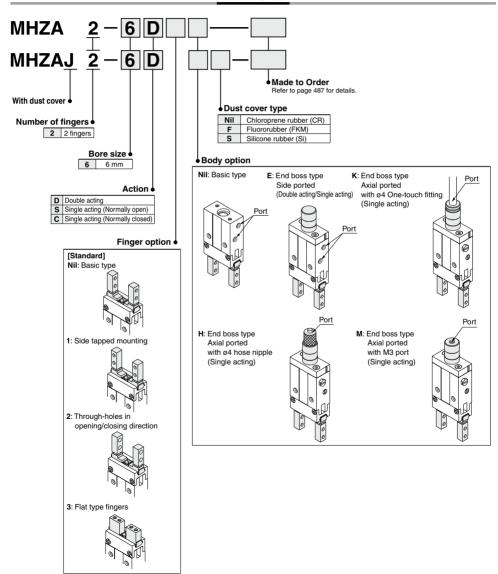
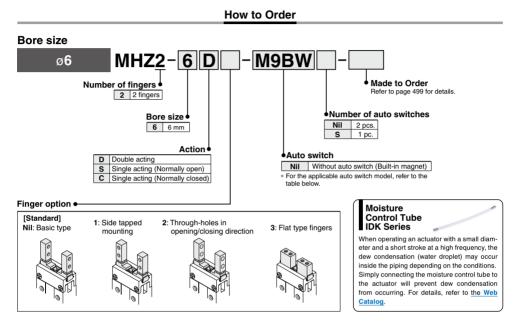
# Parallel Type Air Gripper (Standard) Compact Series (Without Auto Switch) MHZA2-6/MHZAJ2-6 Series

How to Order



### Parallel Type Air Gripper/Standard Type MHZ2 Series ø6, ø10, ø16, ø20, ø25, ø32, ø40



Applicable Auto Switches/Refer to pages 929 to 983 for further information on the auto switch.

	<b>.</b>					.oad volta	~~	Auto swit	ch model	Lead	l wire l	ength	(m) *				
Туре	Special function	entry	Indicator light	Wiring (Output)		Load voltage			Electrical entry direction			3	5	Pre-wired connector		cable	
	lanotion	onay	ngin	(Output)		DC AC		Perpendicular	In-line	(Nil)	(M)	(L)	(Z)		load		
				3-wire (NPN)				M9NV	M9N	٠	•	٠	0	0			
	_			3-wire (INPIN)		5 V. 12 V		F8N	—	•		•	0	-	IC		
c				Quuine (DND)		5 V, 12 V		M9PV	M9P	•	•	•	0	0	circuit		
switch				3-wire (PNP)				F8P	—	•	—	٠	0	—			
AS C				2-wire		12 V		M9BV	M9B	•	•	•	0	0			
auto		Grommet	Yes	2-wire	24 V			F8B	—	•	-	•	0	-	_	Relay,	
state	Diagnosis	Citominer	ies	3-wire (NPN)		5 V, 12 V		M9NWV	M9NW	•	•	•	0	0	IC	PLC	
l st	(2-color			3-wire (PNP)		5 V, 12 V		M9PWV	M9PW	•	•	•	0	0	circuit		
Solid	indicator)			2-wire		12 V		M9BWV	M9BW	•	•	•	0	0	—		
S	Water resistant (2-color			3-wire (NPN)		5 V, 12 V		M9NAV**	M9NA**	0	0	٠	0	0	IC		
				3-wire (PNP)		5 V, 12 V		M9PAV**	M9PA**	0	0	٠	0	0	circuit		
	indicator)			2-wire		12 V		M9BAV**	M9BA**	0	0	•	0	0	-		

\*\* Water resistant type auto switches can be mounted on the above models, but in such case SMC cannot guarantee water resistance. \* Lead wire length symbols: 0.5 m ..... Nil (Example) M9NW

\* Solid state auto switches marked with O are produced upon receipt of order.

1 m ..... M (Example) M9NWM

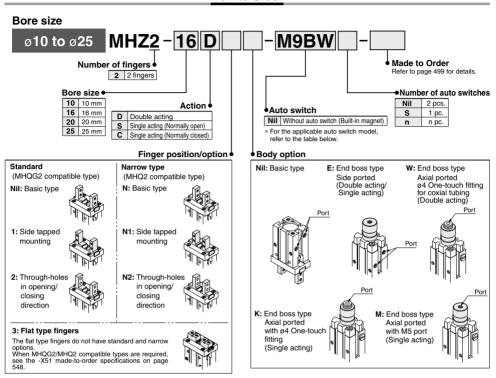
- 3 m ..... L (Example) M9NWL
- 5 m ...... Z (Example) M9NWZ

Note 1) When using a D-F8D switch, mount it at a distance of 10 mm or more from magnetic substances such as iron, etc.

