ISO Standard (15552)

Air Cylinder: Standard Type

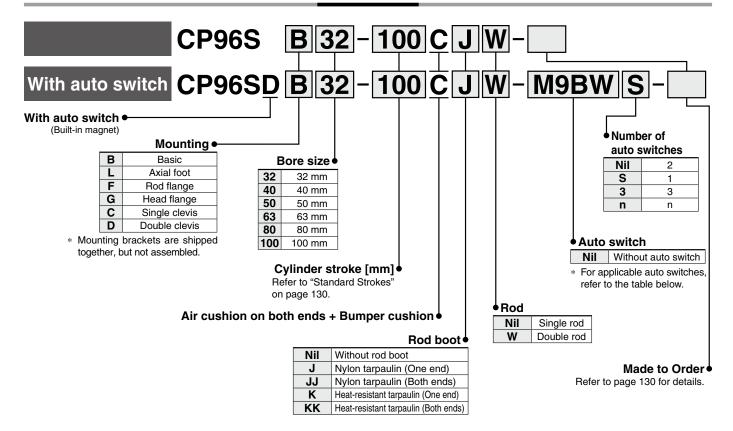
Double Acting, Single/Double Rod

CP96 Series Ø32, Ø40, Ø50, Ø63, Ø80, Ø100



How to Order

The CP96 series, standard type, ø125 is the same as the previous model. For details, refer to the Web Catalog.



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

	Special function	Electrical entry	Indicator	Wiring (Output)	Load voltage			Auto quitab	Lead wire length [m]				Due suive d	Applicable			
Type						DC	AC	Auto switch model	0.5 (Nil)	1 (M)	3 (L)	5 (Z)			load		
switch	_	Grommet		3-wire (NPN)	⊣	5 V, 12 V		M9N		•		0	0	IC	t		
				3-wire (PNP)				M9P	•	•	•	0	0	circuit			
S				2-wire		12 V		M9B	•	•	•	0	0	_			
auto	Diagnostic					3-wire (NPN)		5 V, 12 V		W9NW			•	0	0	IC	Dalasi
a	indication		.	3-wire (PNP)	24 V	24 V 5 V, 12 V	_	M9PW		•		0	0	circuit PLC	Relay,		
state	(2-color indicator)	Grommet		2-wire		12 V		M9BW	•	•	•	0	0	_	FLC		
<u> </u>	Water-resistant (2-color indicator)	Gioilinet		3-wire (NPN)		5 V, 12 V		M9NA*1	0	0	•	0	0	IC			
Solid				3-wire (PNP)				M9PA*1	0	0		0	0	circuit	it		
Ň				2-wire		12 V		M9BA*1	0	0	•	0	0	_			
Reed auto switch	_	Grommet	Yes	3-wire (NPN equivalent)	_	5 V	_	A96	•	_	•	_	_	IC circuit	_		
						12 V	100 V	A93	•	•	•	•	_		Dalasi		
			No	2-wire	24 V		100 V or less	A90	•	_	•	_	_	IC circuit	Relay, 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

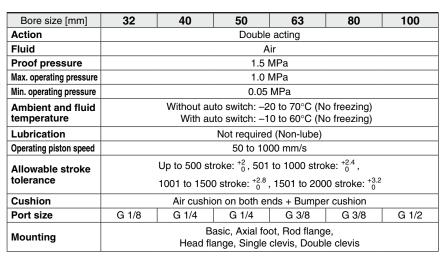
1 m M (Example) M9NWM

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

- * Solid state auto switches marked with "O" are produced upon receipt of order.
- * Since there are other applicable auto switches than listed above, refer to page 146 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.)
- The D-Y59A, Y69A, Y7P, Y7 W, Z7 , Z80 cannot be mounted on the CP96 series. Moreover, the D-M9□□ and A9□ auto switches cannot be mounted on square groove of the CP96 series.



Specifications



Standard Strokes

Bore size [mm]	Standard stroke [mm]	Max. stroke*1
32	25, 50, 80, 100, 125, 160, 200, 250, 320, 400, 500	2000
40	25, 50, 80, 100, 125, 160, 200, 250, 320, 400, 500	2000
50	25, 50, 80, 100, 125, 160, 200, 250, 320, 400, 500, 600	2000
63	25, 50, 80, 100, 125, 160, 200, 250, 320, 400, 500, 600	2000
80	25, 50, 80, 100, 125, 160, 200, 250, 320, 400, 500, 600, 700, 800	2000
100	25, 50, 80, 100, 125, 160, 200, 250, 320, 400, 500, 600, 700, 800	2000

Intermediate strokes are available.

Made to Order (For details, refer to pages 148 to 155.)

	Mounting	Basic	Foot	Rod flange	Head flange	Single clevis	Double clevis	
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 137 to 140 for dimensions and part numbers of the accessories.

-XB6 Heat-resistant cylinder (-10 to 150°C) -XC4 With heavy duty scraper Tie-rod, tie-rod nut, etc. made of -XC7 stainless steel -XC10 Dual stroke cylinder/Double rod type -XC11 Dual stroke cylinder/Single rod type -XC22 Fluororubber seal With coil scraper -XC35 Made of stainless steel (Combination of -XC7 and -XC68) -XC65

Change of rod end shape

Specifications

-XC68 Made of stainless steel (with hard chrome plated piston rod)

-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 145 and 146 for cylinders with auto switches.

- · Auto Switch Proper Mounting Position (Detection at stroke end)
- · Minimum Stroke for Auto Switch Mounting
- · Operating Range

Made to Order

Symbol

-XA□

· How to Mount and Move the Auto Switch

⚠ Precautions

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

SMC

C85W C86

C85K C85-S/T C

C85R (85K-S/T

T C75W C75

5K C75-S/T

C75K-S/T C

CP96 C75R

396 CP96K

Y C96K

55 C9

Switch

d Made to

Related

^{*1} Please consult with SMC for longer strokes.