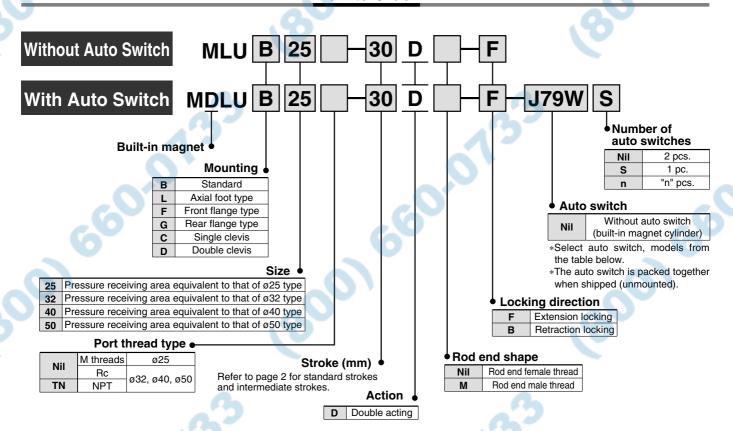
Plate Cylinder with Lock Series MLU

Ø25, Ø32, Ø40, Ø50

How to Order



Auto switch specifications

			light	\A(!:::!:= =:	L	oad volta	age	Rail r	nount	Lead	wire le	ngth	(m) *			
Туре	Special function	Electrical entry	Indicator light	Wiring (output)	[C	AC	Perpendicular	In-line	0.5 (Nil)	3 (L)	5 (Z)	None (N)		icable ad	
			Yes	3-wire (NPN equiv.)	_	5V	6) _	А76Н	•	•	_	_	IC circuit	-6	
Reed switch	Gror	Connector	res				200V	A72	A72H	•		_	_			
SWi					2-wire 24V	12V	100V	A73	A73H	•	•	•	_			
줐			No	es 2-wire		5V, 12V	100V or less		A80H	•	•	_	_		Relay, PLC	
ě	D 7		Yes				_	A73C	_		•	•				
			No			5V, 12V	24V or less		_	•	•	•				
	Diagnostic indication (2-color display)	Grommet	Yes			_	_	A79W	_	•	•		-			
"	_	Grommet		3-wire (NPN)		5V, 12V		F7NV	F79	•		0	IC circu	IC circuit		
				3-wire (PNP)				F7PV	F7P	•4		0	_	io circuit		
				2-wire		12V		F7BV	J79			0	_	_		
_		Connector	r	2-WITE		120		J79C		•			•			
switch	Diameratic in diameter.			3-wire (NPN)	EV 10V	F7NWV	F79W			0	_	IC circuit				
<u>%</u>	Diagnostic indication (2-color display)			3-wire (PNP)		5V, 12V		_	F7PW	•		0	_	10 onoun		
ig	(2-color display)		Voc		2-wire 24V	24V 12V		F7BWV	J79W		•	0	_		Relay,	
state	Water resistant (2-color display)		Yes	2-wire			12V	_	F7BA			0	_	_	PLC	
<u> </u>	vvater resistant (2 color display)	Grommet							F7BAV	A-U	_	•	0	_		
Solid	With timer	Grommot		3-wire (NPN)		5V, 12V	/, 12V		F7NT			0	_	IC circuit		
J,	With diagnostic output (2-color display)					5V,1 2V			F79F			0	_	io dicuit		
	Latch type with diagnostic output (2-color display)			4-wire (NPN)			_			F7LF	•	•	0	_	_	
	Magnetic field resistant (2-color display)			2-wire					P5DW	<u> </u>	•	•	_			

^{*}Lead wire length symbols 0.5m·····Nil (Example) A73C

3m·····L 5m·····Z A73CL (Example)

(Example) A73CZ None·····N (Example) A73CN

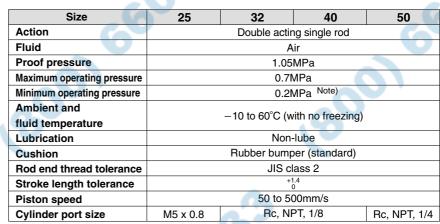
^{*}D-P5DWL type can only be mounted on the types for tubing of ø40 and ø50. Only D-P5DWL is mounted when shipped.



^{*}Solid state switches marked with a "O" symbol are produced upon receipt of order.

Plate Cylinder with Lock Series MLU





Note) The minimum operating pressure of the cylinder is 0.1MPa when the cylinder and lock are connected to separate ports.

Lock Specifications

Size	25	32	40	50	
Locking action	Spring locking (exhaust locking)				
Unlocking pressure	0.2MPa or more				
Locking pressure	0.05MPa or less				
Locking direction	One direction (extension locking, retraction locking, each type)				
Maximum operating pressure	0.7MPa				
Unlocking port connection size	M5 x 0.8	Rc, NPT, 1/8			
Holding force N (maximum static load)	245	403	629	982	

Non-rotating Rod Accuracy

Size	25	32	40	50
Non-rotating rod accuracy	±1°	±0.8°	±0.5°	±0.5°

Standard Strokes

Size	Standard stroke (mm)	Max. manufacturable stroke	
25, 32, 40, 50	5, 10, 15, 20, 25, 30, 35, 40, 45, 50	300	
25, 32, 40, 50	75, 100, 125, 150, 175, 200, 250, 300	300	

^{*}Strokes other than the above are produced upon receipt of order.

Weights

Unit: kg

	Size	25	32	40	50
	Standard	0.34	0.58	0.87	1.52
Basic	Axial foot type	0.41	0.72	1.08	1.86
weight	Flange type/Front, rear	0.44	0.72	1.10	1.98
Weight	Single clevis	0.40	0.70	1.09	1.92
	Double clevis (with pin)	0.41	0.74	1.13	1.99
Additional	weight per 50mm of stroke	0.12	0.16	0.22	0.34
Attached	Single clevis (Double clevis bracket)	0.06	0.12	0.22	0.40
metal weight	Double clevis (Single clevis bracket)	0.07	0.16	0.26	0.47
weigni	Single knuckle joint	0.03	0.04	0.07	0.16
	Double knuckle joint (with pin)	0.05	0.09	0.14	0.29

Note) The weights of the attached metal single clevis and double clevis include the weight of two pieces of mounting bolts.

Calculation method—Example: MDLUL32-100

- ●Basic weight·······0.72 (axial foot type·size32)
- ●Additional weight·······0.16/50 stroke
- •Stroke······100 stroke

 $0.72 + 100/50 \times 0.16 = 1.04$ kg

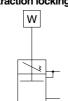


Symbol

Extension locking

Retraction locking







Theoretical Output

Unit: N

	Size	Rod (m		Actuation direction		Piston area (mm²)		
	25	12 14 16 20		IN·C	TUC	378		
	32			IN-OUT		650		
	40			IN-OUT IN-OUT		1056 1649		
	50							
	0:		Opera	ting pre	essure	(MPa)		
	Size							
ш		0.2	0.3	0.4	0.5	0.6	0.7	
ĺ	25	76	0.3 113	151	0.5 189	0.6 227	0.7 265	
	25 32	-						
		76	113	151	189	227	265	

*Theoretical = Pressure x Piston area output (N) = (MPa) x (mm²)