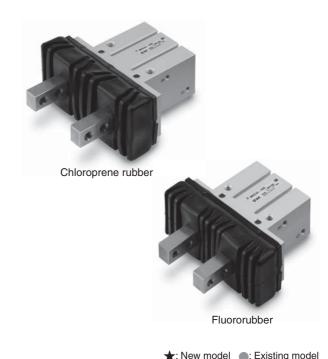
Parallel Style Air Gripper With Dust Cover

Model variations with excellent dust proof and drip proof dust cover are expanded.



Ø 32 and Ø 40 added to the MHZJ2 series with dust cover.



		.000	_						
Series	Bore size [mm]								
Series	6	10	16	20	25	32	40		
With dust cover Series MHZJ		•	•	•	•				
New MHZJ2-X6100	/	/	/	/		*	*		

^{*} For details about dust cover types and option combinations, refer to How to Order.

Three types of dust cover materials are available.

(Chloroprene rubber, Fluororubber, Silicone rubber)

MHZL2-X6110/MHZJ2-X6100

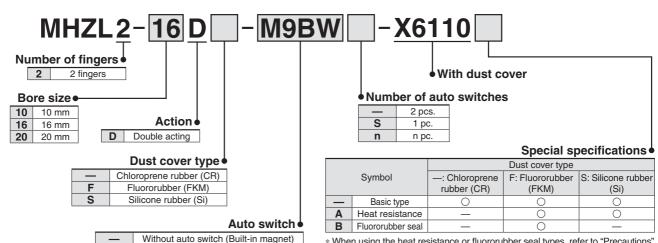


12-EU599-UK

Parallel Style Air Gripper Long Stroke Type/With Dust Cover

MHZL2-X6110

How to Order



^{*} When using the heat resistance or fluororubber seal types, refer to "Precautions"

Applicable Auto Switches

-	Applicable Auto Owitories																							
		Electrical		\A(::	L	oad voltag	е	Auto swit	ch model	Lead	l wire l	ength	[m]*	Applic	cable r	nodel	Due sudue d							
Туре	Special function	entry	Indicator light	Wiring (Output)		DC	AC	Perpendicular	cular In-line 0.5 1 3 5 0 1 0.5 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1	ø 10	ø 16	ø 20	Pre-wired connector	Applicat	ble load									
tch				3-wire (NPN)		5 V, 12 V	5 V 40 V		5 V, 12 V		M9NV	M9N				0				0	IC circuit			
\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\				3-wire (PNP)]		5 V, 12 V			M9PV	M9P				0				0	IC circuit				
S	_			2-wire]	12 V]	M9BV	M9B				0				0	_						
무				3-wire (NPN)	24 V	1		5 V, 12 V _	5 V, 12 V	10.14	M9NWV	M9NW	•	•		0	•			0	IC aireuit	Dalan		
ā	Diagnostic indication	Grommet	Yes	3-wire (PNP)						V 3 V, 12 V	—	M9PWV	M9PW				0				0	IC circuit	Relay, PLC	
state	(2-colour indication)			2-wire	1	12 V	12 V	12 V	12 V	12 V	M9BWV	M9BW		•	•	0	•	•	•	0	_	PLC		
		Marin Carlo			***				3-wire (NPN)]	5.V. 40.V]	M9NAV	M9NA	0	0		0				0	IC airavit	
	Water resistant (2-colour indication)			3-wire (PNP)	1	5 V, 12 V		M9PAV	M9PA	0	0	•	0	•	•	•	0	IC circuit						
Sol	(2-colour indication)			2-wire]	12 V	1	M9BAV	M9BA	0	0		0				0	_						

- * Lead wire length symbols
- 0.5 m ····· 1 m M
- (Example) M9NW (Example) M9NWM
- 3 m L 5 m Z
- (Example) M9NWL (Example) M9NWZ

* For the applicable auto switch model, refer to the

- * Solid state auto switches marked with a "O" are produced upon receipt of order.
- * For 2-colour indication type, use caution on hysteresis. For details, refer to the standard type auto switch hysteresis

Specifications

Ту	ре	Basic type	Heat resistance	Fluororubber seal				
Fluid			Air					
Operating pressure	perating pressure Double acting Ø 10: 0.2 to 0.7 MPa, Ø 16, Ø 20: 0.1 to 0.7							
Ambient and flu	id temperature	−10 to 60 °C	-10 to 100 °C	-10 to 60 °C				
Repeatability		±0.01 mm						
Max. operating	frequency	120 c.p.m						
Lubrication		Not required						
Action		Double acting						
Auto switch (O	ption)	Solid state auto switch (3-wire/2-wire)						

Model

	01					
Action	Model	Bore size	Gripping f	orce Note1)	Opening/	Note 2)
			Gripping for	ce per finger	Closing stroke	Weight
		[mm]	Effective	value [N]	(Both sides)	[g]
		[[[[External	Internal	[mm]	[9]
Daubla	MHZL2-10D-X6110□	10	11	17	8	85
acting -	MHZL2-16D-X6110□	16	34	45	12	150
	MHZL2-20D-X6110□	20	42	66	18	385

Note 1) Values based on pressure of 0.5 MPa, gripping point L = 20 mm, at centre of stroke

Note 2) Values excluding weight of auto switch.

⚠ Precautions

For heat resistance

Be aware that smoking cigarettes after your hands have come into contact with the grease used for this air gripper can create a gas that is hazardous to humans.

∕!\ Caution

- Note 1) Magnet is built-in, but when using an auto switch, the acceptable temperature range becomes -10 to 60 °C.
- Note 2) For the dust cover option part number, only fluororubber (F) or silicone rubber (S) can be selected.
- Note 3) For lubrication, specialised grease GR-F is recommended.

