Twice the durability

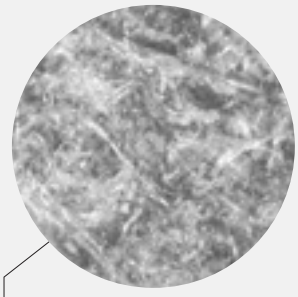
Magnet rodless cylinder MRL2 Series

The newly adopted lubrication mechanism has significantly improved the service life and operational stability of the new magnet rodless cylinder.
ø25 and ø32 are also available.

Dramatically improved performance with the lube keeping structure!

A fiber assemblage (lube keeping structure) soaked with grease is mounted on the sliding portions of the piston and slider. This enables stable lubrication to prevent wear long term. A significant improvement of service life (more than 2-fold compared to the previous models) and stabilization of operation have been realized.

● Lube keeping structure sectional area (180x)



Features of lube keeping structure

Lubrication supplying/absorbing function

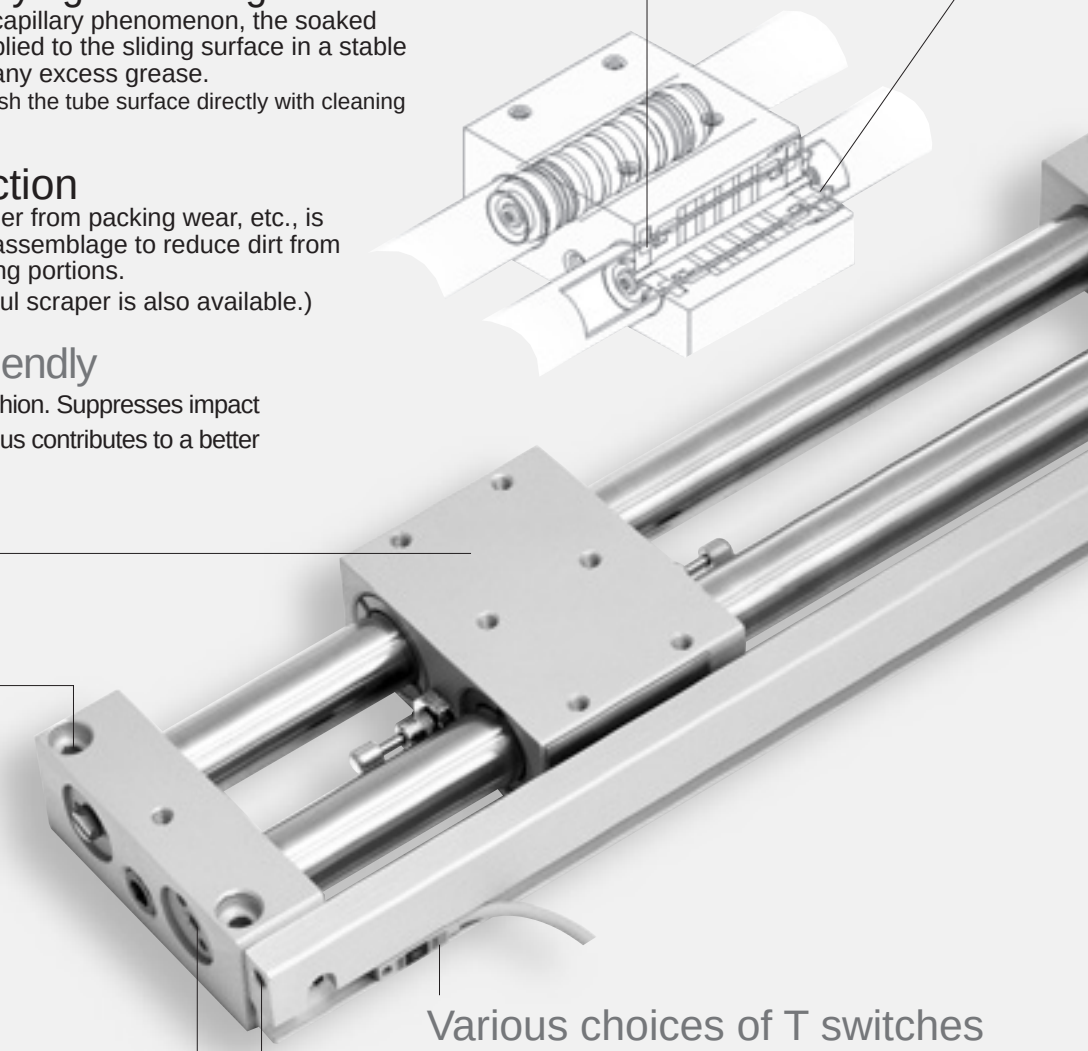
Due to the effects of the capillary phenomenon, the soaked grease can be evenly applied to the sliding surface in a stable manner while absorbing any excess grease.
Note) Use the scraper to wash the tube surface directly with cleaning liquid.

Dust wiper function

As well as dust, the powder from packing wear, etc., is captured within the fiber assemblage to reduce dirt from accumulating on the sliding portions.
(The conventional powerful scraper is also available.)

Environmentally friendly

Set with optional rubber-air cushion. Suppresses impact sound at the stroke end, and thus contributes to a better factory environment.



