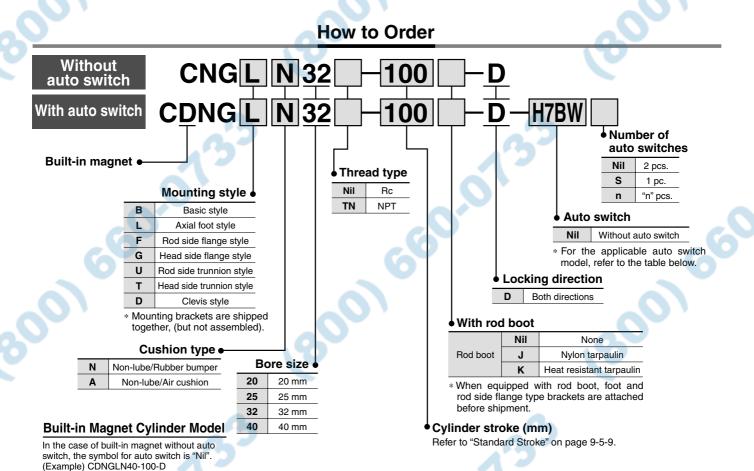
Cylinder with Lock Double Acting, Single Rod Series CNG

ø20, ø25, ø32, ø40



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

7 4 7		Electrical	light	140.1	L	oad volta	age	O'	Lead v	ire le	ength	(m) *								
Туре	Type Special function		Indicator light	Wiring (Output)		C	AC	Auto switch model	0.5 (Nil)	3 (L)	5 (Z)	None (N)	Pre-wire connector	Applica	ble load					
switch	to Ch	0		3-wire (NPN equivalent)	-	5 V	8	C76	•	•	-	_	_	IC circuit	6					
SW.	_	Grommet	Yes			4	100 V, 200 V	B54	•	•	•	_	_							
00					2-wire 24 V	, 12 V	100 V	C73	•	•		_	_		Relay,					
Reed		Connector		2-wire		24 V	24 V		C73C	•	•		•	=	2 1	PLC				
	Diagnostic indication (2-color indication)	Grommet				12 V	12 V	_	B59W	•	•	_	_							
				3-wire (NPN) 3-wire (PNP)	4		H7A1	•	•	0	L	0	IC							
ے		Grommet					5 V, 12 V	5 V, 12 V	12 V	H7A2	•	•	0	1	0	circuit				
switch	_			O sudne				12 V	10.1		H7B	•	•	0	Ī	0				
S		Connector		2-wire											12 V		H7C	•	•	
ate	Diagnostic indication		Yes	3-wire (NPN)	24 V	5 V 40 V	_	H7NW	•	•	0	_	0	IC	Relay, PLC					
ठ		1011	_	3-wire (PNP)] 5 \	5 V, 12 V	H7PW	•	•	0	_	0	circuit	1 LC						
Solid	(2-color indication)	Grommet		2-wire	10)	12 V		H7BW		•	0	_	0							
တ	Water resistant (2-color indication)		9	2-1/116		12 V	12 V		H7BA	-		0	_	0	_					
	With diagnostic output (2-color indication)	_ A		4-wire (NPN)		5 V, 12 V		H7NF			0	_	0	IC circuit						

^{*} Solid state switches marked with "O" are produced upon receipt of order. * Lead wire length symbols: 0.5 m Nil (Example) C73C

3 m ····· L (Example) C73CL 5 m ···· Z (Example) C73CZ None ···· N (Example) C73CN

[•] Since there are other applicable auto switches than listed, refer to page 9-5-22 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 CNG

Model

Series	Type	Action	Bore size (mm)	Lock operation
CNG	Non-lube	Double acting	20 , 25 , 32 , 40	Spring locking

Cylinder Specifications

Туре	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	Rubber bumper, Air cushion			
Stroke length tolerance (mm)	Up to 800 st: +1.4			
Thread tolerance	JIS Class 2			
Mounting	Basic style, Axial foot style, Rod side flange style, Head side flange style, Rod side trunnion style, Head side trunnion style, Clevis style (used for 90° change of port position)			

^{*} When the piston is locked, the load weight is limited by the mounting orientation and the operating pressure

Lock Specifications

20	25	32	40
Locking action		Exhaust locking)	
0.20 MPa or more	0.25 MPa or more		
0.15 MPa or less	0.20 MPa or less		
0.2 to 1.0 MPa 0.25 to 1.0 MPa			l
Both directions			
	0.20 MPa or more 0.15 MPa or less	Spring locking (E 0.20 MPa or more 0.15 MPa or less 0.2 to 1.0 MPa	Spring locking (Exhaust locking) 0.20 MPa or more 0.25 MPa or more 0.15 MPa or less 0.20 MPa or less 0.2 to 1.0 MPa 0.25 to 1.0 MPa

Standard Stroke

Bore size (mm)	Standard stroke (mm)(1)	Long stroke (mm)	Max. manufacturable stroke (mm)	
20	25, 50, 75, 100, 125, 150, 200	201 to 350		
25	05 50 75 400 405 450 000	301 to 400	1500	
32	25, 50, 75, 100, 125, 150, 200, 250, 300	301 to 450	1500	
40	250, 500	301 to 800	V	

Note 1) Intermediate strokes other than the above are produced upon receipt of order. Spacers are not used for intermediate strokes.

Note 2) Long strokes are applicable to the axial foot style and rod side flange style. In the case of other mounting brackets or when long stroke limits are exceeded, the maximum useable stroke is determined by the stroke selection table (information edition).

Stopping Accuracy

				(mm)		
Look tuno	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 directly to unlocking port Maximum value of stopping position dispersion from 100 measurements

Holding Force of Spring Locking (Maximum static load)

Bore size (mm)	20	25	32	40
Holding force (N)	215	335	550	860



JIS Symbol





Symbol	Specifications
-XA□	Change of rod end shape

Minimum Stroke for Auto Switch Mounting

Model	No. of auto switches mounted			
Model	2	1		
D-C7/C8 D-B5/B6 D-H7 D-G5NTL	15 mm	10 mm		
D-B59W	20 mm	15 mm		

Rod Boot Material

Symbol	Rod boot material	Max. operating temperature
J	Nylon tarpaulin	70°C
K	Heat resistant tarpaulin	110°C *

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

660.0

9-5-9

CL

MLGC

CL1

CNG

MNB

CNA

CNS

CLS

CLQ

MLGP

RLQ MLU

ML1C

D-

-X

20-Data