ISO/VDMA Cylinder: With Lock Type
Double Acting, Single Rod
Series C95N
ø32, ø40, ø50, ø63, ø80, ø100

How to Order

Without auto switch C95N **B** **32** — **100** — **D**

With auto switch C95ND **B** **32** — **100** — **D** — **A53** **S**

Built-in magnet

Mounting style

B	Basic/without bracket style
L	Axial foot style
F	Rod side flange style
G	Head side flange style
C	Single clevis style
D	Double clevis style

Bore size

32	32 mm
40	40 mm
50	50 mm
63	63 mm
80	80 mm
100	100 mm

Stroke (mm)
Refer to "Standard Stroke" on page 6-12-20.

Lock direction

D	Both direction

Auto switch

Nil	Without auto switch

∗ For the applicable auto switch model, refer to the table below.

Number of auto switches

Nil	2 pcs.
S	1 pc.
n	"n" pcs.

Applicable Auto Switch/Tie-rod Mounting

Type	Special function	Electrical entry	Indicator light	Wiring (Output)	Load voltage DC	Load voltage DC	Load voltage AC	Auto switch model: Tie-rod mounting	Auto switch model: Band mounting	Lead wire length (m): 0.5 (Nil)	3 (L)	5 (Z)	Applicable load	
Reed switch	—	Grommet	Yes	3-wire (Equiv. to NPN)	—	5 V	—	**A56**	—	●	●	—	IC	—
				2-wire	24 V	12 V	—	**A53**	—	●	●	●	—	Relay, PLC
							100 V, 200 V	**A54**	—	●	●	●		
			No			5 V, 12 V	—	**A67**	—	●	●	—	IC	
						12 V	200 V or less	**A64**	—	●	●	—	—	
	Diagnostic indication (2-color)		Yes			—	—	**A59W**	—	●	●	—		
	—			3-wire	—	5 V	—	**Z76**	—	●	●	—	IC	—
				2-wire	24 V	12 V	AC 100	**Z73**	—	●	●	●	—	Relay, PLC
			No			5 V, 12 V	100 V or less	**Z80**	—	●	●	—	IC	
		Terminal conduit	Yes			12 V	—	—	**A33**	—	—	—	—	PLC
		DIN terminal					100 V, 200 V	—	**A34**	—	—	—	—	Relay, PLC
								—	**A44**	—	—	—		
Solid state switch	—	Grommet	Yes	3-wire (NPN)	24 V	5 V, 12 V	—	**F59**	—	●	●	○	IC	Relay, PLC
				3-wire (PNP)				**F5P**	—	●	●	○		
				2-wire	—	—	100 V, 200 V	**J51**	—	●	●	○	—	
	Diagnostic indication (2-color)				24 V	12 V	—	**J59**	—	●	●	○		
				3-wire (NPN)		5 V, 12 V		**F59W**	—	●	●	○	IC	
				3-wire (PNP)				**F5PW**	—	●	●	○		
				2-wire		12 V		**J59W**	—	●	●	○	—	
	Water resistant (2-color)							**F5BAL**	—	—	●	○		
	With timer			3-wire (NPN)		5 V, 12 V		**F5NTL**	—	—	●	○	IC	
	Diagnostic output (2-color)			4-wire (NPN)				**F59F**	—	●	●	○		
	Strong magnetic field resistant (2 color)			2-wire		—	—	**P5DW**	—	—	●	●	—	
	—			3-wire (NPN)		5 V, 12 V		**Y59A**	—	●	●	○	IC	Relay, PLC
				2-wire		—		**Y59B**	—	●	●	○	—	
				3-wire (PNP)		5 V, 12 V		**Y7P**	—	●	●	○	IC	
	Diagnostic indication (2-color)			3-wire (NPN)				**Y7NW**	—	●	●	○		
				3-wire (PNP)				**Y7PW**	—	●	●	○		
				2-wire		—		**Y7BW**	—	●	●	○	—	
	Water resistant (2-color)							**Y7BAL**	—	—	●	○		
	—	Terminal conduit		3-wire (NPN)		5 V, 12 V		—	**G39**	—	—	—	IC	
				2-wire		12 V		—	**K39**	—	—	—	—	

∗ Lead wire length symbols: 0.5 m ····· Nil (Example) A53
3 m ····· L (Example) A53L
5 m ····· Z (Example) A53Z

○: Manufactured upon receipt of order.
Refer to page 6-16-1 for details of applicable auto switches in addition to those listed above.

Auto Switch Mounting Bracket Part No.

Bore size (mm)	32	40	50	63	80	100
D-A3/A4/K3/G3	BMB2-032	BMB2-040	BMB1-050	BMB1-063	BMB1-080	BMB1-100
D-A5/A6/F5/J5	BT-03		BT-05		BT-06	
D-Z□/Y□	BMB4-032		BMB4-050		BMB4-063	
D-P5DWL	BMB3T-040		BMB3T-050		BMB3T-080	

Specific Product Precautions 4

Be sure to read before handing.

