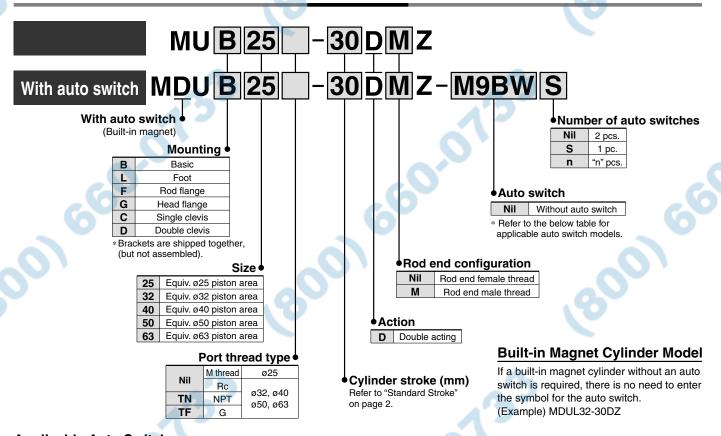
Plate Cylinder: Double Acting, Single Rod Series MU ø25, ø32, ø40, ø50, ø63

How to Order



Applicable Auto Switches/Refer to Best Pneumatics No. 2 for further information on auto switches

		Electrical	light	NAC: :	Load voltage			Auto switch model		Lead wire length (m)				Dro wired			
Type	Type Special function en		Indicator light	Wiring (Output)	DC		AC	Perpendicular	In-line	0.5 (Nil)	1 (M)	3 (L)	5 (Z)	Pre-wired connector	Applicable load		
				3-wire (NPN)	4	5 V, 12 V	2 V , 12 V 2 V —	M9NV	M9N	•	•	•	0	0	IC circuit	- 6	
_	Diagnostic indication (2-color indication) Gromi			3-wire (PNP)				M9PV	M9P		•	•	0	0	IC Circuit		
switch				2-wire		12 V		M9BV	M9B			•	0	0	_	W	
				3-wire (NPN) 3-wire (PNP)		5 V, 12 V		M9NWV	M9NW			•	0	0	IC circuit		
auto		Grommet	et Yes					M9PWV	M9PW	•	•	•	0	0	IC circuit	Dalay	
				2-wire	-l 5 V 12 V	12 V		M9BWV	M9BW	•		•	0	0	C = 1	Relay, PLC	
state				3-wire (NPN) 3-wire (PNP)		E V 10 V		M9NAV**	M9NA**	0	0	•	0	0	IC aireuit	FLC	
o p	Water resistant							M9PAV**	M9PA**	0	0	•	0	0	IC circuit		
Solid	(2-color indication)			2-wire				M9BAV**	M9BA**	0	0	•	0	0			
0)	Magnetic field resistant (2-color indication)			2-wire (Non-polar)		Y		_	P3DW Note 2)	•	_	•		0] -		
eed switch			0	Yes	3-wire (NPN equivalent)	_	5 V	_	A96V	A96	•	_	•	_	_	IC circuit	_
Reed auto swit		Grommet		O suino	24 V	10.1/	100 V	A93V	A93	•	-	•	_	_	_	Relay,	
ani				2-wire	24 V	12 V	100 V or less	A90V	A90		_	•	_	_	IC circuit	PLC	

- 0.5 mNil (Example) M9NW * Lead wire length symbols:
 - 1 m ······ M (Example) M9NWM 3 m ····· L (Example) M9NWL

 - 5 m ····· Z (Example) M9NWZ
- * For details about auto switches with pre-wired connector, refer to Best Pneumatics No. 2.
- * Auto switches are shipped together, (but not assembled).
- ** The water resistant auto switch (D-M9□A/M9□AV) can be mounted, but the product itself is not designed to be water resistant.

Note 1) The D-M9□V/M9□WV/M9□AV/A9□V auto switches cannot be mounted on the ported surface with some cylinder strokes and sizes of fittings. This should be checked beforehand.

* Solid state auto switches marked with "O" are produced upon receipt of order.

Note 2) The magnetic field resistant auto switch (D-P3DW□) is available only with ø40 to ø63 of the existing MU series. Refer to page 23 for the how-to-order.

Plate Cylinder: Double Acting, Single Rod Series MU





8001660.01

660.0133

Bore size (mm)	25	32	40	50	63			
Action	Double acting, Single rod							
Fluid	Air							
Proof pressure	1.05 MPa							
Maximum operating pressure	0.7 MPa							
Minimum operating pressure	0.05 MPa							
Ambient and fluid temperature	-10 to 60°C							
Lubrication	Not required (Non-lube)							
Piston speed	50 to 500 mm/s							
Stroke length tolerance	+1.4 0							
Cushion	Rubber bumper							
Mounting	Foot, Rod flange, Head flange, Single clevis, Double clevis							
Rod end configuration	Rod end male thread, Rod end female thread							
Allowable rotational torque	0.25	N⋅m	0.55 N·m	1.25 N·m	2.0 N·m			
Rod non-rotating accuracy	±1°	±1° ±0.8° ±0.5°						

Standard Stroke

Size Standard stroke (mm) Maximum manufacturable stroke

25, 32, 40
50, 63
50, 63
50, 63
50, 63
50, 63
50, 63
50, 63
50, 63
50, 63
50, 63
50, 63
50, 63
50, 63
50, 63
50, 63
50, 63
50, 63
50, 63
50, 63
50, 63
50, 63
50, 63



^{*} Other intermediate strokes can be manufactured upon receipt of order. Please contact SMC.

Mounting Bracket/Part No.

Size Mounting bracket	25	32	40	50	63
Foot Note 1)	MU-L02	MU-L03	MU-L04	MU-L05	MU-L06
Flange	MU-F02	MU-F03	MU-F04	MU-F05	MU-F06
Single clevis	MU-C02	MU-C03	MU-C04	MU-C05	MU-C06
Double clevis Note 3)	MU-D02	MU-D03	MU-D04	MU-D05	MU-D06



- Note 1) When ordering foot bracket, order 2 pieces per cylinder.
- Note 2) Accessories for each mounting bracket are as follows. Foot/Flange/Single clevis: Body mounting bolt

Double clevis: Clevis pin, Type C retaining ring for axis, Body mounting bolt

- Note 3) Clevis pin and retaining ring are shipped together with double clevis.
- Note 4) The tightening torque for body mounting bolts is shown in the below table.
- Note 5) The application of a locking agent (Example: Loctite® 242) to body mounting bolts is recommended.

Recommended Tightening Torque for Mounting Bracket on Body

Bore size	Thread size	Tightening torque (N·m)					
MU25	M5 x 0.8	4.9 to 5.9					
MU32	M6 x 1	8.28 to 10.12					
MU40	M8 x 1.25	19.8 to 24.2					
MU50	M10 x 1.5	39.6 to 48.4					
MU63	M12 x 1.75	68.4 to 83.6					



^{**} Strokes longer than 300 mm are not available.