

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
3	3 pcs.
n	"n" pcs.

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

Rod

Nil	Single rod
W	Double rod

Number of auto switches

Nil	2 pcs.
S	1 pc.
3	3 pcs.
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 (NPN) (Equiv. to NPN)	24 V	5 V	—	A56	—	●	●	—	IC	—
								A53	—	●	●	●	—	
								A54	—	●	●	●	—	
								A67	—	●	●	—	—	
								A64	—	●	●	—	—	
	Diagnostic indication (2-color)	Terminal conduit DIN terminal	No	2-wire	24 V	5 V, 12 V	—	A59W	—	●	●	—	—	Relay, PLC
								Z76	—	●	●	—	—	
								Z73	—	●	●	●	—	
								Z80	—	●	●	—	—	
								—	—	—	—	—	—	
Solid state switch	—	Grommet	Yes	3-wire (NPN) 3-wire (PNP)	24 V	5 V, 12 V	—	F59	—	●	●	○	IC	—
								F5P	—	●	●	○	—	
								J51	—	●	●	○	—	
								J59	—	●	●	○	—	
								—	—	—	—	—	—	
	Diagnostic indication (2-color)	Terminal conduit	Yes	2-wire	24 V	5 V, 12 V	—	F59W	—	●	●	○	IC	Relay, PLC
								F5PW	—	●	●	○	—	
								J59W	—	●	●	○	—	
								F5BAL	—	●	●	○	—	
								F5NTL	—	●	●	○	—	
Water resistant (2-color) With timer Diagnostic output (2-color) Strong magnetic field resistant (2 color)	Terminal conduit	Yes	2-wire	24 V	5 V, 12 V	—	P5DW	—	—	●	●	—	—	
							—	—	—	—	—	—		
							Y59A	—	●	●	○	IC		
							Y59B	—	●	●	○	—		
							Y7P	—	●	●	○	—		
Diagnostic indication (2-color)	Terminal conduit	Yes	3-wire (NPN) 3-wire (PNP)	24 V	5 V, 12 V	—	Y7NW	—	●	●	○	IC	Relay, PLC	
							Y7PW	—	●	●	○	—		
							Y7BW	—	●	●	○	—		
							Y7BAL	—	●	●	○	—		
							—	—	—	—	—	—		—
Water resistant (2-color)	Terminal conduit	Yes	2-wire	24 V	5 V, 12 V	—	G39	—	—	—	—	IC	—	
							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.

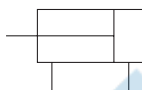
Auto Switch Mounting Bracket Part No.

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 C95



JIS Symbol
Double acting



Minimum Stroke for Auto Switch Mounting

Refer to page 6-12-16 for "Minimum Stroke for Auto Switch Mounting".



Made to Order Specifications (For details, refer to page 6-17-19.)

Symbol	Specifications
-XB6	Heat resistant cylinder (150°C)
-XB13	Low speed cylinder (5 to 50 mm/s)
-XC4	With heavy duty scraper
-XC6	Piston rod and rod end nut made of stainless steel
-XC18	NPT finish piping
-XC22	Fluoro rubber seals
-XC35	With coil scraper

Specifications

Bore size (mm)	32	40	50	63	80	100
Action	Double acting					
Fluid	Air					
Proof pressure	1.5 MPa					
Max. operating pressure	1.0 MPa					
Min. operating pressure	0.05 MPa					
Ambient and fluid temperature	Without auto switch: -10 to 70°C (No freezing) With auto switch: -10 to 60°C (No freezing)					
Lubrication	Not required (Non-lube)					
Operating piston speed	50 to 1000 mm/s					
Allowable stroke tolerance	Up to 250: $+1.0_0$, 251 to 1000: $+1.4_0$, 1001 to 1500: $+1.8_0$					
Cushion	Both ends (Air cushion)					
Thread tolerance	JIS Class 2					
Port size	G 1/8	G 1/4	G 1/4	G 3/8	G 3/8	G 1/2
Mounting	Basic style, Axial foot style, Rod side flange style, Head side flange style, Single clevis style, Double clevis style, Center trunnion style					

Standard Stroke

Bore size (mm)	Standard stroke (mm)	Max. * stroke
32	25, 50, 80, 100, 125, 160, 200, 250, 320, 400, 500	700
40	25, 50, 80, 100, 125, 160, 200, 250, 320, 400, 500	800
50	25, 50, 80, 100, 125, 160, 200, 250, 320, 400, 500, 600	1200
63	25, 50, 80, 100, 125, 160, 200, 250, 320, 400, 500, 600	1200
80	25, 50, 80, 100, 125, 160, 200, 250, 320, 400, 500, 600, 700, 800	1400
100	25, 50, 80, 100, 125, 160, 200, 250, 320, 400, 500, 600, 700, 800	1500

Intermediate strokes are available.

* Please consult with SMC for longer strokes.

Accessory

Mounting		Basic style	Foot style	Rod side flange style	Head side flange style	Single clevis style	Double clevis style	Center trunnion style
Standard	Rod end nut	●	●	●	●	●	●	●
	Clevis pin	—	—	—	—	—	●	—
Option	Single clevis	●	●	●	●	●	●	●
	Double clevis (With pin)	●	●	●	●	●	●	●
	Rod boot	●	●	●	●	●	●	●