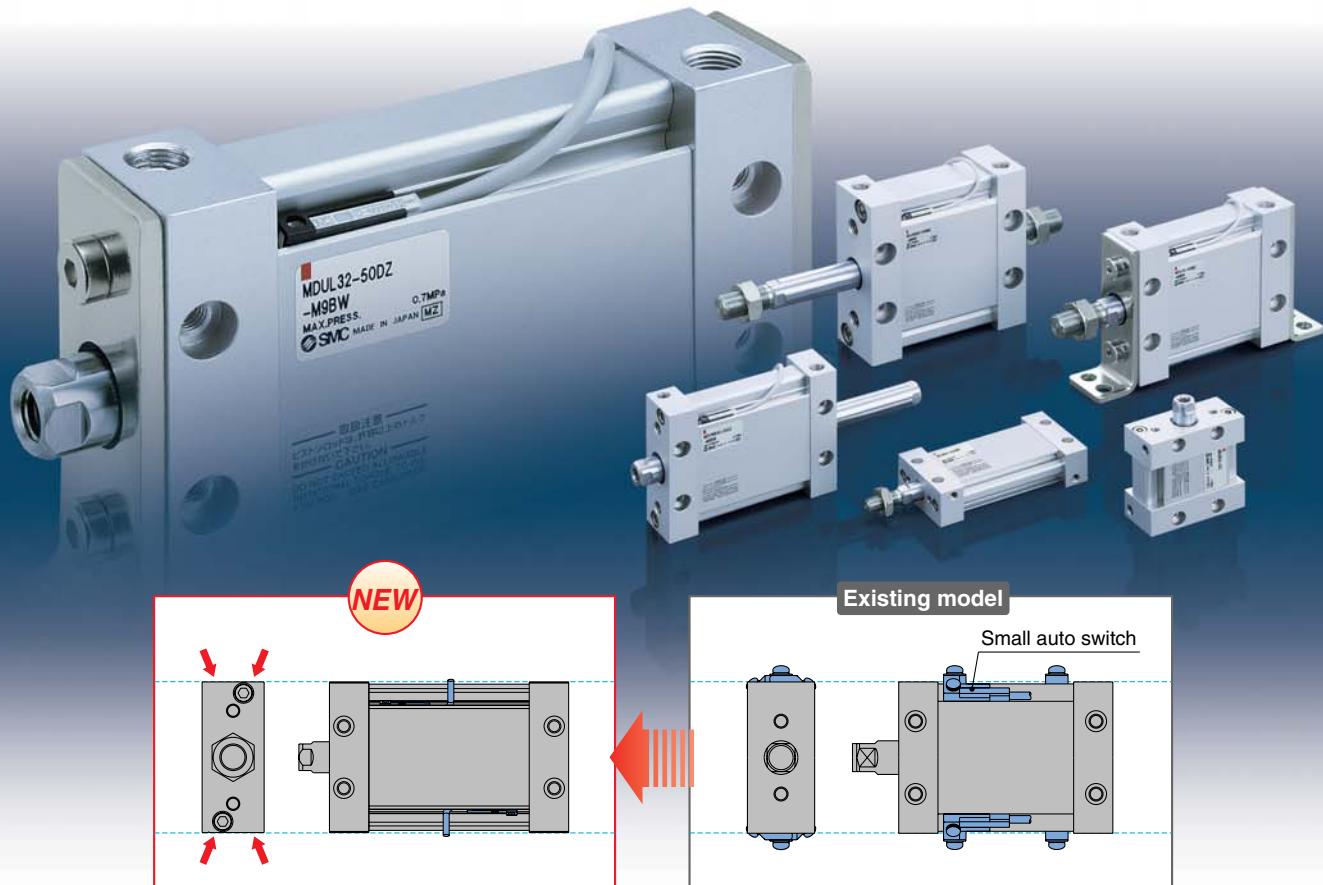


Plate Cylinder

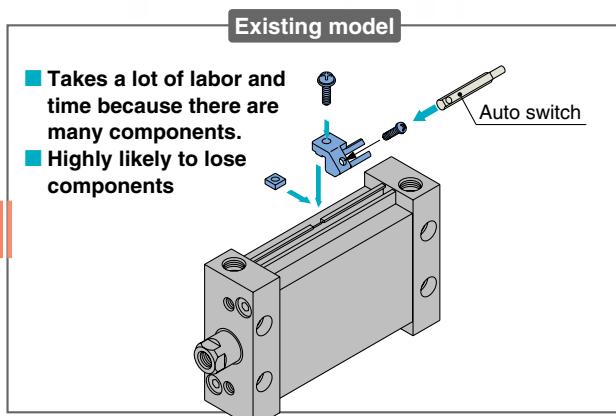
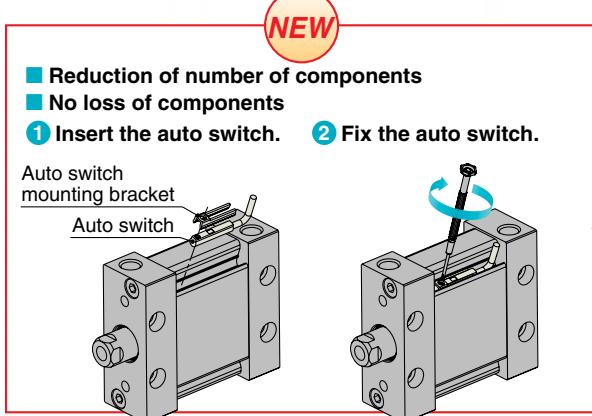
New

NEW Series MU ø25, ø32, ø40, ø50, ø63

**It is possible to mount small auto switches in 4 directions. No stick-out
Easy mounting**



● Reduction of labor for work



● Available with a stroke up to 300 mm

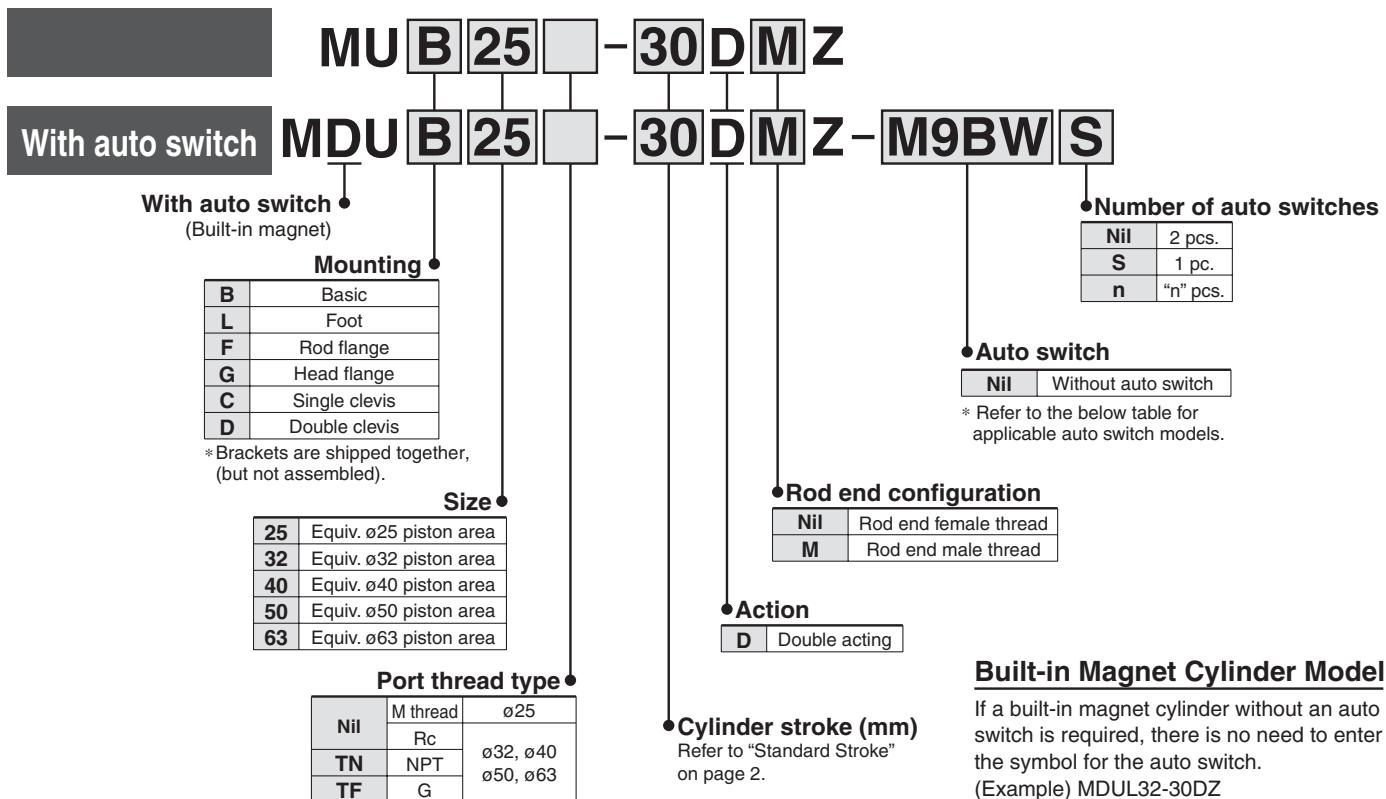
Series MU

Plate Cylinder: Double Acting, Single Rod

Series MU

ø25, ø32, ø40, ø50, ø63

How to Order



Built-in Magnet Cylinder Model

If a built-in magnet cylinder without an auto switch is required, there is no need to enter the symbol for the auto switch.
(Example) MDUL32-30DZ

Applicable Auto Switches

Refer to Best Pneumatics No. 2 for further information on auto switches.

