

# Heavy Duty Stopper Cylinder

## RS2H Series

ø50, ø63, ø80

RoHS

### How to Order

**RS2H50** **30** **D** **L** **M9BW**

**Bore size**

50	50 mm
63	63 mm
80	80 mm

**Port thread type**

NII	Rc
TN	NPT
TF	G

**Piping direction**

**Flange side**

**Axial direction (tube)**

**Cylinder stroke**

30	30 mm (ø50, 63)
40	40 mm (ø80)

**Action**

D	Double acting
B	Double acting spring type
T	Single acting/spring extend

**Roller material**

L	Resin
M	Carbon steel

**Option<sup>Note 1)</sup>**

NII	Without option
D	With lock mechanism
C	With cancel cap
S	With lever detection switch <sup>Note 2)</sup>

**Number of auto switches (auto switch number mounted)**

NII	2 pcs.
S	1 pc.

**Made to Order Specifications**  
For details, refer to page 595.

**Auto switch**

NII	Without auto switch (Built-in magnet)
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\*For applicable auto switches, refer to the table below.  
\*Auto switches are shipped together, (but not assembled).

**Positional relationship of lever and port**

NII	Transfer direction ↓ Port	Q	Port ↑ Transfer direction
P	Port ↑ Transfer direction	R	Transfer direction → Port

### Applicable Auto Switches/Refer to pages 941 to 1067 for further information on auto switches.

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)				
Solid state auto switch	—	Grommet	Yes	3-wire (NPN)	24 V	—	M9NV	M9N	●	●	●	○	○	IC circuit	Relay, PLC	
	Diagnostic indication (2-color display)			3-wire (PNP)			5 V, 12 V	M9PV	M9P	●	●	●	○			○
				2-wire			12 V	M9BV	M9B	●	●	●	○			○
				3-wire (NPN)			5 V, 12 V	M9NVW	M9NW	●	●	●	○			○
				3-wire (PNP)			12 V	M9PWW	M9PW	●	●	●	○			○
	Water-resistant (2-color display)			2-wire			12 V	M9BWW	M9BW	●	●	●	○			○
				3-wire (NPN)			5 V, 12 V	M9NAV <sup>*1</sup>	M9NA <sup>*1</sup>	○	○	○	○			○
				3-wire (PNP)			12 V	M9PAV <sup>*1</sup>	M9PA <sup>*1</sup>	○	○	○	○			○
				2-wire			12 V	M9BAV <sup>*1</sup>	M9BA <sup>*1</sup>	○	○	○	○			○
	Magnetic field resistant (2-color display)			2-wire (Non-polar)			—	—	P3DWA	●	—	●	●			○
Reed auto switch	—	Grommet	Yes	3-wire (NPN equivalent)	—	5 V	—	A96V	A96	●	—	●	—	IC circuit	—	
				No	2-wire	24 V	12 V	100 V	A93V <sup>*2</sup>	A93	●	●	●	—	—	Relay, PLC
							5 V, 12 V	100 V or less	A90V	A90	●	—	●	—	—	IC circuit
							—	—	—	—	—	—	—	—	—	—

\*1 Water resistant type auto switches can be mounted on the above models, but in such case SMC cannot guarantee water resistance.

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.....NII (Example) M9NW \*Solid state auto switches marked with a "○" symbol are produced upon receipt of order.  
1 m.....M (Example) M9NWM  
3 m.....L (Example) M9NWL  
5 m.....Z (Example) M9NWX

\*Since there are other applicable auto switches than listed, refer to page 599 for details.

\*For details about auto switches with pre-wired connector, refer to pages 1014 and 1015.

\*Auto switches are shipped together, (but not assembled).