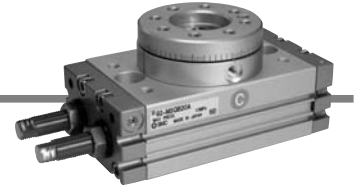


Rotary Table/Rack & Pinion Style

92-MSQ Series

Size: 10, 20, 30, 50, 70, 100, 200

How to Order



Basic type

92-MSQ B 10 A-M9BWL

Series compatible with secondary batteries

92	Material restriction + Vacuum port for vacuum suction
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Note) Restricted material is used in part.

Size

10
20
30
50
70
100
200

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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*Refer to the table below for auto switch types.

A	With adjustment bolt
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Applicable Auto Switch/Refer to pages 62 to 65 for detailed auto switch specification.

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				
Solid state switch	Diagnostic indication (2-color display)	Grommet	Yes	2-wire	24 V	12 V	M9BWV	M9BW	●	●	—	Relay, PLC
Reed switch	—		No				—	A90	●	—	IC circuit	

*Additional symbols for auto switch: Lead wire length 3 m.....L
With pre-wired connector.....SDPC
Example: M9BWL
M9BWSDPC

*Order part numbers for auto switches alone are D-M9BW(V)L-900, D-M9BW(V)SDPC-900 and D-A90L-900.

*The auto switch is shipped together but not assembled.

Directional Control Valves

Actuators

Air Grippers

Air Preparation Equipment

Air Filters/Pressure Control Equipment

Flow Control Related Products

Vacuum Equipment

Detection Switches

Auto Switches

Parallel Style Air Gripper with Dust Cover

90-MHZJ2 Series

How to Order



90-MHZJ2-16 D F-M9BW

Series compatible with secondary batteries
90 Material restriction

Number of fingers
2 2 fingers

Bore size

10	10 mm
16	16 mm
20	20 mm
25	25 mm

Action
D Double acting

Auto switch
Nil Without auto switch (Built-in magnet)
 *For the applicable auto switch model, refer to the table below.

Dust cover type
F Fluororubber (FKM)

Number of auto switches

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

*Specifications and dimensions for the 90-series are the same as standard products.

Applicable Auto Switch/Refer to pages 62 to 65 for further information on the auto switch.

Type	Special function	Electrical entry	Indicator light	Wiring (Output)	Load voltage			Auto switch model		Lead wire length (m)	Applicable model	Applicable load	
					DC	AC		Perpendicular	In-line				
Solid state switch	Diagnosis (2-color indicator)	Grommet	Yes	2-wire	24 V	12 V	—	M9BWV	M9BW	●	●	—	Relay, PLC

*Additional symbols for auto switch: Lead wire length 3 m.....L Example: M9BWL
 With pre-wired connector.....SDPC M9BWSDPC

*Order part numbers for auto switches alone are D-M9BW(V)L-900 and D-M9BW(V)SDPC-900.

*The auto switch is shipped together but not assembled.

Note) Take note of hysteresis with 2-color indication type auto switches. Refer to page 438 in "Best Pneumatic No.4" for auto switch specifications.

If an auto switch is mounted where the green light is lit and the air gripper has a short stroke, the auto switch may detect an unnecessary portion due to its operating range. Check that auto switch mounting is correct and adjust if necessary. This also applies to when the red light is lit.

