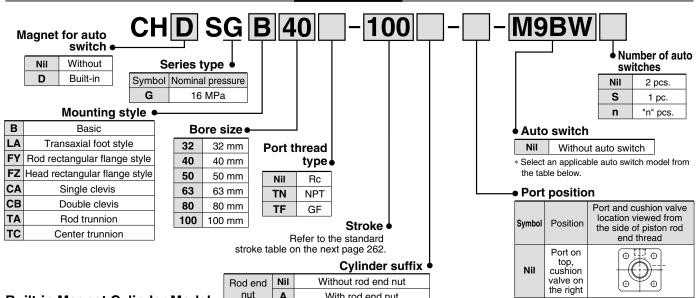
ISO Standard Hydraulic Cylinder Series CHSG

16 MPa

Ø32, Ø40, Ø50, Ø63, Ø80, Ø100

How to Order



Built-in Magnet Cylinder Model

If a built-in magnet cylinder without auto switch is required, there is no need to enter the symbol for the auto switch.

(Example) CHDSGB50-100

	Rod end	Nil	Without rod end nut					
	nut	Α	With rod end nut					
	Presence of cusion	Nil	With cushion on both sides					
		N	Without cushion					
		R	With front bumper					
		Н	With rear bumper					

Note) When more than one symbol is to be specified, indicate them in alphabetical order.

Applicable Auto Switches: Refer to pages 347 to 406 for further details on each auto switch.

Φ	Special	Elec-	light	Wiring	Load voltage				Lead wire length (m)			Pre-	Applicable												
Type	function	trical	ndicator light	(output)	DC		AC	model		0.5	1	3	5	wired con-	lo										
	Tariotion	entry	Indic	(output)			ΛΟ		ø40 to ø80	ø100	(Nil)	(M)	(L)	(Z)	nector										
				3-wire (NPN)				M	I9N	_		•		0											
				O WIIC (IVI IV)		5 V, 12 V			_	F59		_		0		IC									
				3-wire (PNP)	24 V	1 '	_	M	I9P	_		•		0	0	circuit									
				5-wile (Fivi)	24 V				_	F5P		_		0	0										
						12 V		M	19B	_				0	0										
ي ا				2-wire		12 V				J59		_		\circ] — [
switch	Diagnostic indication				_	_	100 V, 200 V		J51			_		0											
S	(2-color display)		et	3-wire (NPN)				MS	WW	_				0	0										
阜		Grommet		5-Wile (IVI IV)		5 V, 12 V				F59W		_		\circ			Relay								
sta	Water resistant (2-color indicator)	aronnince		3-wire (PNP)		J V, 12 V		MS	PW	_				\bigcirc	0		t PLC								
9				o wile (i ivi)						F5PW		_		0	0										
Solid state				2-wire		12V		M9BW	_		•		\circ	0	l _ l										
		or indicator) 24 3-wire (NPN) 3-wire (PNP) 2-wire				24 V	/				J59W		_		0	0									
					3-wire (NPN)		5 V, 12 V		MS	ANG	_		0		0		IC								
				3-wire (PNP)		0 1, 12 1	_		9PA	_		0		\circ	0	circuit									
				12 V		M	9BA	_	0	0		\circ		_											
										F5BA	Q	_	•	Q	<u> </u>										
	Diagnostic output (2-color display)			4-wire (NPN)			5 V, 12 V			F59F			_	•	\circ	0	IC circuit								
ے			Yes	3-wire (NPN equiv.)	_	5 V	_	_	Z 7			_		_		IC circuit									
Reed switch		Grommet No Yes 2-wire No 24 V 12 V 12 V 100 V or less — 200 V or less —	Z 7			_		_	_																
			Grommet No			12 V		_	Z8			_		_	_	IC circuit	Relay								
			No		2-wire 24 V	24 V	4 V			A5			_	lacksquare				PLC							
				_			200 V or less	_	A			-		_		_	-0								
	Diagnostic output (2-color display)		Y									Yes			_	_	_	A59	9W		<u> </u>		_		

- * 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 " ()" are produced upon receipt of order.
- * Besides the models in the above table, there are some other auto switches that are applicable. For more information, refer to page 269.
- * For details about auto switches with pre-wired connector, refer to pages 389 and 390.
- * D-M9□, M9□W, M9□AL, Z7□, Z80 auto switches are shipped together, (not assembled). (Only auto switch mounting brackets are packed assembled.)

