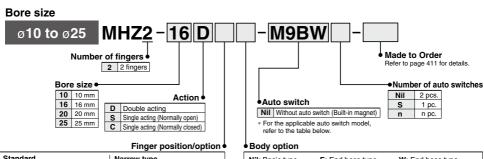
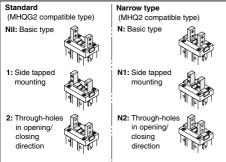
How to Order



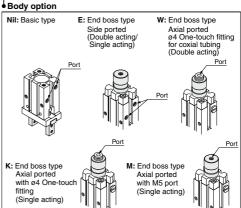




The flat type fingers do not have standard and narrow

options. 'Options.' When MHQG2/MHQ2 compatible types are required, see the -X51 made-to-order specifications on page





Applicable Auto Switches/Refer to pages 797 to 850 for further information on the auto switch.

Туре	Special function	Electrical entry	Indicator light	Wiring (Output)	Load voltage DC AC		10	Auto switch model		Lead wire length (m) *			Applicable model				Applicable			
							Electrical entry direction		0.5	0.5 1	3	5	~10	ø16 ø	~00		Pre-wired connector	load		
				(Output)			AC	Perpendicular	In-line	(Nil)	(M)	(L)	(Z)	טוש	סוש	020	025			
		Grommet		Oive (NIDNI)				M9NV	M9N	•	•	•	0	•	•	•	•	0		
	_			3-wire (NPN)		5 V, 12 V		F8N	_	•	-	•	0	_	•	•	•	_	IC circuit	
_ ا				3-wire (PNP)				M9PV	M9P	•	•	•	0	•	•	•	•	0		
switch								F8P	_	•	_	•	0	_	•	•	•	_		
S S				2-wire		12 V		M9BV	M9B	•	•	•	0	•	•	•	•	0		
auto			Yes		24 V	12 V	12 V	F8B	-	•	-	•	0	_	•	•	•	_	IC PLO	Relay,
state	Diagnosis	Citorillier	ies	3-wire (NPN)	1 1	5 V. 12 V] - [M9NWV	M9NW	•	•	•	0	•	•	•	•	0		PLC
ste	(2-color indicator)			3-wire (PNP) 2-wire	5 V, 12 V	V, 12 V	M9PWV	M9PW	•	•	•	0	•	•	•	•	0	circuit		
Solid						12 V		M9BWV	M9BW	•	•	•	0	•	•	•	•	0	_	
0	Water resistant (2-color			3-wire (NPN)	5 V, 12 V		M9NAV**	M9NA**	0	0	•	0	•	•	•	•	0	IC		
				3-wire (PNP)			M9PAV**	M9PA**	0	0	•	0	•	•	•	•	0	circuit		
	indicator)			2-wire		12 V		M9BAV**	M9BA**	0	0	•	0	•	•	•	•	0	_	

O are produced upon receipt of order.

** Water resistant type auto switches can be mounted on the above models, but in such case SMC cannot quarantee water resistance * Solid state auto switches marked with

* 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

Note 1) When using the 2-color indicator type, please make the setting so that the indicator is lit in red to ensure the detection at the proper position of the air gripper.

Note 2) Through-hole mounting is not possible when using the auto switch at the square groove on the side. Note 3) When the product is ordered with auto switch, only MHZ2-10 is shipped with the auto switch mounting brackets. When the auto switch is used at the square groove on the side with MHZ2-16 to 25, mounting brackets (BMG2-012) are required. Pease order them separately. Refer to page 457 for the auto switch mounting brackets.

Moisture Control Tube

When operating an actuator with a small diameter and a short stroke at a high frequency, the dew condensation (water droplet) may occur inside the piping depending on the conditions.

Simply connecting the moisture control tube to the actuator will prevent dew condensation from occurring. For details, refer to the IDK series in the Best Pneumatics No. 6.



MHZ

MHF

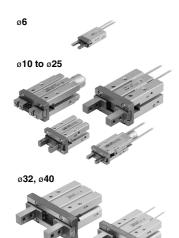
MHL

MHR

MHK MHS

MHC MHT MHY MHW -X□ MRHO MA D-

Parallel Type Air Gripper/Standard Type MHZ2 Series



Symbol

Double acting: Internal grip

Double acting: External grip

Single acting/ Single acting/
Normally closed: Internal grip Normally open: External grip



Refer to pages 454 to 458 for the specifications with auto switch.

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



Made to Order: Individual Specifications (For details, refer to pages 459 and 460.)

