ISO Standard (15552)

Air Cylinder: Standard Type **Double Acting, Single/Double Rod**

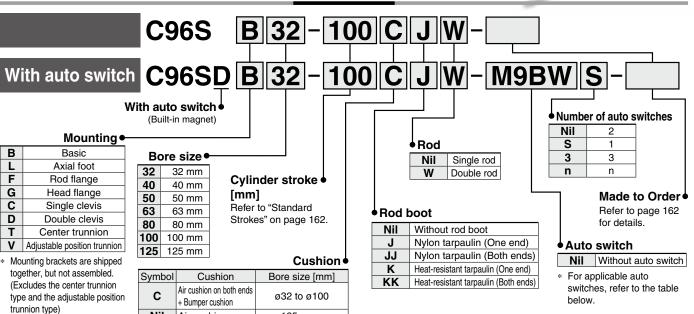


C96 Series

Ø32, Ø40, Ø50, Ø63, Ø80, Ø100, Ø125



How to Order



ø125 Applicable Auto Switches/Refer to the Web Catalog or Best Pneumatics for further information on auto switches.

	Special function	Electrical entry	Indicator	Wiring	Load voltage			Auto switch model		Lead wire length [m]				Pre-wired	Appli	icable
Type				(Output)	DC		AC	Tie-rod mounting	Band mounting	0.5 (Nil)	1 (M)	3 (L)	5 (Z)	connector	Applicable load	
4		Grommet Terminal conduit		3-wire (NPN)	PN) PN) PN) PN) PN) PN) PN)	5 V, 12 V	——————————————————————————————————————	M9N	_	•	•	•	0	0	IC	cuit - ircuit - Cuit -
			Yes	3-wire (PNP)				M9P		•	•	•	0	0	circuit	
	_			2-wire		12 V		M9B		•	•	•	0	0	<u> </u>	
				3-wire (NPN)		5 V, 12 V			G39	_		_	_	_	IC circuit	
wit				2-wire		12 V		-	K39	_	_	_	_	_		
S	Diagnostic indication (2-color indicator)	_		3-wire (NPN)		5 V, 12 V		M9NW		•		•	0	0	IC circuit	
ă,				3-wire (PNP) 2-wire		12 V		M9PW M9BW		-		•	0	0		
Solid state auto switch				3-wire (NPN)		12 V		M9NA*1			0	_	0	0		
	Water-resistant (2-color indicator)	Grommet		3-wire (NPN)		5 V, 12 V		M9PA*1		0	0		0	0	circuit	
				2-wire		12 V		M9BA*1		0	0		0	0	—	
	With diagnostic output (2-color indicator)			4-wire (NPN)		5 V, 12 V		F59F	_	•	_	•	0	0	IC circuit	
	Magnetic field resistant (2-color indicator)			2-wire (Non-polar)		_		P4DW	_	_	_	•	•	0	_	
		Grommet	Yes 3-wire (NPN equivalent) No Yes		_	5 V	_	A96	_	•	_	•	_	_	IC circuit	_
r,							100 V	A93	_	•	•	•	•	_	_	
Reed auto switch							100 V or less	A90	_	•	_	•	_	_	IC circuit R	Relay,
					12 V	100 V, 200 V	A54		•	_	•	•	_		PLC	
			No	2-wire 24 V		200 V or less	A64		•	_	•		_			
		Terminal conduit			24 V		_	_	A33	_	_	_	_] —] R	PLC
							100 V, 200 V	_	A34	_	_	_	_	_		Relay,
		DIN terminal	Yes				111 1, 200 1	_	A44	_	_	_	-	_		
	Diagnostic indication (2-color indicator)	Grommet				_	_	A59W	_	•	_	•	—	_		PLC

- *1 Water-resistant type auto switches can be mounted on the above models, but SMC cannot guarantee water resistance.
- * Lead wire length symbols: 0.5 m Nil (Example) M9NW

Nil

Air cushion

1 m ······ M (Example) M9NWM

3 m L (Example) M9NWL 5 m Z (Example) M9NWZ

- Since there are other applicable auto switches than listed above, refer to page 185 for details.
- The D-A9□/M9□/M9□W/M9□A auto switches are shipped together, but not assembled. (Only the auto switch mounting brackets are assembled before shipment.)