Type	Special function	Electrical entry	Indicator light	Wiring (Output)	Load voltage		Auto switch model		Lead wire length (m)				Pre-wired connector	Applicable load		
					DC	AC	Perpendicular	In-line	0.5 (Nil)	1 (M)	3 (L)	5 (Z)				
Solid state auto switch	—	Grommet	Yes	3-wire (NPN)	24 V	5 V, 12 V	—	M9NV	M9N	●	●	●	○	IC circuit	Relay, PLC	
	Diagnostic indication (2-color indication)			3-wire (PNP)		12 V		M9PV	M9P	●	●	●	○			
	—			2-wire		5 V, 12 V		M9BV	M9B	●	●	●	○			
	—			3-wire (NPN)		12 V		M9NWV	M9NW	●	●	●	○			
	—			3-wire (PNP)		5 V, 12 V		M9PWV	M9PW	●	●	●	○			
	—			2-wire		12 V		M9BWV	M9BW	●	●	●	○			
	Water resistant (2-color indication)			3-wire (NPN)		5 V, 12 V		M9NAV**	M9NA**	○	○	●	○	IC circuit		
	—			3-wire (PNP)		12 V		M9PAV**	M9PA**	○	○	●	○			
	—			2-wire		—		M9BAV**	M9BA**	○	○	●	○			
	Magnetic field resistant (2-color indication)			2-wire (Non-polar)		—		P3DW ^{Note 2)}		●	—	●	○			
Reed auto switch	—	Grommet	Yes	3-wire (NPN equivalent)	—	5 V	—	A96V	A96	●	—	●	—	IC circuit	Relay, PLC	
	—			2-wire		24 V		A93V	A93	●	—	●	—			
	—			None	100 V or less	12 V	100 V	A90V	A90	●	—	●	—	IC circuit		

** Water resistant type auto switches can be mounted on the above models, but in such case SMC cannot guarantee water resistance.
Consult with SMC regarding water resistant types with the above model numbers.

* Lead wire length symbols: 0.5 mNil (Example) M9NW
1 mM (Example) M9NWM
3 mL (Example) M9NWL
5 mZ (Example) M9NWZ

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

* For details about auto switches with pre-wired connector, refer to Best Pneumatics No. 2.

* Auto switches are shipped together, (but not assembled).

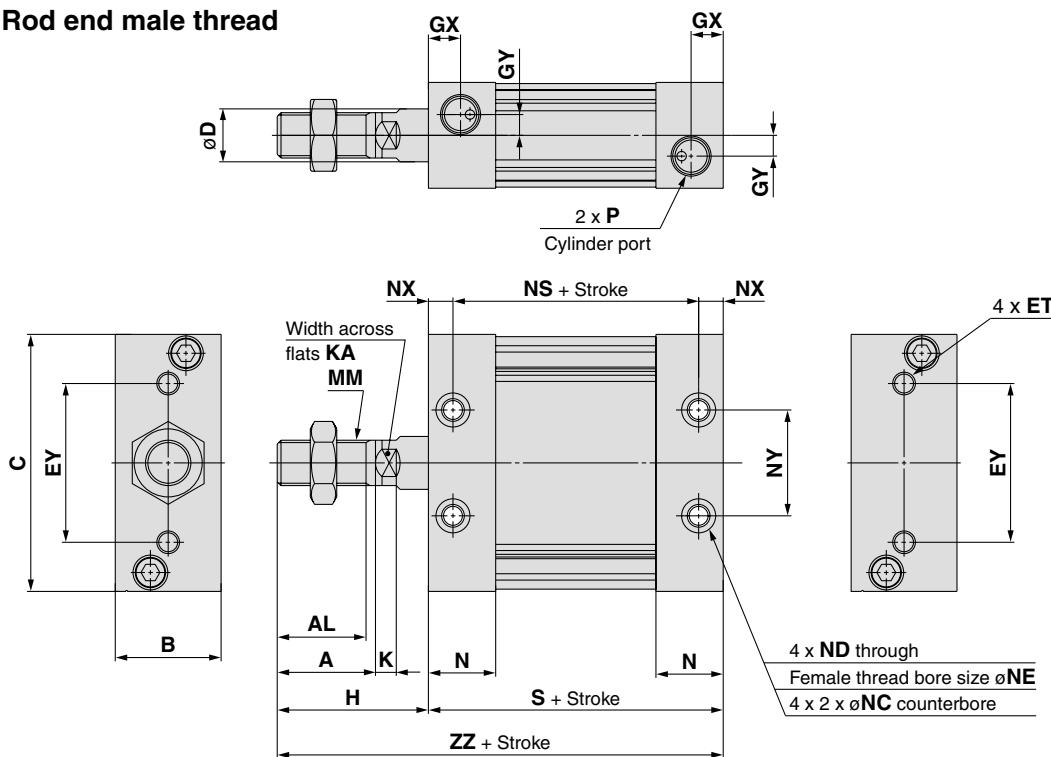
Note 1) The D-M9□V/M9□WV/M9□AV/A9□V auto switches cannot be mounted on the ported surface with some cylinder strokes and sizes of fittings. This should be checked beforehand.

