

Hydraulic Cylinder

CHN Series

7 MPa
 $\varnothing 20$, $\varnothing 25$, $\varnothing 32$, $\varnothing 40$

How to Order

CHN **L** **25** - **100** - **M9BW** **□** - **C**

Mounting type

B	Basic type
L	Axial foot type
F	Rod flange type
G	Head flange type
C	Single clevis type

Bore size

20	20 mm
25	25 mm
32	32 mm
40	40 mm

Auto switch mounting bracket^{Note}

Note) This symbol is indicated when the D-A9□ or M9□ type auto switch is specified.
 This mounting bracket does not apply to other auto switches (D-C□ and H7□, etc.)
 Applicable to $\varnothing 20$ only.

Number of auto switches

Nil	2 pcs.
S	1 pc.
n	"n" pcs.

Auto switch type

Nil	Without auto switch (built-in magnet)
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* Select applicable auto switches from the table below.

Cylinder stroke (mm)

Refer to the standard stroke table on page 298.

Applicable Auto Switches/Refer to pages 431 to 490 for further details on each auto switch.

Type	Special function	Electrical entry	Indicator light	Wiring (output)	Load voltage		Auto switch model		Lead wire length (m)					Pre-wired connector	Applicable load			
					DC	AC	Perpendicular	In-line	0.5 (Nil)	1 (M)	3 (L)	5 (Z)	None (N)					
Solid state auto switch	—	Grommet	—	3-wire (NPN)	5 V, 12 V	—	M9NV	M9N	●	—	●	○	—	○	IC circuit	Relay PLC		
				3-wire (PNP)			M9PV	M9P	●	—	○	○	—	○				
		Connector	2-wire	12 V	M9BV	M9B	●	—	●	○	—	○	—					
			Terminal conduit	2-wire	5 V, 12 V	—	H7C	●	—	●	●	—	○	—				
	Diagnostic indication (2-color indicator)	Grommet	Yes	—	3-wire (NPN)	5 V, 12 V	—	M9NWV	M9NW	●	●	●	○	—	○		IC circuit	
					3-wire (PNP)			M9PWV	M9PW	●	●	●	○	—	○			
		Grommet	Yes	—	24 V	2-wire	12 V	—	M9BWW	M9BW	●	●	●	○	—		○	—
						3-wire (NPN)			M9NAV^{*1}	M9NA^{*1}	○	○	●	○	—		○	
		Grommet	Yes	—	24 V	3-wire (PNP)	5 V, 12 V	—	M9PAV^{*1}	M9PA^{*1}	○	○	●	○	—		○	IC circuit
						2-wire			M9BAV^{*1}	M9BA^{*1}	○	○	●	○	—		○	
With diagnostic output (2-color indicator)	Grommet	Yes	—	4-wire (NPN)	5 V, 12 V	—	H7NF	—	●	—	○	—	○	IC circuit				
Reed auto switch	—	Grommet	Yes	3-wire (NPN equiv.)	—	5 V	—	A96V	A96	●	●	●	—	—	—	IC circuit	Relay PLC	
							100 V	A93V^{*2}	A93	●	●	●	—	—	—			
							100 V or less	A90V	A90	●	—	●	—	—	—			
							100 V, 200 V	—	B54	●	—	●	●	—	—			
							200 V or less	—	B64	●	—	●	—	—	—			
							—	—	C73C	●	—	●	●	—	—			
							24 V or less	—	C80C	●	—	●	●	—	—			
							—	—	A33	—	—	—	—	●	—			
							100 V, 200 V	—	A34	—	—	—	—	●	—			
							—	—	A44	—	—	—	—	●	—			
—	—	B59W	●	—	●	—	—	—										

*1 Water resistant type auto switches can be mounted on the above models, but in such case SMC cannot guarantee water resistance. --(Applicable to $\varnothing 20$ only.)

Consult with SMC regarding water resistant types with the above model numbers.

*2 1 m type lead wire is only applicable to D-A93.

* 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

None N (Example) H7CN

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

* You do not need to specify "N" (i.e., without lead wire) for D-A3□, D-A44, D-G39, and D-K39.

This is the only standard specification automatically available for these models.

* D-A9□V, M9□V, M9□WV, and M9□A(V) models cannot be mounted on $\varnothing 25$ to $\varnothing 40$.

* Since there are applicable auto switches other than listed, refer to page 310 for details.

* For details about auto switches with pre-wired connector, refer to pages 474 and 475.

* D-A9□, M9□, and M9□W type auto switches are shipped with the hydraulic cylinder (but not assembled). (However, they are auto switch mounting brackets are shipped with the mounting brackets mounted already.)