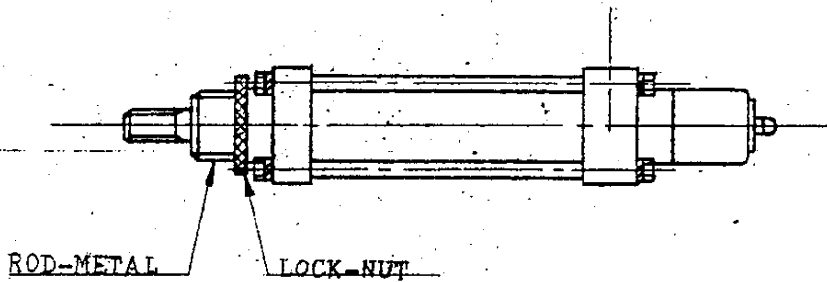
INSTALLATION

Install exactly by Nuts and Spring-washers.

STROKE ADJUSTMENT

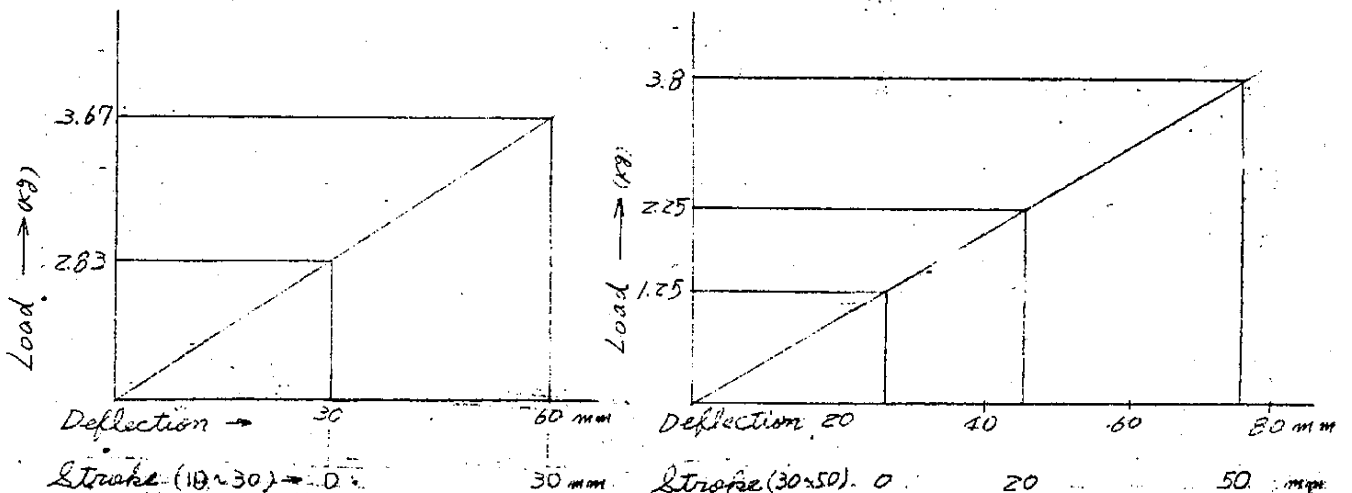
Piston stroke is adjusted with LOCK-NUT and ROD-METAL by step as follows.

- 1) Unfasten the Lock-Nut.
- 2) It's getting short stroke to turn the Rod-Metal clockwise, and long stroke to turn counterclockwise.
- 3) Fasten the Lock-Nut at the suitable stroke.



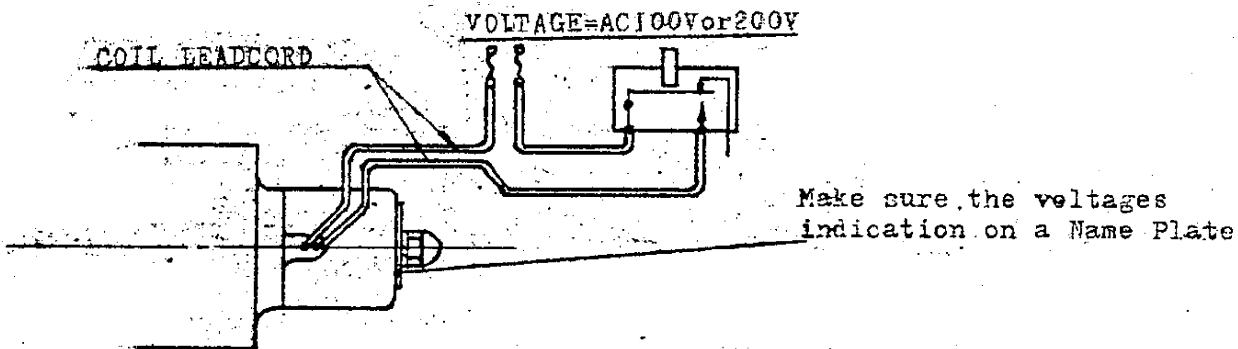
PISTON SPRING

Refer the following Spring Characteristics if any loads for which Piston-Rod return since the Piston-Rod is returned by Spring.



WIRING

Wire for this Midget Cylinder as shown as follows.



Energized to piston backward
Deenergized to piston forward