* Solid state auto switches marked with "O" are produced upon receipt of order.

* The adjustable position trunnion (V) mounting bracket only supports D-A9□, M9□, M9□W, and M9□A auto switches.

Basic, Axial foot, Rod flange, Head flange, Single clevis,

Double clevis, Center trunnion, Adjustable position trunnion

C85W C8

C85K | C85-S/T | C85

C85R C85K-S/T

C75W C75

C75-S/T C7

C75K-S/T C75K

CP96 C75R

9642 Sep

Y C96K

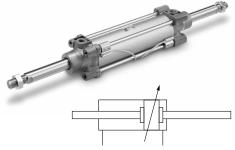
5 C96Y

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Made to A

Related Products





Made to Order

Made to Order (For details, refer to pages 190 to 199.

	(For details, refer to pages 190 to 199.)
Symbol	Specifications
-XA□	Change of rod end shape
-XC14	Change of trunnion bracket mounting position
-XB6	Heat-resistant cylinder (-10 to 150°C)
-XB7	Cold-resistant cylinder (-40 to 70°C)
-XC4	With heavy duty scraper
-XC7	Tie-rod, tie-rod nut, etc. made of stainless steel
-XC10	Dual stroke cylinder/Double rod type
-XC11	Dual stroke cylinder/Single rod type
-XC22	Fluororubber seal
-XC35	With coil scraper
-XC65	Made of stainless steel (Combination of -XC7 and -XC68)
-XC68	Made of stainless steel (with hard chrome plated piston rod)
-XC85	Grease for food processing equipment
-XC88	Spatter-resistant coil scraper, Lube-retainer, grease for welding (Piston rod: Stainless steel 304)
-XC89	Spatter-resistant coil scraper, Lube-retainer, grease for welding (Piston rod: S45C)

Refer to pages 181 to 185 for cylinders with auto switches.

- Auto Switch Proper Mounting Position (Detection at stroke end) and Mounting Height
- Minimum Stroke for Auto Switch Mounting
- · Auto Switch Mounting Brackets/Part No.
- Operating Range

Standard Strokes

Mounting

Specifications

Bore size	Standard stroke	Max.
[mm]	[mm]	stroke
32	25, 50, 80, 100, 125, 160, 200, 250, 320, 400, 500	1000
40	25, 50, 80, 100, 125, 160, 200, 250, 320, 400, 500	1900
50	25, 50, 80, 100, 125, 160, 200, 250, 320, 400, 500, 600	1900
63	25, 50, 80, 100, 125, 160, 200, 250, 320, 400, 500, 600	1900
80	25, 50, 80, 100, 125, 160, 200, 250, 320, 400, 500, 600, 700, 800	1900
100	25, 50, 80, 100, 125, 160, 200, 250, 320, 400, 500, 600, 700, 800	1900
125	_	2000

- * Aside from the standard strokes, intermediate strokes are also available in 1 mm increments and are produced upon receipt of order.
- * Strokes exceeding the max. stroke are available as a special order.

Accessories

Мо	Basic	Foot	Rod flange	Head flange	Single clevis	Double clevis	Center trunnion	Adjustable position trunnion	
Standard	Rod end nut	•	•	•	•	•	•	•	•
Standard	Clevis pin	-	_	_	_	_	•	_	_
	Rod end	•	•	•	•	•	•	•	•
Option	Rod clevis	•	•	•	•	•	•	•	•
	Rod boot	•	•	•	•	•	•	•	•

- * Do not use a rod end (or floating joint) together with a single clevis with a ball joint (or clevis pivot bracket with a ball joint).
- * Refer to pages 169 to 172 for dimensions and part numbers of the accessories.

⚠ Precautions

Be sure to read this before handling the products. Refer to page 219 for safety instructions. For actuator and auto switch precautions, refer to the "Handling Precautions for SMC Products" and the "Operation Manual" on the SMC website: http://www.smcworld.com