Port position					
Symbol	Position	Port and cushion valve location viewed from the side of piston rod end thread			
Nil	Port on top, cushion valve on the right				
A	Port on top, cushion valve on the left	0 11 0			
В	Port on top, cushion valve down	0 0			
С	Port on the right, cushion valve down	0 0			
D	Port on the right, cushion valve on top	0 0			
E	Port on the right, cushion				

CHQ

CHK

CHN

CHM

CHS□

CH2

CHA

Related Equipment

Piping port Cushion valve

Note 1) Refer to table 1 for manufacturability.

the left

Note 2) Diagrams illustrate the view from the rod on the left side of the cylinder dimensions. Note 3) For mounting types FY, FZ, or TA, indicate port position with the symbol B.

Table 1 Manufacturability Check List by Mounting Type and Port Position

Mounting Port bracket position	В	LA	FY FZ	CA CB	TA	тс
Nil	0	0	0	0	_	0
Α	0	0	0	0	_	0
В	0	0	0	0	0	0
С	Note)	_	0	0	-	0
D	Note)	_	0	0	_	0
E	Note)	_	0	0	_	0

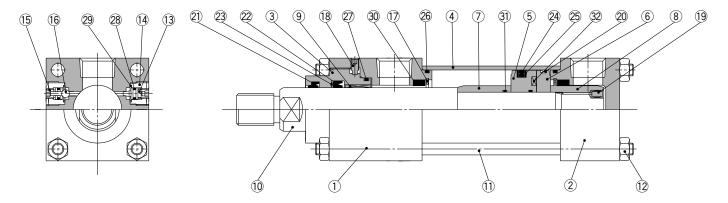
○: Standard product ○: Made to order

 - : Not available due to size limitation.
 Note) Each of C, D, E is same as the Nil, A, B just turned.



Construction

CH SGB



Parts List

No.	Description	Material
1	Rod cover	Carbon steel
2	Head cover	Carbon steel
3	Seal holder	Carbon steel
4	Cylinder tube	Stainless steel
5	Piston	Stainless steel
6	Magnet plate	Stainless steel
7	Cushion ring	Carbon steel
8	Cushion ring nut	Carbon steel
9	Bushing	Copper alloy
10	Piston rod	Carbon steel
11	Tie-rod	Chromium molybdenum steel
12	Tie-rod nut	Carbon steel
13	Cushion valve	Alloy steel
14	Valve holder	Carbon steel
15	Air release valve	Alloy steel
16	Check ball	Bearing steel

No.	Description	Material
17	Retaining ring	Carbon tool steel
18	Set screw	Alloy steel
19	Pin	Stainless steel
20	Wear ring	Resin
21	Scraper	NBR
22	Rod seal	NBR
23	Back-up ring	Resin
24	Piston seal	NBR
25	Back-up ring	Resin
26	Cylinder tube gasket	NBR
27	Holder gasket	NBR
28	Valve seal	NBR
29	Valve holder gasket	NBR
30	Cushion seal	_
31	Piston gasket	NBR
32	Magnet	_

Replacement Parts: Seal Kit

Bore size (mm)	Seal kit no.
32	CHSG32-PS
40	CHSG40-PS
50	CHSG50-PS
63	CHSG63-PS
80	CHSG80-PS
100	CHSG100-PS

 $[\]ast$ Seal kit consists of items @) to & and \mathfrak{V} , and can be ordered by using the seal kit number for each bore size.

CHQ

CHK□

CHN

CHM

CHS□ CH2□

CHA

Related Equipment

