

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

Lock direction

D	Both direction
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Stroke (mm)

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

Auto switch

Nil	Without auto switch
S	1 pc.
n	"n" pcs.

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			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	
Diagnostic indication (2-color)	—	Terminal conduit	Yes	2-wire	24 V	12 V	100 V, 200 V	—	A44	—	—	—	—	
														DIN terminal
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	—	●	●	○	—	
				3-wire (NPN)	5 V, 12 V	J59	—	●	●	○	—			
	F59W					—	●	●	○	IC				
	3-wire (PNP)			F5PW	—	●	●	○	—					
	2-wire			12 V	J59W	—	●	●	○	—				
	3-wire (NPN)			5 V, 12 V	F5BAL	—	—	●	○	—				
	4-wire (NPN)			F5NTL	—	—	●	○	IC					
	2-wire			—	F59F	—	●	●	○	—				
	3-wire (NPN)			5 V, 12 V	P5DW	—	—	●	●	—				
	2-wire			—	Y59A	—	●	●	○	IC				
	3-wire (PNP)			5 V, 12 V	Y59B	—	●	●	○	—				
	3-wire (NPN)			5 V, 12 V	Y7P	—	●	●	○	IC				
	3-wire (PNP)			Y7NW	—	●	●	○						
	2-wire			—	Y7PW	—	●	●	○					
	3-wire (NPN)	Y7BW	—	●	●	○	—							
	Diagnostic indication (2-color)	—	Terminal conduit	Yes	3-wire (NPN)	5 V, 12 V	—	Y7BAL	—	—	●	○	IC	
					2-wire	12 V	—	G39	—	—	—	—		
					3-wire (NPN)	5 V, 12 V	—	K39	—	—	—	—		
					2-wire	12 V	—	—	—	—	—	—		

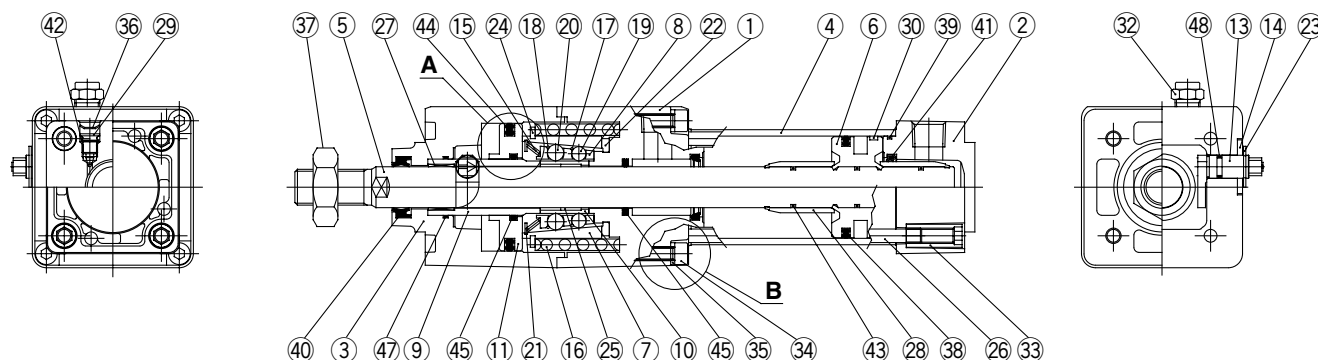
* Lead wire length symbols: 0.5 m Nil (Example) A53
3 m L (Example) A53L
5 m Z (Example) A53Z

○: Manufactured upon receipt of order.

Refer to page 6-16-1 for details of applicable auto switches in addition to those listed above.

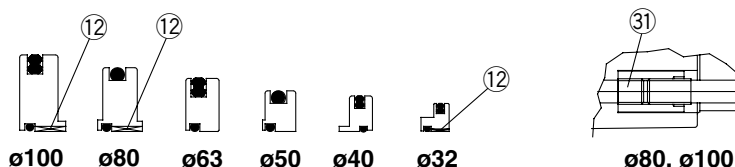
Auto Switch Mounting Bracket Part No.

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-05	BT-06	BT-06	BT-06
D-Z□/Y□	BMB4-032	BMB4-050	BMB4-050	BMB4-063	BMB4-063	BMB4-063
D-P5DWL	BMB3T-040	BMB3T-050	BMB3T-050	BMB3T-080	BMB3T-080	BMB3T-080



Section A
(Release piston bushing)

Section B
(Tie-rod for unit attachment)



Component Parts

No.	Description	Material	Qty.	Note
①	Rod cover	Aluminum alloy	1	
②	Head cover	Aluminum die-casted	1	
③	Cover	Aluminum alloy	1	
④	Cylinder tube	Aluminum alloy	1	
⑤	Piston rod	Carbon steel	1	
⑥	Piston	Aluminum alloy	1	
⑦	Taper ring	Carbon steel	1	
⑧	Ball retainer	Special resin	1	
⑨	Piston guide	Carbon steel	1	
⑩	Brake shoe holder	Special steel	1	
⑪	Brake release piston	32, 80, 100	Carbon steel	1
		40, 50, 63	Aluminum alloy	1
⑫	Brake release piston bushing	Steel + Special resin	1	32, 80, 100 only
⑬	Cam for lock release	Chrome molybdenum steel	1	
⑭	Washer	Carbon steel	1	
⑮	Spring for retainer pre-load	Stainless wire	1	
⑯	Brake spring	Stainless wire	1	
⑰	Clip A	Stainless steel	1	
⑱	Clip B	Stainless steel	1	
⑲	Steel ball A	32 to 50	Carbon steel	10
		63 to 100	Carbon steel	9

No.	Description	Material	Qty.	Note
⑳	Steel ball B	Carbon steel	32 to 50: 10 63 to 100: 9	
㉑	Tooth ring	Stainless steel	1	
㉒	Damper	Polyurethane rubber	1	
㉓	Snap ring for release cam ㉔	Carbon steel	1	
㉔	Snap ring for taper ring	Carbon steel	1	
㉕	Brake shoe	Special friction material	2	
㉖	Tie-rod	Carbon steel	4	
㉗	Bushing	Lead bronze casting	1	
㉘	Cushion ring	Brass	2	
㉙	Cushion valve	Steel wire	2	
㉚	Wear ring	Resin	1	
㉛	Tie-rod for unit attachment	Carbon steel	2	
㉜	BC element	Bronze + Brass	1	
㉝	Tie-rod nut	Carbon steel	32 to 63: 4 80, 100: 8	
		Steel		
㉞	Cap screw	Chrome molybdenum steel	4	
㉟	Spring washer	Steel wire	4	
㊱	Snap ring	Steel for spring	2	40 to 100
㊲	Rod end nut	Steel	1	

No.	Description	Material	Qty.
㉛	Piston seal	NBR	1
㉜	Tube gasket	NBR	2
㉝	Rod seal A	NBR	1
㉞	Cushion seal	NBR	2
㉟	Cushion seal valve	NBR	2
㊱	Piston gasket	NBR	3
㊲	Release piston seal	NBR	1
㊳	Road seal B	NBR	1
㊴	Gasket for release piston	NBR	1
㊵	Gasket for release guide	NBR	1
㊶	Gasket for release cam	NBR	1

Replacement Parts: Seal Kit

Bore size (mm)	Kit no.	Contents
32	CS95-32	Kits include items ㉛ and ㉜ to ㊱.
40	CS95-40	
50	CS95-50	
63	CS95-63	
80	CS95-80	
100	CS95-100	

* Seal kits consist of items ㉛ and ㉜ to ㊱ contained in one kit, and can be ordered using the order number for each respective tube bore size.