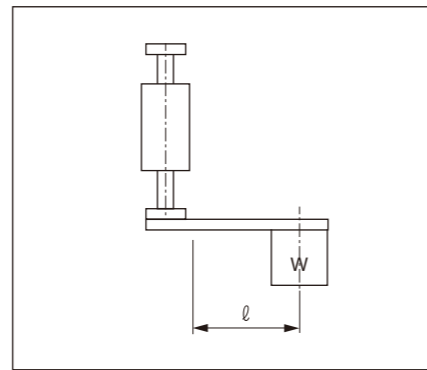
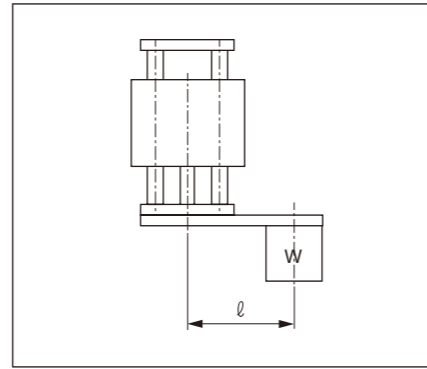
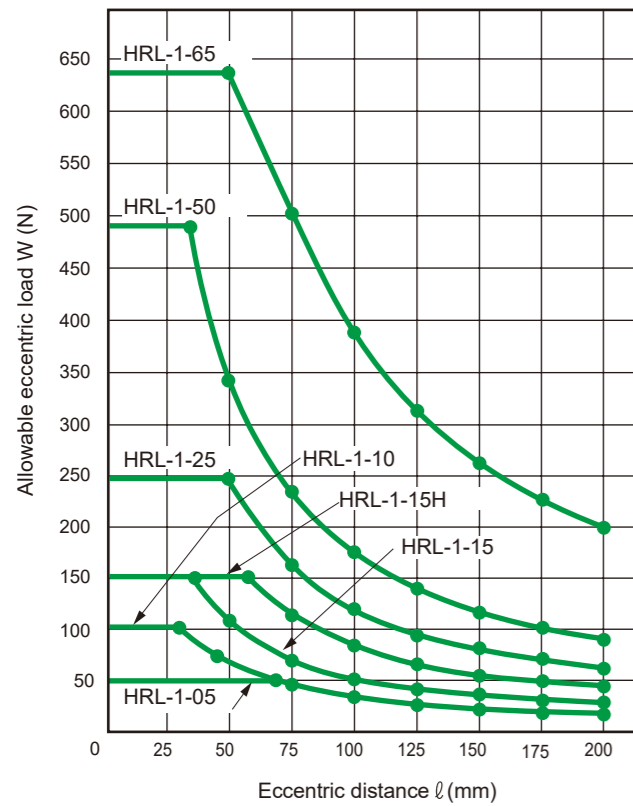
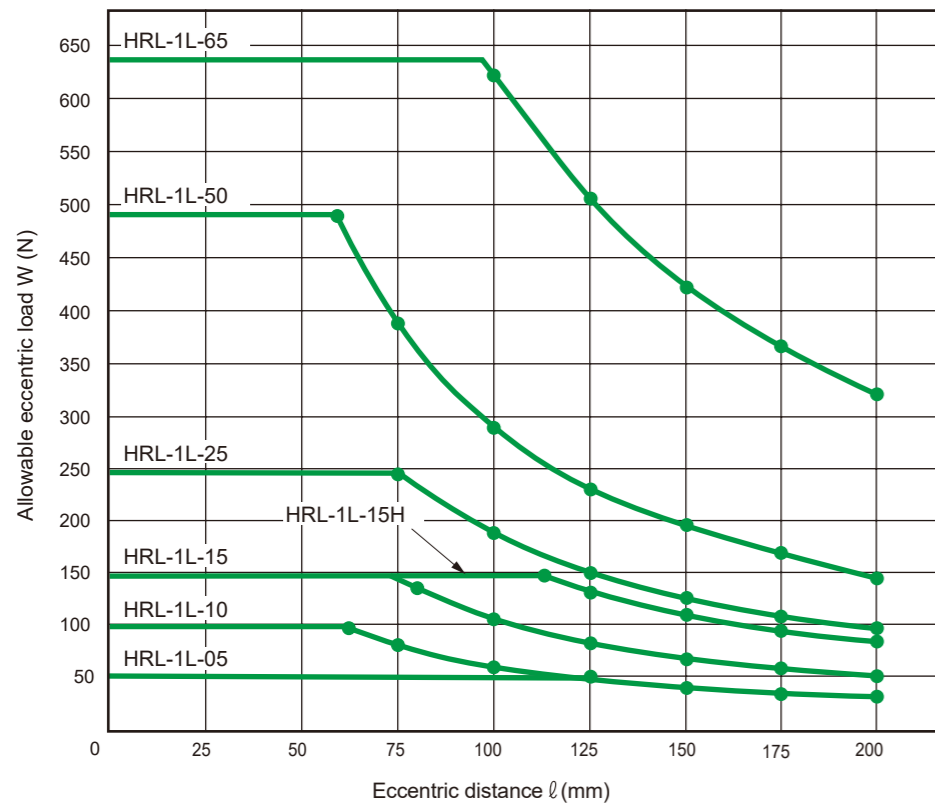


## Allowable eccentric load

### ● HRL-1 (Basic Type)



### HRL-1L (Long Body Type)



Pneumatic Equipment

## 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: Hybrid Robot

#### 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.

##### 2. Service life

###### CAUTION

The service life of the unit is greatly affected by the service life of each pneumatic device. Since general pneumatic equipment is used, the number of operations is about 3 to 5 million times, and the travel distance is about 1,000 km. (Since usage conditions, operating environment, etc. greatly affect the service life, the above values are not guaranteed values)

For precautions regarding mounting, installation, adjustment, operation, and maintenance, please refer to the CKD Equipment Product Site (<https://www.ckd.co.jp/kiki/en/>) → 'model No.' → [Instruction Manual].