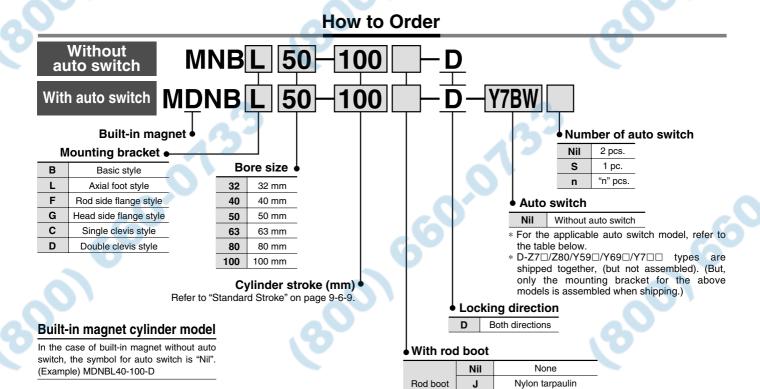


Cylinder with Lock Double Acting, Single Rod Series VINB ø32, ø40, ø50, ø63, ø80, ø100



Applicable Auto Switch/Refer to page 9-15-1 for further information on auto switches.

			'n		Load voltage		age	Auto swit	tch model	Lead wire le	ength	Auto switch model Lead wire length (m)*			
Туре	Special function	Electrical entry		Wiring (Output)		C	AC	Tie-rod mounting	Band mounting	0.5 (Nil)	3 (L)	5 (Z)	Pre-wire connector		icable ad
		Grommet		3-wire (NPN equivalent)	_	5 V	_	Z 76	<u>2</u> -,	•	•	_	_	IC circuit	_
달		Gionnie					100 V	Z73	_	•	•	•	_		Relay,
switch			,,			12 V	100 V, 200 V	A54	_	•	•				PLC
Reed		Terminal	Yes				_		A33	_	_	_	_		PLC
æ		conduit		2-wire	24 V		100 V, 200 V)	A34	_	_	_		_	Dolov
		DIN termina					100 V, 200 V	_	A44	_	_	_	_	PLC	Relay,
	Diagnostic indication (2-color indication)	Grommet					_	A59W	_	•	•	_			T LC
				3-wire (NPN)	24 V	E V 40 V		Y59A	_	•	•	0	0	IC	
		0		3-wire (PNP)	24 V	5 V, 12 V		Y7P	_	•		0	0	circuit	l.
		Grommet		2-wire			100 V, 200 V	J51	_	•		0			
등	_			2-wire		12 V		Y59B	_	•	•	0	0		
switch		Terminal		3-wire (NPN)		5 V, 12 V		_	G39	_		-	Į	IC circuit	
te s		conduit	es	2-wire		12 V		_	K39	_	_	_		_	Relay,
state			>	3-wire (NPN)		F V 10 V		Y7NW	_	•	•	0	0	IC	PLC
Solid	Diagnostic indication			3-wire (PNP)	24 V	5 V, 12 V	_	Y7PW	_	•		0	0	circuit	
ŏ	(2-color indication)	Grommet		0				Y7BW	_	•	•	0	0		
	Water resistant (2-color indication)	Giornine		2-wire		12 V		Y7BA	_	_	•	0	0		
	With diagnostic output (2-color indication)		6	A codes (NIDAN)		5 V, 12 V		F59F	_		•	0	0	IC circuit	
	Latch type with diagnostic output (2-color indication)		Ĺ	4-wire (NPN)		_		P5DW			•	•	0	_	

^{*} Lead wire length symbols: 0.5 m······Nil (Example) A54

3 m..... L (Example) A54L 5 m.... Z (Example) A54Z \ast Solid state switches marked with "O" are produced upon receipt of $\sigma r der.$

Heat resistant tarpaulin

• Since there are other applicable auto switches than listed, refer to page 9-6-22 for details.

• For details about auto switches with pre-wire connector, refer to page 9-15-66.





Cylinder with Lock Double Acting, Single Rod Series MNB

Model

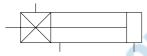
Model Ty	pe Action	Lock operation	n Bore size (mm)
MNB Non-	lube Double ac	ting Spring locking	32, 40, 50, 63, 80, 100

Cylinder Specifications

Bore size (mm)	32, 40, 50, 63, 80, 100,				
Type	Non-lube				
Fluid	Air				
Proof pressure	1.5 MPa				
Max. operating pressure	1.0 MPa				
Min. operating pressure	0.08 MPa				
Piston speed	50 to 1000 mm/s *				
Ambient and fluid temperature	Without auto switch: -10 to 70°C (No freezing) With auto switch: -10 to 60°C (No freezing)				
Cushion	Air cushion on both ends				
Stroke length tolerance	Up to 250: ^{+1.0} , 251 to 1000: ^{+1.4}				
Mounting	Basic style, Axial foot style, Rod side flange style, Center trunnion style, Single clevis style, Double clevis style				

* Load limits exist depending upon piston speed when locked, mounting direction and operating pressure.

JIS Symbol Cylinder with brake



8001660.01

660.014



Symbol	Specifications
-XA□ 《	Change of rod end shape
-XC35	With coil scraper

Lock Specifications

Locking action	Spring locking (Exhaust locking)		
Unlocking pressure	0.25 MPa or more		
Lock starting pressure	0.20 MPa or less		
Max. operating pressure	1.0 MPa		
Locking direction	Both directions		

Standard Stroke For cases with auto switches, refer to the table of minimum strokes for mounting of auto switches (page 9-6-22).

Bore size (mm)	Standard stroke (mm)	Maximum manufacturable stroke
32	25, 50, 75, 100, 125, 150, 175, 200, 250, 300, 350, 400, 450, 500	700
40	25, 50, 75, 100, 125, 150, 175, 200, 250, 300, 350, 400, 450, 500	800
50	25, 50, 75, 100, 125, 150, 175, 200, 250, 300, 350, 400, 450, 500, 600	1000
63	25, 50, 75, 100, 125, 150, 175, 200, 250, 300, 350, 400, 450, 500, 600	1000
80	25, 50, 75, 100, 125, 150, 175, 200, 250, 300, 350, 400, 450, 500, 600, 700, 800	1000
100	25, 50, 75, 100, 125, 150, 175, 200, 250, 300, 350, 400, 450, 500, 600, 700, 800	1000

Intermediate strokes are available, too.

Stopping Accuracy

(mm)

Lagistima	Piston speed (mm/s)						
Lock type	100	300	500	1000			
Spring locking	±0.3	±0.6	±1.0	±2.0			

Condition: Lateral, Supply pressure P = 0.5 MPa

Load weight Upper limit of allowed value

Solenoid valve for locking mounted on the unlocking port

Maximum value of stopping position dispersion from 100 measurements

Holding Force of Spring Locking (Maximum static load)

Bore size (mm)	32	40	50	63	80	100
Holding force (N)	552	882	1370	2160	3430	5390

CL

MLGC

CL₁

CNG

MNB

CNA

CNS

CLS

CLQ

MLGP

RLQ MLU

ML1C

D--X

20-

Data