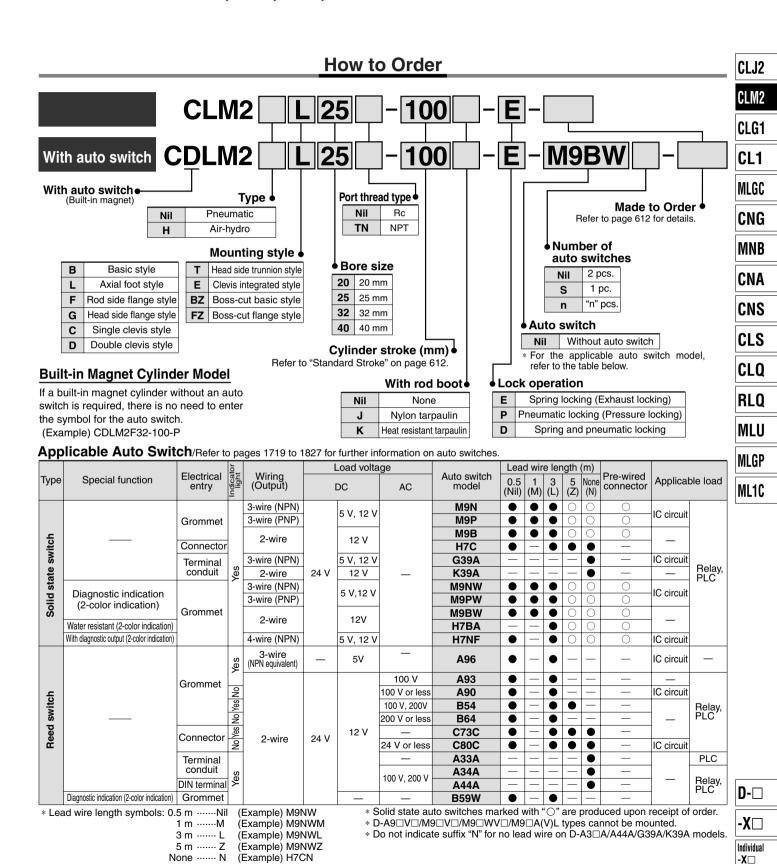
Fine Lock Cylinder Double Acting, Single Rod Series CLM2

ø20, ø25, ø32, ø40



* Since there are other applicable auto switches than listed above, refer to page 624 for details.

* For details about auto switches with pre-wired connector, refer to pages 1784 and 1785.

^{*} D-A9 M9 Mauto switches are shipped together (not assembled). (Only auto switch mounting brackets are assembled at the time of shipment.)

Series CLM2

Provided with a compact lock mechanism, it is suitable for intermediate stop, emergency stop, and drop prevention.

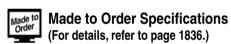
Locking in both directions

The piston rod can be locked in either direction of its cylinder stroke.

Maximum piston speed: 500 mm/s

It can be used at 50 to 500 mm/s provided that it is within the allowable kinetic energy range.





Symbol	Specifications
— XA□	Change of rod end shape

Rod Boot Material

Symbol	Rod boot material	Maximum ambient temperature
J	Nylon tarpaulin	70°C
K	Heat resistant tarpaulin	110°C *

^{*} Maximum ambient temperature for the rod boot itself.

Refer to pages 621 to 624 for cylinders with auto switches.

- Minimum auto switch mounting stroke
- Proper auto switch mounting position (detection at stroke end) and mounting height
- Operating range
- Switch mounting bracket: Part no.

Specifications

Bore size (mm)	20	25	32	40
Action	Double acting, Single rod			
Туре	Air cylinder			
Lock operation	Spring locking (Exhaust locking) Pneumatic locking (Pressurized locking), Spring and pneumatic locking			
Fluid	Air			
Proof pressure	1.5 MPa			
Maximum operating pressure	1.0 MPa			
Minimum operating pressure	0.08 MPa			
Ambient and fluid temperature	Without auto switch: -10 to 70°C (No freezing) With auto switch: -10 to 60°C (No freezing)			
Lubrication	Not required (Non-lube)			
Piston speed	50 to 500 mm/s *			
Cushion	Rubber bumper (Standard equipment)			
Stroke length tolerance	+1.4 0			
Piping/Screw-in type		Rc 1/8		Rc 1/4
Mounting	Basic style, Axial foot style, Rod side flange style, Head side flange style, Single clevis style, Double clevis style, Head side trunnion style, Clevis integrated style, Bosscut basic style, Boss-cut flange style			

^{*} Constraints associated with the allowable kinetic energy are imposed on the speeds at which the piston can be locked. The maximum speed of 750 mm/s can be accommodated if the piston is to be locked in the stationary state for the purpose of drop prevention.

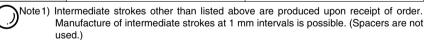
Fine Lock Specifications

Lock operation	Spring locking (Exhaust locking)	Spring and pneumatic locking	Pneumatic locking (Pressure locking)	
Fluid	Air			
Maximum operating pressure	0.5 MPa			
Unlocking pressure	0.3 MPa or more		0.1 MPa or more	
Lock starting pressure	0.25 MPa or less		0.05 MPa or more	
Locking direction	Both directions			

^{*} Refer to page 614 for the allowable kinetic energy when locking, holding force of spring locking and stopping accuracy.

Standard Stroke / Refer to the minimum auto switch mounting stroke (page 623) for those with an auto switch.

Bore size (mm)	Standard stroke ⁽¹⁾ (mm)	Maximum stroke (mm)		
20		1000		
25	25, 50, 75, 100, 125, 150 200, 250, 300	1500		
32		2000		
40		2000		



Note 2) When exceeding 300 strokes, the allowable maximum stroke length is determined by the stroke selection table (technical data).