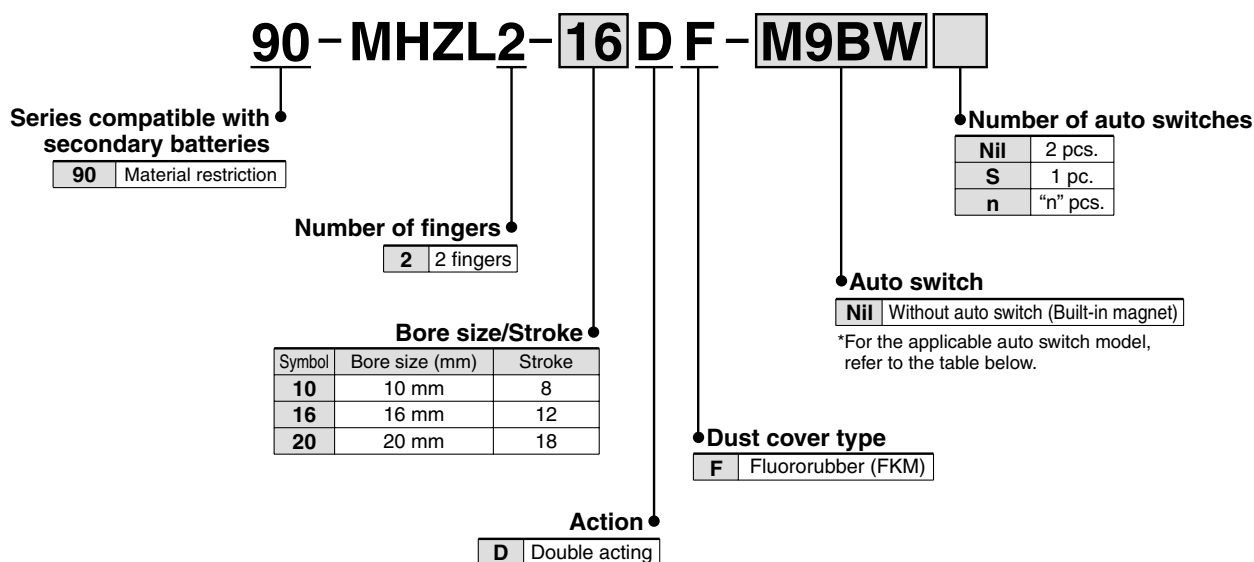
*Through-hole mounting is not used when mounting the auto switch for the 90-MHZJ2-10D.

*When using the perpendicular auto switch for ø10, the fitting and auto switch could mutually interfere. Use the extension fitting shipped in the package to avoid interference.

Parallel Style Air Gripper/Long Stroke Type

90-MHZL2 Series

How to Order



Applicable Auto Switch/Refer to pages 62 to 65 for further information on the 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				
Solid state switch	Diagnostic (2-color indication)	Grommet	Yes	2-wire	24 V	12 V	—	M9BWV	M9BW	●	●	—	Relay, PLC

*Additional symbols for auto switch: Lead wire length 3 m.....L Example: M9BWL
With pre-wired connector.....SDPC M9BWSNPC

*Order part numbers for auto switches alone are D-M9BW(V)L-900 and D-M9BW(V)SDPC-900.

*The auto switch is shipped together but not assembled.

Note) Take note of hysteresis with 2-color indication type auto switches. Refer to page 438 in "Best Pneumatic No.4" for auto switch specifications.

If an auto switch is mounted where the green light is lit and the air gripper has a short stroke, the auto switch may detect an unnecessary portion due to its operating range. Check that auto switch mounting is correct and adjust if necessary. This also applies to when the red light is lit.

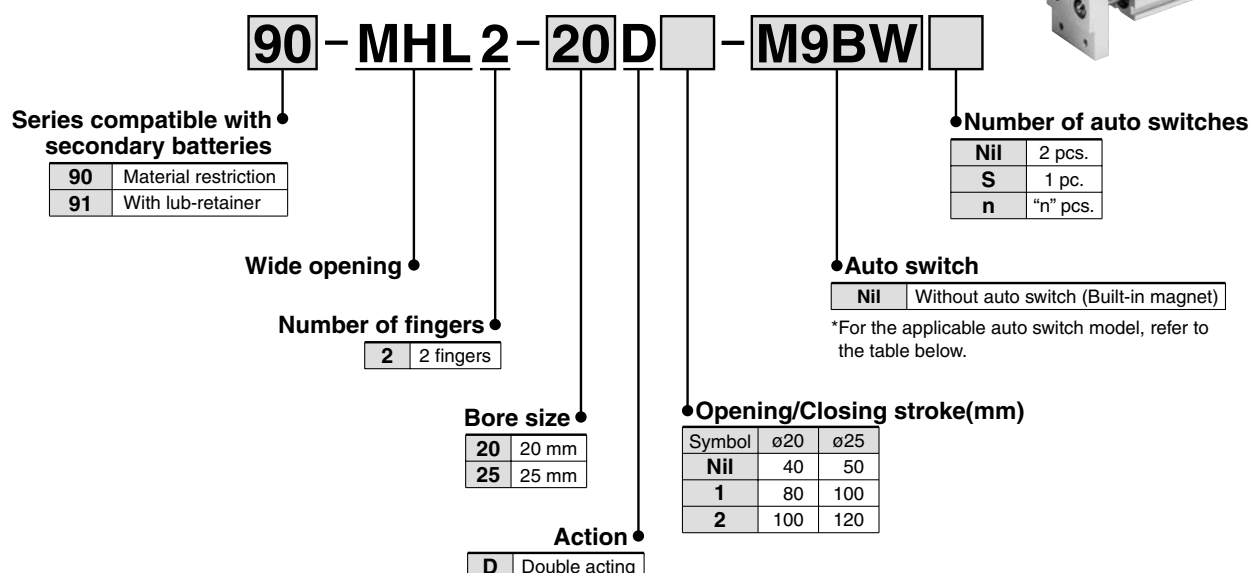
*When using the perpendicular auto switch for ø10, the fitting and auto switch could mutually interfere. Use the extension fitting shipped in the package to avoid interference.

