

# Mechanical Joint Rodless Cylinder (With spring lock)

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## MY1B40G-R8611-550

**Application:** Use for lines requiring intermediate stops,  
emergency stops and drop prevention

**Feature 1:** Spring lock mechanism added to mechanical joint  
rodless cylinder

- The cleat or wedge effect from the taper ring and steel balls makes for increased power.
- Same holding force in extending and retracting directions.  
(Possible to lock at both ends)

**Feature 2:** Standard manual override lock release

- Even in the instance of an air supply cut or discharge, the lock can be easily released with the simple use of a wrench.
- When manual control is released, the lock is engaged again thanks to its fail-safe construction.

## Specifications

### Cylinder specification

Bore size	Ø40
Stroke	550mm
Stroke length tolerance	$^{+1.8}_0$ mm
Rod end thread tolerance	JIS class 2
Maximum operating pressure	0.8MPa
Proof pressure	1.2MPa
Piston speed	100 to 1000mm/s
Ambient and fluid temperature	5 to 60°C
Cushion	Air cushion
Lubrication	Not required (Non-lub)

### Auto switch specifications

Model No.	D-Z73L	
Power supply voltage	24V DC	100V AC
Load current range	5 to 40mA	5 to 20mA
Internal voltage drop	2.4V or less	
Operating time	1.2ms	
Shock resistance	300m/s <sup>2</sup>	
Ambient temperature	5 to 60°C	

Note 1: Refer to our Best Pneumatics catalog for more detailed auto switch specifications.

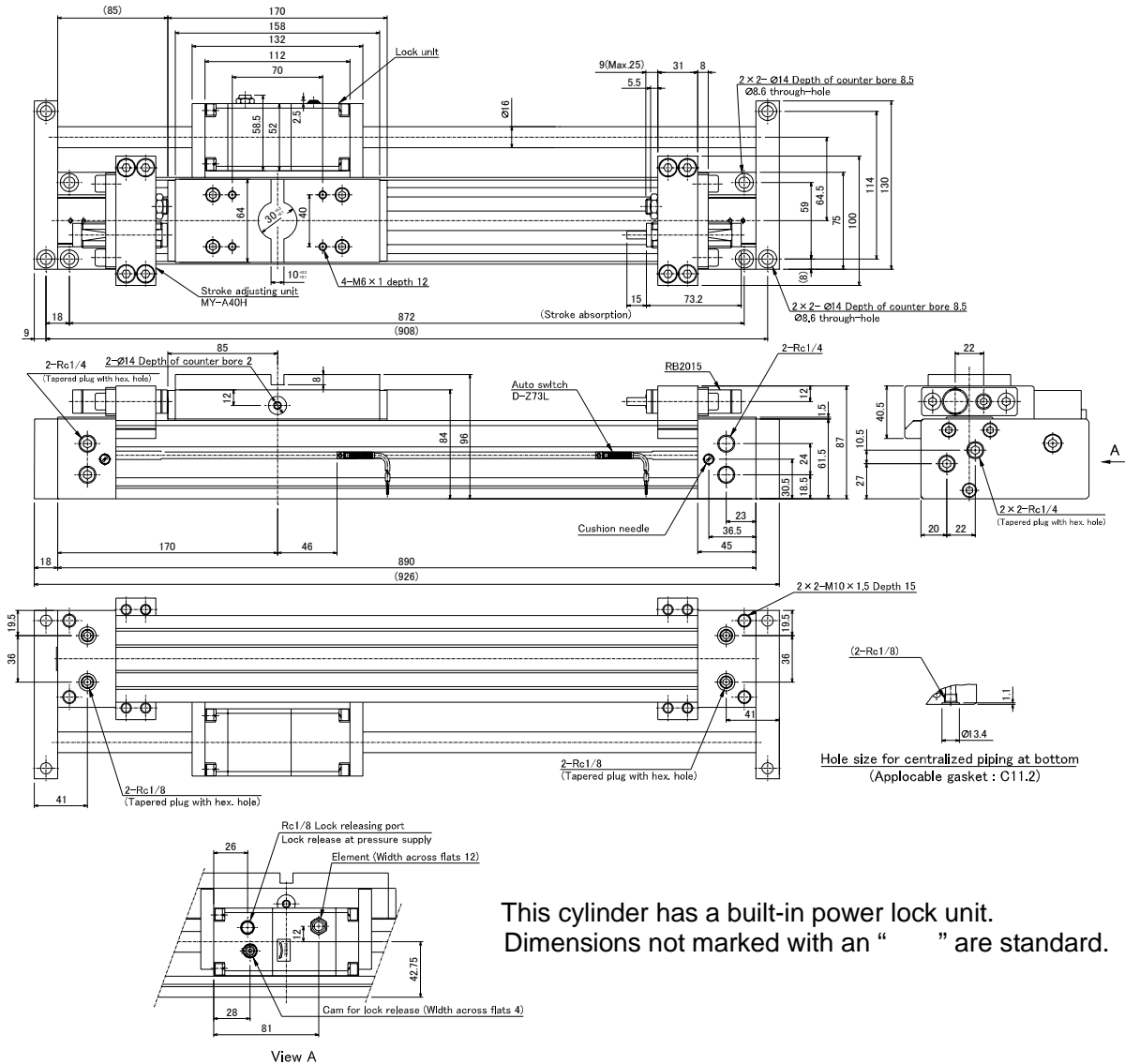
### Lock specifications

Lock type	Spring lock (Exhaust lock)
Holding force (Maximum static load)	860N
Lock released pressure	0.25MPa or more
Lock starting pressure	0.20MPa or less
Operating pressure range	0.25 to 1.0MPa
Locking direction	Both sides

### Shock Absorber specifications

Model No.	RB2015	
Maximum energy absorption	58.8J	
Impact speed	1.5m/s	
Maximum operation cycle	25cycles/min	
Ambient temperature range	5 to 60°C	
Stroke absorption	15mm	
Spring force	Extended	8.34N
	Compressed	20.5N
Weight	150g	

# Dimensions



This cylinder has a built-in power lock unit.  
Dimensions not marked with an “ ” are standard.

## Manual Lock Release Method

- Using a wrench, turn the lock release cam counter-clockwise, then push back the release piston to release the lock.

When manual control is released from the cam, the lever returns to its original position and the lock is once again engaged. If lock release must be maintained, be sure to hold the cam in this position.

## Precautions for Lock Unit

1. Do not rotate the lock release cam (look for the arrow “ ” on top of the release cam) past the “FREE” position. The lock release cam may be damaged if it is turned too much, i.e. beyond this point.
2. When a lock release condition is required for a long period during equipment mounting, supply air pressure of 0.25 MPa or more to the lock release port.

## Caution

To ensure the safest possible operation of this product, please be sure to read thoroughly the “Safety Instructions” in our “Best Pneumatics” general catalog before use. Please keep in mind that the wrong handling or operation of the lock can result in damage to equipment and other possible problems. Therefore, be sure to read the Warnings and Caution statements regarding locks in the Series CNA section of our Best Pneumatics catalogue, and to operate the lock accordingly.