

Heavy Duty Stopper Cylinder

Series *RSH/RS1H*

ø20, ø32 ø50, ø63, ø80

How to Order

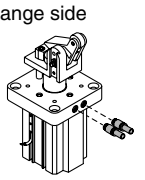
Heavy Duty Stopper Cylinder ø20, ø32

Heavy Duty Stopper Cylinder ø50, ø63, ø80

Piping direction

Flange side

Nil



Positional relationship of lever and port

RSH20

Direction of transfer

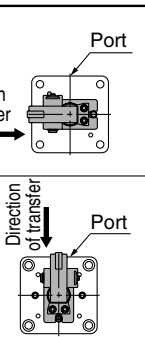
Port

Nil

RSH32

Direction of transfer

Port



Bore size

20	20 mm
32	32 mm

Cylinder stroke

15	15 mm (RSH20)
20	20 mm (RSH32)

Order Code Example 1: RSH 32 - 20 D L - M9W

Order Code Example 2: RS1H 50 - 30 D L - M9W

Bore size

50	50 mm
63	63 mm
80	80 mm

Port thread type

Nil	M*
	Rc
TN	NPT
TF	G

*The tube I.D. of 20 is only available to port size M screws.

Cylinder stroke

30	30 mm (RS1H50, 63)
40	40 mm (RS1H80)

Action

D	Double acting type
B	Double acting spring type
T	Single acting/Spring extended

Roller material

L	Resin
M	Carbon steel

Option Note 1)

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

Number of auto switches
(auto switch number mounted)

Nil	2 pcs.
S	1 pc.

Auto switch

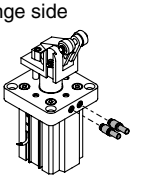
Nil	Without auto switch (Built-in magnet)
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*Refer to page 1405 for auto switch model numbers.

Piping direction

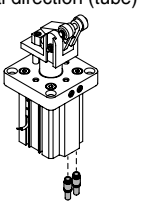
Flange side

Nil



Axial direction (tube)

A

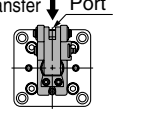


Positional relationship of lever and port

Direction of transfer

Port

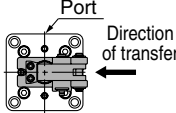
Nil



P

Port

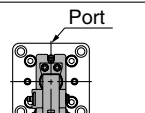
Direction of transfer



Q

Port

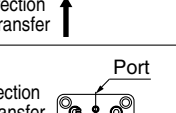
Direction of transfer



R

Port

Direction of transfer



Note 1) Options can be combined. Indicate the part No. according to the priority order of D.C.S.

Note 2) **Lever detection switch type**

Type	Applicable model
E2E-X1C1	RSH 20, 30
E2E-X2D1-N	RS1H 50, 63, 80

Heavy Duty Stopper Cylinder *Series RSH/RS1H*

Applicable auto switches/Refer to pages 1719 to 1827 for detailed auto switch specifications.

Type	Special function	Electrical entry	Indicator light	Wiring (output)	Load voltage		Auto switch models		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 switch	—	Grommet	Yes	3-wire (NPN)	24 V	5 V, 12 V	—	M9NV	M9N	●	●	●	○	○	IC circuit	Relay, PLC
	3-wire (PNP)			M9PV				M9P	●	●	●	○	○			
	2-wire			M9BV				M9B	●	●	●	○	○			
	Diagnostic indication (2-color display)			3-wire (NPN)				M9NWV	M9NW	●	●	●	○	○	IC circuit	
	3-wire (PNP)			M9PWV				M9PW	●	●	●	○	○			
	Water resistance (2-color display)			2-wire				M9BWV	M9BW	●	●	●	○	○	—	
				3-wire (NPN)				M9NAV	M9NA	○	●	●	○	○	IC circuit	
				3-wire (PNP)				M9PAV	M9PA	○	●	●	○	○		
				2-wire				M9BAV	M9BA	○	●	●	○	○	—	
Reed switch	—	Grommet	Yes	3-wire (NPN equiv)	—	5 V	—	—	Z76	●	—	●	—	—	IC circuit	—
			No	2-wire	24 V	12 V	100 V	—	Z73	●	—	●	—	—	—	Relay, PLC
							100 V or less	—	Z80	●	—	●	—	—	—	

* 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 a "○" symbol are produced upon receipt of order.
 * D-A9□/A9□V types cannot be mounted.

* Refer to page 1411 since there are applicable auto switches other than listed.
 * Refer to pages 1784 and 1785 for the details of auto switches with a pre-wired connector.
 * Auto switches are shipped together (not assembled).

Specifications

Model	RSH		RS1H		
Bore size (mm)	20	32	50	63	80
Action	Double acting, Double acting spring, Single acting (Spring extended)				
Style of rod end	Lever with built-in shock absorber type				
Fluid	Air				
Proof pressure	1.5 MPa				
Max. operating pressure	1.0 MPa				
Ambient and fluid temperature	-10 to 60°C (No freezing)				
Lubrication	Not required (non-lube)				
Cushion	Rubber bumper				
Stroke length tolerance	+1.4 0				
Mounting	Flange				
Port size Rc, NPT, G	M5 x 0.8	1/8	1/8	1/4	1/4
	—	1/8	1/8	1/4	1/4
	—	1/8	1/8	1/4	1/4

Bore size, Standard strokes

(mm)

Model	Bore size (mm)	Standard stroke
RSH	20	15
	32	20
RS1H	50	30
	63	30
	80	40

Mass

(kg)

Action	Rod end configuration	Bore size (mm)	Mass
Double acting type Double acting spring type Single acting spring extended	Lever with built-in shock absorber type	20	0.41
		32	0.75
		50	2.03
		63	3.56
		80	6.33

RSQ

RSQ

RS□

MI□

D-□

-X□

Individual
-X□