

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

Auto switch

Nil Without auto switch
* For the applicable auto switch model, refer to the table below.

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

Lock direction

D	Both direction
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Stroke (mm)

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

Applicable Auto Switch/Tie-rod Mounting

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

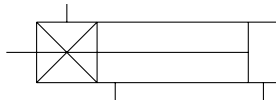
Auto Switch Mounting Bracket Part No.

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	BT-06	BT-06	BT-06
D-Z□/Y□	BMB4-032	BMB4-050	BMB4-063	BMB4-063	BMB4-063	BMB4-063
D-P5DWL	BMB3T-040	BMB3T-050	BMB3T-050	BMB3T-080	BMB3T-080	BMB3T-080

Series C95N



JIS Symbol
Cylinder with lock



Specifications

Bore size (mm)	32, 40, 50, 63, 80, 100
Model	Non-lube
Fluid	Air
Proof pressure	1.5 MPa
Maximum operating pressure	1.0 MPa
Minimum operating pressure	0.08 MPa
Piston speed	50 to 1000 mm/s Note)
Ambient and fluid temperature	Without auto switch: -10°C to 70°C (No freezing) With auto switch: -10°C to 60°C (No freezing)
Cushion	Double side air cushion
Stroke length tolerance	Up to 250: $^{+1.0}_0$, 251 to 1000: $^{+1.4}_0$
Mounting	Basic style, Axial foot style, Rod side flange style, Head side flange style, Single clevis style, Double clevis style

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

Lock Specifications

Lock actuation	Spring lock (Exhaust lock)
Unlocking pressure	0.25 MPa or more
Locking pressure	0.20 MPa or less
Maximum operating pressure	1.0 MPa
Locking direction	Two-way

Standard Stroke

For cases with auto switches, refer to the table of minimum strokes for mounting of auto switches on page 6-12-25.

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

Stopping Accuracy

(mm)

Locking system	Piston speed (mm/s)			
	100	300	500	1000
Spring lock	±0.3	±0.6	±1.0	±2.0

Conditions / Horizontal supply pressure P = 0.5 MPa

Load weight.....Upper limit of allowable value

Solenoid valve for locking mounted on the unlocking port

Maximum value of stopping position dispersion from 100 measurements

Spring Lock Holding Power (Maximum static load)

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