

# Parallel Style Air Gripper With Dust Cover

## Series MHSJ3

Size: 16, 20, 25, 32, 40, 50, 63, 80

### How to Order

With dust cover

Number of fingers

3 3 fingers

Bore size

16	16 mm	40	40 mm
20	20 mm	50	50 mm
25	25 mm	63	63 mm
32	32 mm	80	80 mm

Dust cover type

Nil	Chloroprene rubber (CR)
F	Fluoro rubber (FKM)
S	Silicon rubber (Si)

Action

D	Double acting
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Number of auto switches

Nil	2 pcs.
S	1 pc.

Auto switch

Nil	Without auto switch (Built-in magnet)
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Applicable Auto Switch/Refer to page 12-13-1 for further information on auto switches

Type	Special function	Electrical entry	Indicator light	Wiring (Output)	Load voltage		Auto switch model		Lead wire length (m)*			Flexible lead wire (-61)	Applicable load	Applicable model		Pre-wire connector	
					DC	AC	Electrical entry		0.5 (Nil)	3(L)	5(Z)			ø16	ø20 to ø80		
							Perpendicular	In-line									
Solid state switch	—	Grommet	Yes	3-wire (NPN)	24 V	5 V	—	M9NV	M9N	●	●	○	Standard	Relay, PLC	●	●	○
				12 V		M9PV		M9P	●	●	○	●			●	○	
				3-wire (PNP)		M9BV		M9B	●	●	○	●			●	○	
	2-wire			5 V	F9NWV	F9NW	●	●	○	○	○	●	●		○		
	3-wire (NPN)				F9PWV	F9PW	●	●	○	○	○	●	●		○		
	3-wire (PNP)				F9BWV	F9BW	●	●	○	○	○	●	●		○		
	Diagnostic indication (2-color indication)			2-wire	12 V	—	F9BA	—	●	○	○	○	●		●	○	
	Water resistant (2-color indication)																

\* Lead wire length symbols: 0.5 m ..... Nil (Example) M9BV  
3 m ..... L (Example) M9NL  
5 m ..... Z (Example) Y59AZ

\* Auto switches marked with a "○" symbol are produced upon receipt of order.

Note) Take note of hysteresis with 2-color indication type switches. Refer to page 12-7-62 for detailed auto switch specifications.



Refer to page 12-13-25 for solid state switch with pre-wire connector.

### Model/Specifications



Model		MHSJ3-16D	MHSJ3-20D	MHSJ3-25D	MHSJ3-32D	MHSJ3-40D	MHSJ3-50D	MHSJ3-63D	MHSJ3-80D	
Bore size (mm)		16	20	25	32	40	50	63	80	
Fluid		Air								
Operating pressure (MPa)		0.2 to 0.6			0.1 to 0.6					
Ambient and fluid temperature (°C)		−10 to 60								
Repeatability (mm)		±0.01								
Max. operating frequency (c.p.m.)		120			60					30
Lubrication		Not required								
Action		Double acting								
Effective gripping force (N) at 0.5 MPa <sup>(1)</sup>	External grip	9	21	36	62	97	155	280	400	
	Internal grip	16	28	47	82	130	204	359	525	
Opening/Closing stroke (mm) (dia.)		4	4	6	8	8	12	16	20	
Weight (g)		95	150	230	440	620	1,050	1,800	3,200	

Note 1) Values for ø16 to ø25 are with gripping point L = 20 mm, and for ø32 to ø63 with gripping point L = 30 mm, and ø80 is L = 50 mm. Refer to "Effective Gripping Force" data on pages 12-7-25 through 12-7-27 for the gripping force at each gripping position.

Note 2) Open and closed diameter values apply for external gripping of workpieces.