



To Use This Product Safely

Be sure to read this before use. For general cylinder information, see Intro 41, and for Cylinder Switches, see P. 1512.

Individual Precautions: New Handling System

Design / Selection

1. About lubrication

CAUTION

■ Cylinders

Can be used without lubrication, but if lubricating, please use turbine oil type 1 ISO VG32. Using other lubricating oils will cause abnormalities in the packing, resulting in malfunction. If lubricating, be careful not to run out of oil. If oil runs out, operation will become unstable.

■ LM guide

Lubricate from the grease nipple every 100 km of travel distance. Use either lithium-based grease (JIS No. 2) or urea-based grease (JIS No. 2) for lubrication.



2. Service life

CAUTION

■ The life of the unit is greatly affected by the life of pneumatic components.

Since general pneumatic equipment is used, the operating life is Approx. 3 to 5 million cycles, or a travel distance of Approx. 1,000 km. (Since usage conditions, operating environment, etc. greatly affect the service life, the above values are not guaranteed values)

During Use

1. Mounting Posture

Warning

■ Units other than HRL-1(L) are all horizontally mounted only. Do not use in an inverted mounting position as it will cause damage.

Also, for vertical mounting (Z-axis direction), select the payload based on the internal cylinder thrust.



Special

MVC

STK

MCP

GLC

BBS

NHS

HR

LN

Cylinders Switch

Ending

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For precautions during mounting, installation, adjustment, use, and maintenance, refer to "During Use" in this catalog and the CKD Components Product website (<https://www.ckd.co.jp/kiki/en/>) -> "Model No." -> [Instruction Manual](#).