

Parallel Style Air Gripper/2-Finger Type

Series MHS2

ø16, ø20, ø25, ø32, ø40, ø50, ø63

How to Order

Bore size

ø16 to ø25 **MHS2 - 20 D - M9BW** □ - □

Number of fingers
2 2 fingers

Bore size
16 16 mm
20 20 mm
25 25 mm

Action
D Double acting

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

Number of auto switches
Nil 2 pcs.
S 1 pc.

Made to Order
Refer to page 545 for details.

Applicable Auto Switch/Refer to pages 761 to 809 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)		IC circuit	Relay, PLC		
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	●	●	●	○				
				3-wire (NPN)				M9N WV	M9N W	●	●	●	○	○			IC circuit
				3-wire (PNP)				M9P WV	M9P W	●	●	●	○	○			
				2-wire				M9B WV	M9B W	●	●	●	○	○			
	Diagnosis (2-color indication)	Grommet	Yes	3-wire (NPN)	24 V	5 V, 12 V	—	M9N WV	M9N W	●	●	●	○	○	IC circuit	Relay, PLC	
				3-wire (PNP)				M9P WV	M9P W	●	●	●	○	○			
				2-wire				M9B WV	M9B W	●	●	●	○	○			
				3-wire (NPN)				M9N AV	M9N A	○	○	●	○	○			IC circuit
				3-wire (PNP)				M9P AV	M9P A	○	○	●	○	○			
				2-wire				M9B AV	M9B A	○	○	●	○	○			
Water resistant (2-color indication)	Grommet	Yes	3-wire (NPN)	24 V	5 V, 12 V	—	M9N WV	M9N W	○	○	●	○	○	IC circuit	Relay, PLC		
			3-wire (PNP)				M9P WV	M9P W	○	○	●	○	○				
			2-wire				M9B WV	M9B W	○	○	●	○	○				
			3-wire (NPN)				M9N AV	M9N A	○	○	●	○	○			IC circuit	
			3-wire (PNP)				M9P AV	M9P A	○	○	●	○	○				
			2-wire				M9B AV	M9B A	○	○	●	○	○				

* Lead wire length symbols: 0.5 m Nil (Example) M9N
1 m M (Example) M9NWM
3 m L (Example) M9NL
5 m Z (Example) M9NZ

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

Note 1) Take note of hysteresis with 2-color indication type switches. Refer to "Auto Switch Hysteresis" on page 606.
Note 2) Refer to pages 761 to 809 for further information on auto switches.

Bore size

ø32 to ø63 **MHS2 - 50 D - M9BW** □ - □

Number of fingers
2 2 fingers

Bore size
32 32 mm
40 40 mm
50 50 mm
63 63 mm

Action
D Double acting

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

Number of auto switches
Nil 2 pcs.
S 1 pc.

Made to Order
Refer to page 545 for details.

Applicable Auto Switch/Refer to pages 761 to 809 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)		IC circuit	Relay, PLC		
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	●	●	●	○	○			
				3-wire (NPN)				M9N WV	M9N W	●	●	●	○	○			IC circuit
				3-wire (PNP)				M9P WV	M9P W	●	●	●	○	○			
				2-wire				M9B WV	M9B W	●	●	●	○	○			
	Diagnosis (2-color indication)	Grommet	Yes	3-wire (NPN)	24 V	5 V, 12 V	—	M9N WV	M9N W	●	●	●	○	○	IC circuit	Relay, PLC	
				3-wire (PNP)				M9P WV	M9P W	●	●	●	○	○			
				2-wire				M9B WV	M9B W	●	●	●	○	○			
				3-wire (NPN)				M9N AV	M9N A	○	○	●	○	○			IC circuit
				3-wire (PNP)				M9P AV	M9P A	○	○	●	○	○			
				2-wire				M9B AV	M9B A	○	○	●	○	○			
Water resistant (2-color indication)	Grommet	Yes	3-wire (NPN)	24 V	5 V, 12 V	—	M9N WV	M9N W	○	○	●	○	○	IC circuit	Relay, PLC		
			3-wire (PNP)				M9P WV	M9P W	○	○	●	○	○				
			2-wire				M9B WV	M9B W	○	○	●	○	○				
			3-wire (NPN)				M9N AV	M9N A	○	○	●	○	○			IC circuit	
			3-wire (PNP)				M9P AV	M9P A	○	○	●	○	○				
			2-wire				M9B AV	M9B A	○	○	●	○	○				

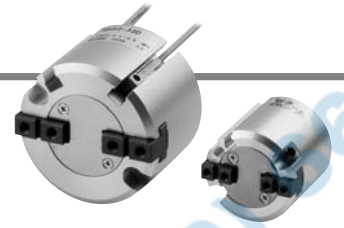
* Lead wire length symbols: 0.5 m Nil (Example) M9NW
1 m M (Example) M9NWM
3 m L (Example) M9NWL
5 m Z (Example) M9NWX

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

Note 1) Take note of hysteresis with 2-color indication type switches. Refer to "Auto Switch Hysteresis" on page 606.
Note 2) Refer to pages 761 to 809 for further information on auto switches.
Note 3) When mounting D-M9□□ on the cylinder (ø32 to ø63), auto switch mounting brackets (BMG2-012) are necessary.

Parallel Style Air Gripper/2-Finger Type *Series MHS2*

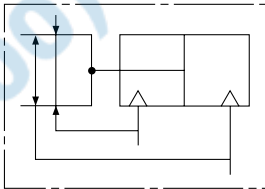
Model/Specifications



Model		MHS2-16D	MHS2-20D	MHS2-25D	MHS2-32D	MHS2-40D	MHS2-50D	MHS2-63D
Bore size (mm)		16	20	25	32	40	50	63
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			
Lubrication		Not required						
Action		Double acting						
Effective gripping force (N) at 0.5 MPa ^{Note)}	External grip	21	37	63	111	177	280	502
	Internal grip	23	42	71	123	195	306	537
Opening/Closing stroke (Both sides) (mm)		4	4	6	8	8	12	16
Mass (g)		58	96	134	265	345	515	952

Note) Values for $\phi 16$ to $\phi 25$ are with gripping point $L = 20$ mm, and for $\phi 32$ to $\phi 63$ with gripping point $L = 30$ mm.
Refer to "Effective Gripping Force" data on pages 547 and 548 for the gripping force at each gripping position.

Symbol



Made to Order

(Refer to pages 683 to 713 for details.)

Symbol	Specifications/Description
-X4	Heat resistance (100°C)
-X5	Fluororubber seal
-X50	Without magnet
-X53	EPDM seal/Fluorine grease
-X56	Axial ported
-X63	Fluorine grease
-X79	Grease for food

Refer to pages 604 to 611 for the specifications of products with auto switches.

- Auto switch installation examples and mounting positions
- Auto switch hysteresis
- Auto switch mounting
- Protrusion of auto switch from edge of body

MHZ

MHF

MHL

MHR

MHK

MHS

MHC

MHT

MHY

MHW

-X□

MRHQ

MA

D-□