SMC
Automation - Controls - Process

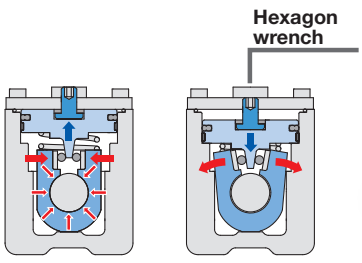
Cylinder with Lock

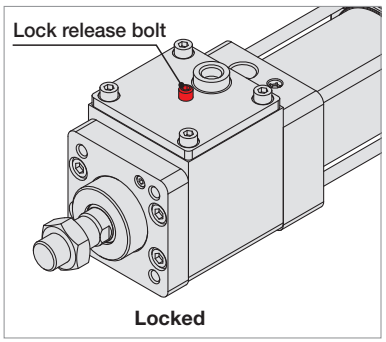
ø32, ø40, ø50, ø63, ø80, ø100

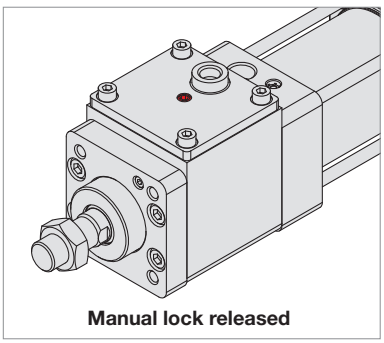
Ideal for intermediate stops, emergency stops, and drop prevention

RoHS

- High stopping accuracy within **+/-1mm**
- Holding force up to **6080 N**
- Built-in manual lock release holding mechanism
- Separate lock unit construction for **easy maintenace**
- Lock unit can be ordered for a wide variety of actuators







Lock Unit

Applicable for rod sizes ø12 to ø30

Pivot Bracket

Double clevis

Center trunnion

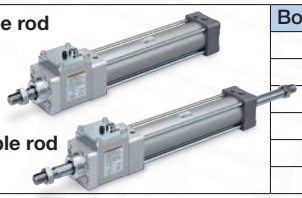
Rod End Bracket

V: Single knuckle joint

W: Double knuckle joint

Series Variations

Cylinder with Lock



Bore size [mm]	Lock holding force [N]	Cushion	Rod boot	Made to order
32	630 to 6080	• Air cushion • Rubber bumper	• Nylon tarpaulin • Heat-resistant tarpaulin	• Change of rod end shape (Single rod only) • With coil scraper • Made of stainless steel • Dimensionally compatible with the MNB series (Air cushion only)
40				
50				
63				
80				
100				

MWB Series

How to Order

	MWB	B	40		–	50			–			–							
With auto switch	MDWB	B	40		–	50			–			–			M9BW		–		

With auto switch
(Built-in magnet)

Mounting

B	Basic
L	Axial foot
F	Rod flange
G	Head flange
C	Single clevis
D	Double clevis
T	Center trunnion

* Mounting brackets other than center trunnion type are shipped together.

Mounting (Pivot Bracket

NiL	No Bracket
N	Pivot bracket is shipped together with the product, but not assembled.

* Applicable onlu to D (Double clevis) and T (Center trunnion) mounting types.

Bore size

32	32 mm
40	40 mm
50	50 mm
63	63 mm
80	80 mm
100	100 mm

Port thread type

Nil	Rc
TN	NPT
TF	G

Cylinder stroke [mm]
Refer to page 8 for standard strokes.

Suffix (Rod boot)

Nil	None
J	Nylon tarpaulin
K	Heat-resistant tarpaulin

Pivot bracket

Nil	No bracket
N	Pivot bracket

* Only for D and T mounting types.
* Pivot bracket is shipped together with the product.
* For details, refer to page 15.

Suffix (Cushion)

Nil	Air cushion
N*1	Rubber bumper

*1 Since the bumpers are attached to the both sides of the piston for rubber bumper type, the overall length is longer than the cylinder with air cushion as follows: ø32, ø40: +6 mm, ø50, ø63: +8 mm, ø80, ø100: +10 mm.

Auto switch

Nil	Without auto switch

* For applicable auto switches, refer to the table below.

Number of auto switches

Nil	2
S	1
3	3
n	n

Rod end bracket

Nil	No bracket
V	Single knuckle joint
W	Double knuckle joint

* A knuckle joint pin is not provided with the single knuckle joint.
* Rod end bracket is shipped together with the product.
* Excludes made to order -XA□.

Made to order
For details, refer to the full catalog page 8.

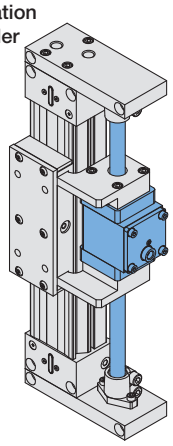
Lock Unit

A safety mechanism can be designed if required. It can also be combined with a wide variety of actuators.

- Prevents the workpiece from falling
- Retains the workpiece position even when the air supply is shut off due to power failure, etc.

Application Example

Example of combination with a rodless cylinder



Lock unit model	MWB□32-UT	MWB□40-UT	MWB□50-UT	MWB□63-UT	MWB□80-UT	MWB□100-UT
Applicable rod size [mm]*1	ø12*	ø16*	ø20*	ø20*	ø25*	ø30*
Bore size of combinable cylinder [mm]	ø32	ø40	ø50	ø63	ø80	ø100
Lock holding force*2 (Max. static load) [N]	630	980	1,570	2,450	3,920	6,080
Made to order common specifications	Change of rod end shape (-XA), With coil scraper (-XC35), Made of stainless steel (-XC68)					

*1 The applicable rod size affects the holding force, so use a rod with the rod size tolerance shown in the table above.
*2 The holding force (max. static load) shows the maximum capability and does not show the normal holding capability. Be sure to select a cylinder using the method described in Model Selection (page 5).
* When inserting the rod into the lock unit, be sure to avoid damaging the seal and inner periphery of the product. For details, refer to page 44.