Parallel Style Air Gripper: Wide Type

90-91-MHL2 Series

ø20, ø25

How to Order



*Specifications and dimensions for the 90-series are the same as standard products.

Applicable Auto Switch/Refer to pages 62 to 65 for further information on the 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				
Solid state switch	Diagnostic (2-color indication)	Grommet	Yes	2-wire	24 V	12 V	—	M9BWV	M9BW	●	●	—	Relay, PLC
								Y7BWV	Y7BW	●	—		

*Additional symbols for auto switch: Lead wire length 3 m.....L Example: M9BWL
With pre-wired connector.....SDPC M9BWSDPC

*Order part numbers for auto switches alone are D-M9BW(V)L-900, D-M9BW(V)SDPC-900 and DY7BW(V)L-900.

*The auto switch is shipped together but not assembled.

*For the M9 auto switch, the auto switch mounting bracket model 90-BMG2-012 is shipped with one for each auto switch.

Note 1) Take note of hysteresis with 2-color indication type auto switches. Refer to page 487 in "Best Pneumatic No.4" for auto switch specifications.

If an auto switch is mounted where the green light is lit and the air gripper has a short stroke, the auto switch may detect an unnecessary portion due to its operating range. Check that auto switch mounting is correct and adjust if necessary. This also applies to when the red light is lit.

Note 2) The mounting bracket (90-BMG2-012) is required to mount the M9 auto switch.

Parallel Style Air Gripper

90-MHS Series

Ø16, Ø20, Ø25

How to Order



90 - MHS 3 - 20 **D** - M9BW

- Series compatible with secondary batteries**

90	Material restriction
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- Number of fingers**

3	3 fingers
4	4 fingers
- Bore size**

16	16 mm
20	20 mm
25	25 mm
- Action**

D	Double acting
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- Auto switch**

Nil	Without auto switch (Built-in magnet)
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*For the applicable auto switch model, refer to the table below.
- Number of auto switches**

Nil	2 pcs.
S	1 pc.

*Specifications and dimensions for the 90-series are the same as standard products.

Applicable Auto Switch/Refer to pages 62 to 65 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				
Solid state switch	Diagnostic (2-color indication)	Grommet	Yes	2-wire	24 V	12 V	—	M9BWV	M9BW	●	●	—	Relay, PLC

*Additional symbols for auto switch: Lead wire length 3 m.....L Example: M9BWL
With pre-wired connector.....SDPC M9BWSDPC

*Order part numbers for auto switches alone are D-M9BW(V)L-900 and D-M9BW(V)SDPC-900.

*The auto switch is shipped together but not assembled.

Note) Take note of hysteresis with 2-color indication type auto switches. Refer to page 606 in "Best Pneumatic No.4" for auto switch specifications.

If an auto switch is mounted where the green light is lit and the air gripper has a short stroke, the auto switch may detect an unnecessary portion due to its operating range. Check that auto switch mounting is correct and adjust if necessary. This also applies to when the red light is lit.