Note 2) 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.

### Parallel Type Air Gripper/Standard Type MHZ2 Series

How to Order



Applicable Auto Switches/Refer to pages 929 to 983 for further information on the auto switch.

	<b>•</b> • •					oad voltad		Auto swit	ch model	Lead	wire I	ength	(m) *	App	licab	le mo	odel			
Туре	Special function	Electrical entry	Indicator light	Wiring (Output)	,		je	Electrical en	Electrical entry direction		1	3	5				- 05	Pre-wired connector	Applic	
	lanouon	enuy		(Output)			AC	Perpendicular	In-line	(Nil)	(M)	(L)	(Z)	Ø10	ø16	Ø20	Ø25		loud	
								M9NV	M9N	٠	٠	٠	0	•	•	٠	•	0		
				3-wire (NPN)		5 V. 12 V		F8N	_	٠	-	٠	0	-	•	٠	٠	-	IC	
-	-			3-wire (PNP)		5 V, 12 V		M9PV	M9P	•	•	•	0	•	•	•	•	0	circuit	
switch				3-wire (PINP)				F8P	_	٠	—	٠	0		•	٠	٠	-		
NS C				2-wire	]	12 V		M9BV	M9B	•	٠	•	0	•	•	•	•	0		]
auto		Grommet	Yes	2-wire	24 V	12 V	_	F8B	_	•	—	•	0		•	•	•	-	_	Relay,
state	Diagnosis	Grommer	163	3-wire (NPN)	124 V	5 V. 12 V	/	M9NWV	M9NW	٠	٠	•	0	•	•	٠	٠	0	IC	PLC
	(2-color			3-wire (PNP)		5 V, 12 V		M9PWV	M9PW	•	٠	•	0	•	•	•	•	0	circuit	
Solid	indicator)			2-wire		12 V		M9BWV	M9BW	•	•	•	0	•	•	•	•	0	-	]
00	Water resistant			3-wire (NPN)		5 V. 12 V		M9NAV**	M9NA**	0	0	•	0	•	•	٠	٠	0	IC	]
	(2-color			3-wire (PNP)	]	5 V, 12 V		M9PAV**	M9PA**	0	0	•	0	•	•	•	•	0	circuit	
	indicator)			2-wire	]	12 V		M9BAV**	M9BA**	0	0	•	0	•	•	•	•	0	-	]

\*\* Water resistant type auto switches can be mounted on the above models, but in such case SMC cannot guarantee water resistance.

\* 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

O are produced upon receipt of order.

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.

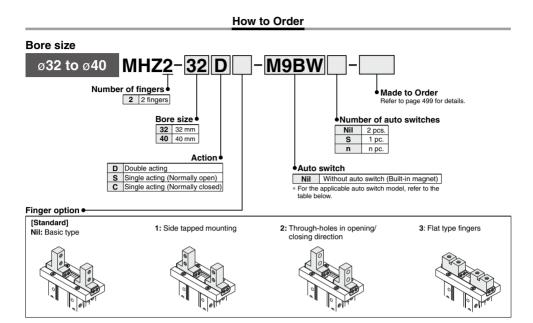
Note 2) Through-hole mounting is not possible when using the auto switch at the square groove on the side. Note 3) When the product is ordered with auto switch, only MHZ2-10 is shipped with the auto switch mounting brackets. When ordering an auto switch for an MHZ2-10 separately, an auto switch mounting bracket (BMG2-012) is also required. Be sure to order it separately. 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 545 for the auto switch mounting brac

#### Moisture Control Tube **IDK Series**

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 Web Catalog.