Maintenance

⚠ Caution

1. The lock units for the C95N series are replaceable.

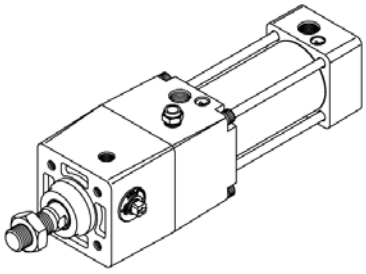
To order replacement lock units for the C95N series use the order numbers given in the table below.

Bore size (mm)	Lock unit part no.
32	C95N32D-UA
40	C95N40D-UA
50	C95N50D-UA
63	C95N63D-UA
80	C95N80D-UA
100	C95N100D-UA

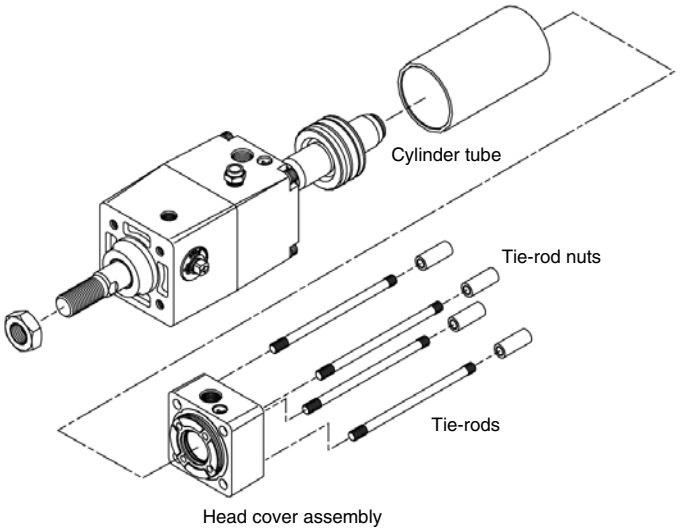
2. Replacement of lock units.

1) Loosen the tie-rod nuts (4 pcs.) on the cylinder head cover using a hexagon wrench. Refer to the table below for the applicable hexagon wrench.

Bore size (mm)	Tie-rod nut socket width across flats (mm)
32, 40	6
50, 63	8
80, 100	10

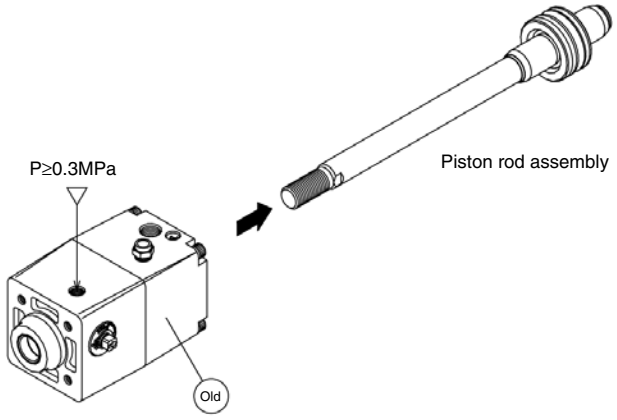


2) Remove the tie-rods, head cover and cylinder tube.

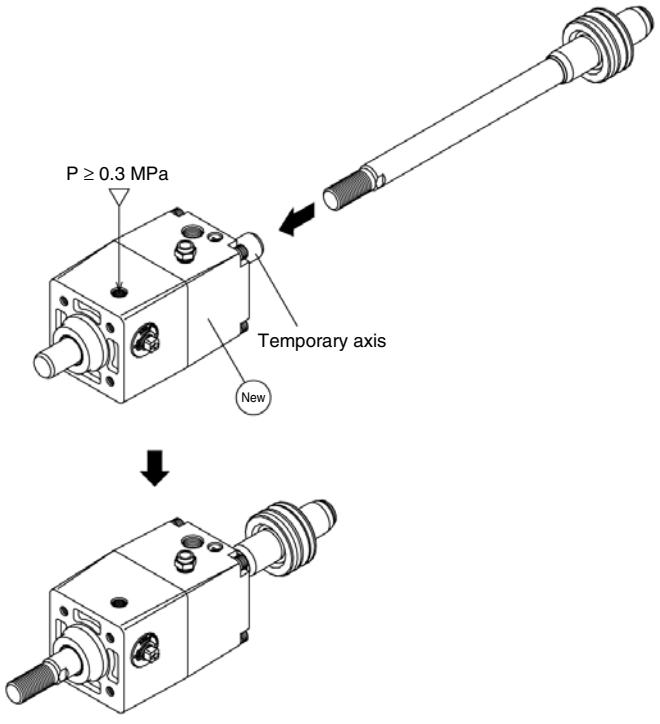


⚠ Caution

3) Apply 0.3 MPa or more of compressed air to the unlocking port, and pull out the piston rod assembly.



4) Similarly, apply 0.3 MPa or more of compressed air to the unlocking port of the new lock unit, and replace the symposium with the previously mentioned piston rod assembly.



5) Reassemble in reverse order from steps 2) and 1).