Thin slider

Flat design with a thin slider

Direct mount

(Top or bottom)

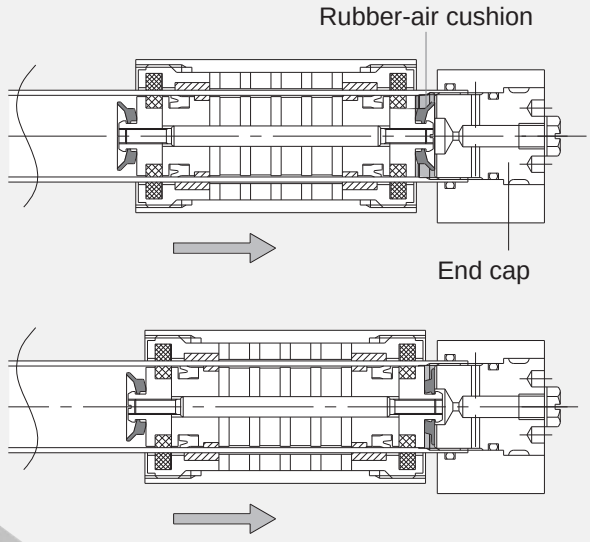
Various choices of T switches

Single-surface common piping is available (option)

Simplified guide (2-piston)

MRL2-W Series

● Rubber-air cushion mechanism



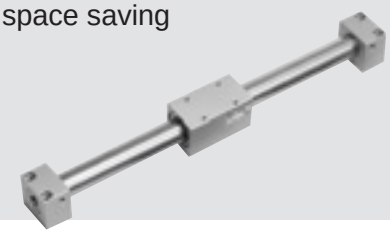
An airtight space is created in the ▭ area when the piston operates and the rubber-air cushion and end cap make contact. Air in the airtight area is further compressed, absorbing energy as the piston operates. At the end of the stroke, energy generated by compression distortion of the air cushion is also added.

ø25 and ø32 bore sizes are now available.

Basic

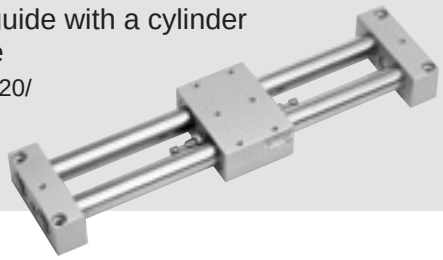
MRL2Series

Basic model of space saving
ø6/ø10/ø16/ø20/
ø25/ø32



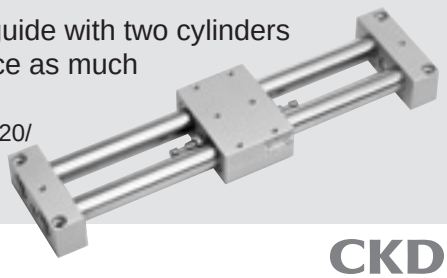
Simplified guide
(1-piston)
MRL2-GSeries

Simplified guide with a cylinder and a guide
ø6/ø10/ø16/ø20/
ø25/ø32



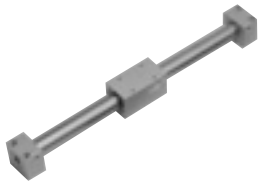
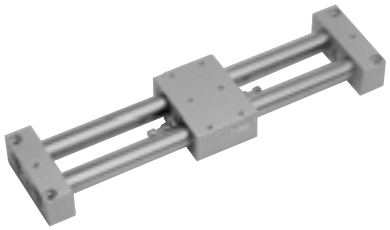
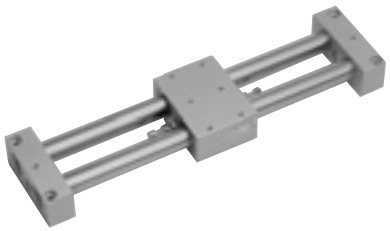
Simplified guide
(2-piston)
MRL2-WSeries

Simplified guide with two cylinders provide twice as much high thrust
ø6/ø10/ø16/ø20/
ø25/ø32



MRL2/MRL2-G/MRL2-W Series

● Points regarding selection guide

	Points regarding selection guide	Recommended model No.	
Basic	· When combining use of a guide system apart from the cylinder. · When there are space limitations. * Use together with a guide.	**MRL2** ø6, ø10, ø16, ø20, ø25, ø32 	
Simplified guide	· When securing the course of the slider. · When using for general transportation. · When the stacked load is large. · When stroke adjustment is required. · When absorbing the impact at the end of the stroke with a shock absorber.	**MRL2-G** (Simplified guide 1-piston) ø6, ø10, ø16, ø20, ø25, ø32 	
	· When securing the course of the slider. · When using for general transportation. · When the stacked load is large and a double thrust is required. · When stroke adjustment is required. · When absorbing the impact at the end of the stroke with a shock absorber.	**MRL2-W** (Simplified guide 2-piston) ø6, ø10, ø16, ø20, ø25, ø32 	

	Features		Page
	· Lube keeping structure is used to realize a long service life. · By selecting the rubber-air cushion, it is possible to reduce collision noise level and collision acceleration at the end of the stroke. · Cylinder direct mounting is possible.	Specifications	1740
		How to order	1742
		Internal structure and parts list	1744
		Dimensions	1746
		Switch mounting position dimensions	1754
		Selection guide	1755
	· With the twin tube of the MRL2 series, it is no longer necessary to separately install a guide system. · Space saving with a thin design and a low slide table height. · The impact at the end of the stroke will be absorbed with the type equipped with a shock absorber. · Single surface piping is possible with the common piping with switch.	Specifications	1740
		How to order	1742
		Internal structure and parts list	1748
		Dimensions	1752
		Switch mounting position dimensions	1754
		Selection guide	1755
	· With the MRL2 Series twin tube, it is no longer necessary to separately install a guide system. · With the twin piston, the generated thrust is twice that of a single piston model. · Space saving with a thin design and a low slide table height. · The impact at the end of the stroke will be absorbed with the type equipped with a shock absorber. · Single surface piping is possible with the common piping with switch.	Specifications	1740
		How to order	1742
		Internal structure and parts list	1750
		Dimensions	1752
		Switch mounting position dimensions	1754
		Selection guide	1755