### MHZ2 Series



#### Applicable Auto Switches/Refer to pages 929 to 983 for further information on the auto switch.

			Indicator light			oad voltag	<u>_</u>	Auto swit	ch model	Lead	wire le	ength	(m) *			
Type	Special function	Electrical entry		Wiring (Output)	-	uau vuitay	8	Electrical entry direction			1	3	5	Pre-wired connector	Applie	
	Turretion	onay	ingin	(Output)	1	DC AC		Perpendicular	In-line	(Nil)	(M)	(L)	(Z)	Connector	load	
				3-wire (NPN)				M9NV	M9N	٠	٠	٠	0	0		
						5 V. 12 V		F8N	-	•	-	٠	0	-	IC	
				3-wire (PNP)		5 V, 12 V		M9PV	M9P	•		٠	0	0	circuit	
switch	_			S-WIE (PNP)	24 V			F8P	_	٠	_	٠	0	-		
l so				2-wire		12 V		M9BV	M9B	•	•	٠	0	0		
auto		0		2-wire		12 V	V, 12 V	F8B	_	•	-	٠	0	-		Relay,
state	Diagnosis	Grommet	Yes	3-wire (NPN)		5 V, 12 V 12 V		M9NWV	M9NW	٠	٠	٠	0	0	IC	PLC
l sta	(2-color			3-wire (PNP)				M9PWV	M9PW	•	•	٠	0	0	circuit	
Solid	indicator)			2-wire				M9BWV	M9BW	•	•	٠	0	0	-	
0	Water resistant			3-wire (NPN)		5 V. 12 V		M9NAV**	M9NA**	0	0	٠	0	0	IC	
	(2-color			3-wire (PNP)		5 V, 12 V		M9PAV**	M9PA**	0	0	٠	0	0	circuit	
	indicator)			2-wire		12 V		M9BAV**	M9BA**	0	0	٠	0	0	-	

\*\* Water resistant type auto switches can be mounted on the above models, but in such case SMC cannot guarantee water resistance. \* Solid state auto switches marked with O are produced upon receipt of order.

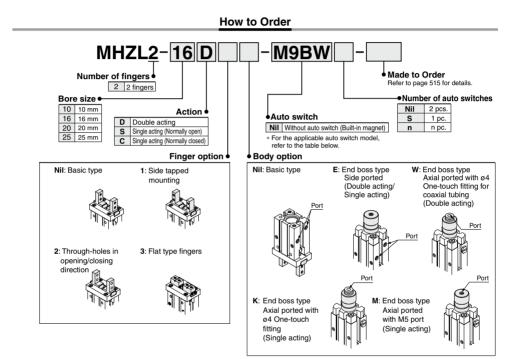
\* Lead wire length symbols: 0.5 m ..... Nil (Example) M9NW

- 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 auto switch is used at the square groove on the side with MHZ2-32 and 40, mounting brackets (BMG2-012) are required. Please order them separately. Refer to page 545 for the auto switch mounting brackets.

## Parallel Type Air Gripper/Long Stroke Type MHZL2 Series ø10, ø16, ø20, ø25



#### Applicable Auto Switches/Refer to pages 929 to 983 for further information on the auto switch.

					Load voltage			Auto swit	ch model	Lead	wire I	ength	(m) *	App	licab	le m	odel	_		
Туре	Special function	Electrical entry	Indicator light	Wiring (Output)	DC		Electrical ent		try direction	0.5	1	3	5			- 00	- 05	Pre-wired connector	Appli	cable ad
	Turiotion	entry	ligit	(Output)			AC	Perpendicular	In-line	(Nil)	(M)	(L)	(Z)	ø10	Ø16	Ø20	Ø25		.500	
								M9NV	M9N	•	•	٠	0	•	٠	•	•	0		
				3-wire (NPN)		5V. 12 V		F8N	_	٠	-	٠	0	—	٠	٠	٠	-		
_	_			3-wire (PNP)		5V, 12 V		M9PV	M9P	٠	•	٠	0	٠	٠	٠	•	0	circuit	
switch				3-wire (PNP)				F8P	_	٠	-	٠	0	—	٠	٠	٠	-	1	
				2-wire		10.1/	12 V	M9BV	M9B	٠	•	•	0	•	٠	•	٠	0		
auto		Grommet	Yes	2-wire	24 V			F8B	_	٠	-	٠	0	—	٠	٠	٠	-	-	Relay
state	Diagnosis	Circininet	100	3-wire (NPN)		5 V. 12 V	v	M9NWV	M9NW	•	•	٠	0	•	٠	•	•	0	IC	PLC
	(2-color			3-wire (PNP)		5 V, 12 V		M9PWV	M9PW	٠	•	•	0	•	٠	•	٠	0	circuit —	
Solid	indicator)			2-wire		12 V		M9BWV	M9BW	•	•	٠	0	٠	٠	٠	٠	0		
05	Water resistant			3-wire (NPN)	1	5 V. 12 V	1	M9NAV**	M9NA**	0	0	٠	0	•	٠	٠	٠	0	IC	1
	(2-color			3-wire (PNP)		5 V, 12 V		M9PAV**	M9PA**	0	0	٠	0	•	٠	•	•	0	circuit	1
	indicator)			2-wire		12 V		M9BAV**	M9BA**	0	0	٠	0	•	٠	٠	•	0	-	]

\*\* Water resistant type auto switches can be mounted on the above models, but in such case SMC cannot guarantee water resistance. \* Lead wire length symbols: 0.5 m ..... Nil (Example) M9NW \* Solid state auto switches marked with O are produced upon receipt of order.