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.

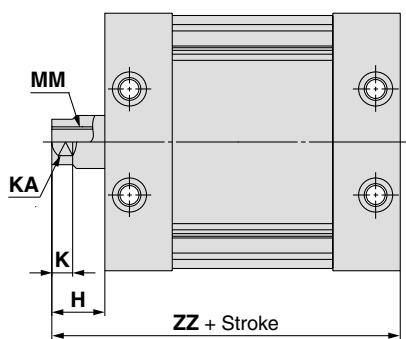
Series MU

Basic: MUB

Rod end male thread



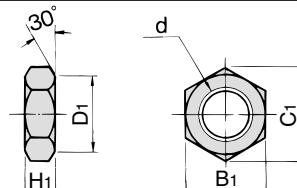
Rod end female thread



* Dimensions except mentioned on the right are the same as male thread type.

However, K and KA dimensions are the same as male thread type.

Rod end nut



Part no.	Size	d	H1	B1	C1	D1
NT-03	25	M10 x 1.25	6	17	19.6	16.5
NT-MU03	32	M12 x 1.25	7	19	21.9	18
NT-04	40	M14 x 1.5	8	22	25.4	21
NT-05	50, 63	M18 x 1.5	11	27	31.2	26

* A nut is attached to the rod. Rod end nut material: Carbon steel end male thread as standard. Surface treatment: Nickel plated

Model	Stroke range (mm)	A	AL	B	BS	BT	BX	BY	C	D	ET	EY	GX	GY	H	K	KA
MUB25	5 to 300	22	19.5	24	37	M5 x 0.8 depth 7.5	9	7	54	12	M5 x 0.8 depth 11	26	10	5	36	5.5	10
MUB32	5 to 300	26	23.5	28	45	M6 x 1 depth 12	6.5	8	68	14	M6 x 1 depth 11	42	8.5	5.5	40	5.5	12
MUB40	5 to 300	30	27	32	44	M8 x 1.25 depth 13	8	9	86	16	M8 x 1.25 depth 11	54	9	7	45	6	14
MUB50	5 to 300	35	32	39	54	M10 x 1.5 depth 14.5	10	9	104	20	M10 x 1.5 depth 15	64	11.5	8	53	7	18
MUB63	5 to 300	35	32	50	53	M12 x 1.75 depth 18	11	12	124	20	M12 x 1.75 depth 15	72	11.5	10	56	7	18

(mm)

Model	MM	N	NC	ND	NE	NS	NX	NY	P			S	ZZ
									—	TN	TF		
MUB25	M10 x 1.25	16.5	7.5 depth 4.5	M5 x 0.8	4.3	43	6	26	M5 x 0.8	—	—	55	91
MUB32	M12 x 1.25	18	9 depth 5.5	M6 x 1	5.1	45	6.5	28	Rc1/8	NPT1/8	G1/8	58	98
MUB40	M14 x 1.5	18.5	10.5 depth 6.5	M8 x 1.25	6.9	44	8	36	Rc1/8	NPT1/8	G1/8	60	105
MUB50	M18 x 1.5	24	13.5 depth 8.5	M10 x 1.5	8.7	54	10	42	Rc1/4	NPT1/4	G1/4	74	127
MUB63	M18 x 1.5	24	17 depth 10.5	M12 x 1.75	10.5	53	11	46	Rc1/4	NPT1/4	G1/4	75	131

* The position of the 4 flats of the piston rod is $\pm 3^\circ$ in relation to the cylinder side surface.

Rod End Female Thread (mm)

Model	H	MM	ZZ
MUB25	14	M6 x 1 depth 12	69
MUB32	14	M8 x 1.25 depth 13	72
MUB40	15	M8 x 1.25 depth 13	75
MUB50	18	M10 x 1.5 depth 15	92
MUB63	21	M10 x 1.5 depth 15	96