Symbol	Specifications/Description
-X46	Built-in needle valve for finger speed control
-X51	MHQ2/MHQG2-compliant flat type fingers



Made to Order Click here for details

_	Click fiele for details
Symbol	Specifications/Description
-X4	Heat resistance (100°C)
-X5	Fluororubber seal
-X7	Closing direction spring assist
-X12	Opening direction spring assist
-X50	Without magnet
-X53	EPDM seal/Fluorine grease
-X56	Axial ported type
-X63	Fluorine grease
-X79	Grease for food processing machines, Fluorine grease
-X79A	Grease for food processing machines
-X81A	Anti-corrosive treatment of finger
-X81B	Anti-corrosive treatment of finger and guide

Specifications

	Fluid		Air				
			ø6: 0.15 to 0.7 MPa				
	Double acting		ø10: 0.2 to 0.7 MPa				
Operating			ø16 to ø40: 0.1 to 0.7 MPa				
pressure	Single acting	Normally open	ø6: 0.3 to 0.7 MPa				
			ø10: 0.35 to 0.7 MPa				
		Normally closed	ø16 to ø40: 0.25 to 0.7 MPa				
Ambient a	nd fluic	temperature	−10 to 60°C				
Repeatabi	lity		ø6 to ø25: ±0.01 mm				
переатарі	iity		ø32, ø40: ±0.02 mm				
Max. oper	atina fr	allonov	ø6 to ø25: 180 c.p.m.				
wax. oper	ating in	equency	ø32, ø40: 60 c.p.m.				
Lubrication Action			Not required				
			Double acting/Single acting				
Auto swite	h (Opti	on) Note)	Solid state auto switch (3-wire, 2-wire)				

Note) Refer to pages 797 to 850 for further information on auto switches.

* Use the gripper with dust cover when used in a place where there may be dust.

Model

Action			Bore	Gripping	Opening/					
		Model	size	Gripping for Effective	Closing stroke (Both sides)	Weight (g)				
			(mm)	External	Internal	(mm)				
		MHZ2-6D	6	3.3	6.1	4	27			
		MHZ2-10D(N)	10	11	17	4	55			
Doubl	_	MHZ2-16D(N)	16	34	45	6	115			
actin		MHZ2-20D(N)	20	42	66	10	230			
acting	a	MHZ2-25D(N)	25	65	104	14	420			
		MHZ2-32D	32	158	193	22	715			
		MHZ2-40D	40	254	318	30	1275			
	Normally open	MHZ2-6S	6	1.9		4	27			
		MHZ2-10S(N)	10	7.1		4	55			
		MHZ2-16S(N)	16	27		6	115			
		MHZ2-20S(N)	20	33	_	10	235			
		MHZ2-25S(N)	25	45		14	425			
		MHZ2-32S	32	131		22	760			
Single		MHZ2-40S	40	217		30	1370			
acting	_	MHZ2-6C	6		3.7	4	27			
	Normally closed	MHZ2-10C(N)	10		13	4	55			
		MHZ2-16C(N)	16		38	6	115			
		MHZ2-20C(N)	20	_	57	10	235			
		MHZ2-25C(N)	25		83	14	425			
		MHZ2-32C	32		161	22	760			
		MHZ2-40C	40		267	30	1370			
Note 1) Values based on pressure of 0.5 MPa, gripping point L = 20 mm, at center of stroke.										

Note 1) Values based on pressure of 0.5 MPa, gripping point $L=20\,$ mm, at center of stroke Note 2) Values excluding weight of auto switch.

Option

●Body Option/End Boss Type

Option/End Boss Type													
Symbol	Piping port	Type of piping port							Applicable model				
Syllibol	location	MHZ2-6	MHZ2-10	MHZ2-16	MHZ2-20	MHZ2-25	MHZ2-32	MHZ2-40	Double acting	Single acting			
Nil	Basic type	M3 :	x 0.5	M5 x 0.8			8		•	•			
E	Side ported	_	M3 x 0.5	M5 x 0.8			_	_	•	•			
W	Axial ported	_	With ø4 One-touch fitting for coaxial tubing			-	_	•	_				
K	Axial ported	_	With ø4 One-touch fitting			-	_	_	•				
M	Axial ported		M5 x 0.8			_	_	_	•				

^{*} For detailed body option specifications, refer to option specifications on pages 424 and 425.

MHF

MHR

MHK

MHC

MHY

-X□ Mrhq

MA

_ D-□