

ISO/VDMA Cylinder: Standard Type Double Acting, Single/Double Rod Series C95

ø32, ø40, ø50, ø63, ø80, ø100

How to Order

Without auto switch

C95S

B 32 100 W

With auto switch

C95SD

B 32 100 W 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
T	Center trunnion 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 6-12-4.

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.
3	3 pcs.
n	"n" pcs.

Rod

Nil	Single rod
W	Double rod

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	—	●	●	—	IC			
	—		—			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	—	PLC			
	Yes			2-wire	24 V	12 V	100 V, 200 V	—	A33	—	—	—	Relay, PLC		
								—	A34	—	—	—		—	
Diagnostic indication (2-color)	Grommet	Yes	2-wire	24 V	12 V	100 V, 200 V	—	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	—	●	●	○	—		—
				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	—	—	●	○	—	—				
					F5NTL	—	—	●	○	IC					
	4-wire (NPN)			F59F	—	●	●	○	—	—					
	2-wire			—	P5DW	—	—	●	●	—	—				
	3-wire (NPN)			5 V, 12 V	Y59A	—	●	●	○	IC	Relay, PLC				
					Y59B	—	●	●	○	—					
	2-wire			—	Y7P	—	●	●	○	IC					
	3-wire (PNP)			5 V, 12 V	Y7NW	—	●	●	○						
	3-wire (NPN)				Y7PW	—	●	●	○						
	3-wire (PNP)	Y7BW	—	●	●	○	—								
	2-wire	—	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.

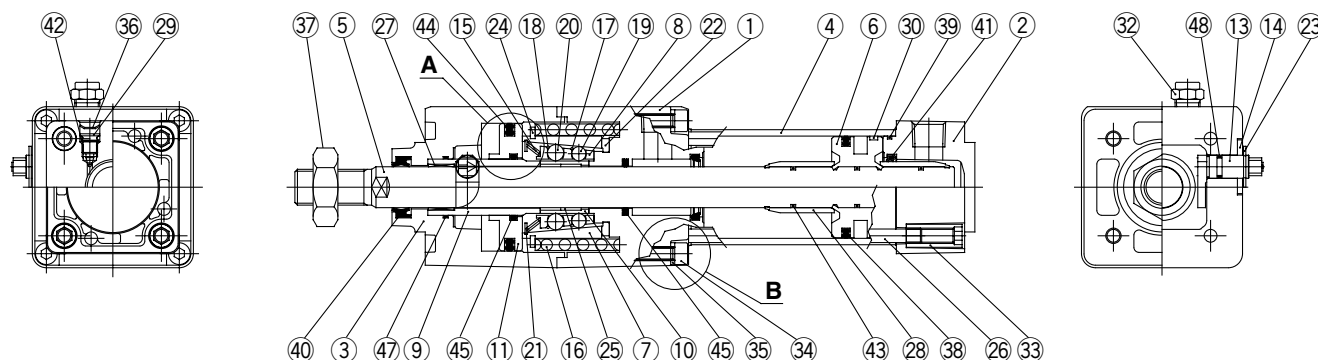
Auto Switch Mounting Bracket Part No.

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

Series C95N

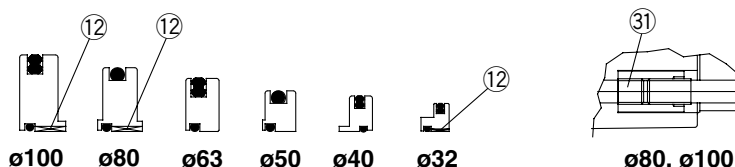
Construction

[First angle projection]



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.