1 m ..... M (Example) M9NWM

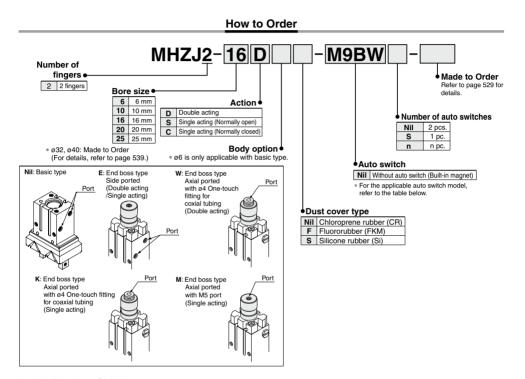
3 m ..... L (Example) M9NWL

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 MHZL2-10 is shipped with the auto switch mounting brackets. When ordering an auto switch for an MHZ2-10 separately, an auto switch mounting bracket (BMG2-012) is also required. Be sure to order it separately. When the auto switch is used at the square groove on the side with MHZI 2-16 to 25 mounting brackets (BMG2-012) are required Order them separa olv Rofo to page 545 for the auto switch mounting

## Parallel Type Air Gripper with Dust Cover **MHZJ2 Series** Ø6, Ø10, Ø16, Ø20, Ø25, Ø32, Ø40



#### Applicable Auto Switches/Refer to pages 929 to 983 for further information on the auto switch.

	Oracial		light			Load voltage		Auto swit	ch model	Lead	wire le	ength (	m) *	A	pplic	able	mod	el					
Туре	Special function	Electrical entry	Indicator	Wiring (Output)	·····g		Loud vollage		Electrical entry direction		1	3	5	0.6	ø10	a16	~20	~ ^ E	Pre-wired connector	Applie	ad ad		
	Turiotion	lonay		(Output)		DC AC		Perpendicular	In-line	(Nil)	(M)	(L)	(Z)	00	010	010	020	025		loud			
				3-wire (NPN)				M9NV	M9N	٠	•	٠	0	٠	٠	•	٠	٠	0				
						5 V. 12 V		F8N	—	٠	—	•	0	٠	—	٠	•	•	—	IC			
switch				3-wire (PNP)		5 V, 12 V		M9PV	M9P	٠	•	٠	0	٠	٠	٠	•	•	0	circuit			
	_							F8P	_	•	-	•	0	•	-	•	•	•	-				
			Vac			2-wire		12 V		M9BV	M9B	٠	٠	٠	0	٠	٠	٠	٠	٠	0		
auto					) 24 V			F8B	_	٠	—	٠	0	٠	_	٠	•	٠	-		Relay,		
state	Diagnosis	Grommet	res				_	M9NWV	M9NW	•	•	•	0	•	•	•	•	•	0	IC	PLC		
	(2-color			3-wire (PNP)	1	5 V, 12 V		M9PWV	M9PW	٠	•	٠	0	٠	•	٠	•	•	0	circuit —			
Solid	indicator)			2-wire	1	12 V	1	M9BWV	M9BW	٠	٠	٠	0	٠	٠	٠	٠	٠	0				
S	Water resistant			3-wire (NPN)	1	5 V, 12 V		M9NAV**	M9NA**	0	0	٠	0	٠	٠	٠	٠	٠	0	IC			
	(2-color			3-wire (PNP)	1	5 V, 12 V		M9PAV**	M9PA**	0	0	٠	0	٠	٠	٠	•	٠	0	circuit			
	indicator)			2-wire	1	12 V	M9BAV**	M9BA**	0	0	٠	0	٠	٠	٠	•	٠	0	—				

\*\* Water resistant type auto switches can be mounted on the above models, but in such case SMC cannot guarantee water resistance. \* Lead wire length symbols: 0.5 m..... Nil (Example) M9NW \* Solid state auto switches marked with O are produced upon receipt of order.

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) When using a D-F8D switch on sizes e6, mount it at a distance of 10 mm or more from magnetic substances such as iron, etc.