For fluororubber seal

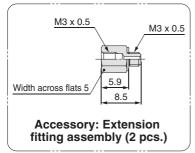
♠ Caution

- Note 1) Consult with SMC, since the type of chemical and the operating temperature may not allow the use of this product.
- Note 2) Since the standard-type magnet is built-in, consult with SMC for the product's adaptability to the operating environment.
- Note 3) The dust cover material is also fluororubber. Thus, enter (F) for the fluororubber dust cover in the part number.

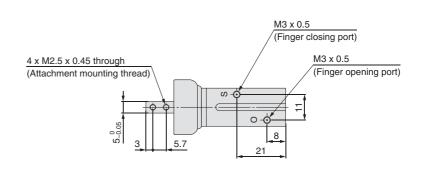
Dimensions

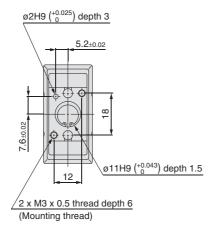
MHZL2-10D□-X6110 Basic type/Double acting

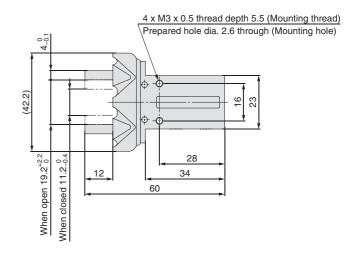




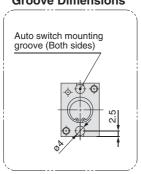
* When using the perpendicular type (D-M9□V) switch, use an extention fitting since the switch interferes with the One-touch fitting.

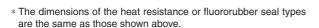


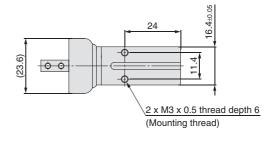




Auto Switch Mounting Groove Dimensions







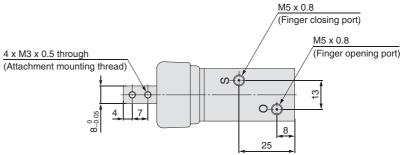


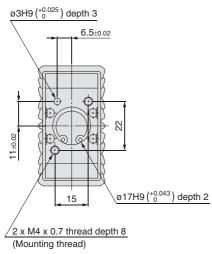
MHZL2-X6110

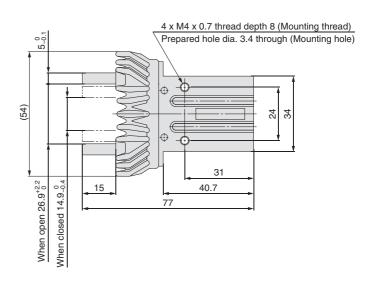
Dimensions

MHZL2-16D□-X6110 Basic type/Double acting

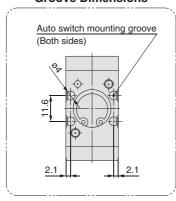


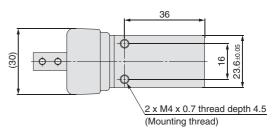






Auto Switch Mounting Groove Dimensions



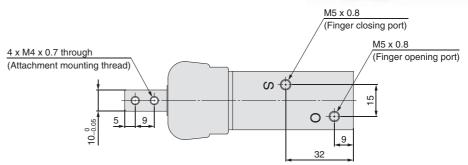


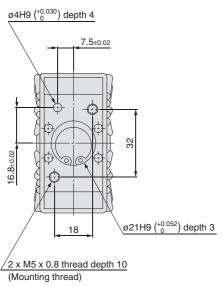
 \ast The dimensions of the heat resistance or fluororubber seal types are the same as those shown above.

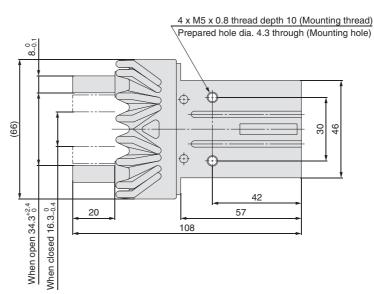
Dimensions

MHZL2-20D□-X6110 Basic type/Double acting

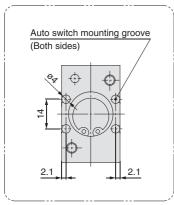


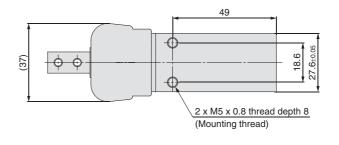






Auto Switch Mounting Groove Dimensions



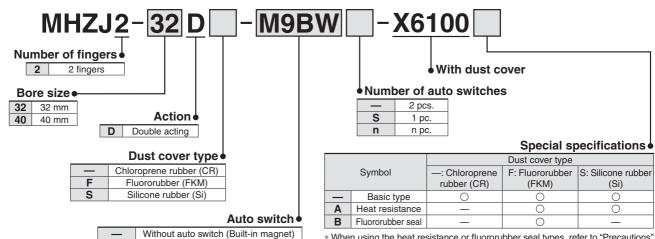


 \ast The dimensions of the heat resistance or fluororubber seal types are the same as those shown above.

Parallel Style Air Gripper With Dust Cover

MHZJ2-X6100

How to Order



^{*} For the applicable auto switch model, refer to

Applicable Auto Switches

		Ele eleie el	la dia atau	\A(!::::	Lo	oad voltag	е	Auto swit	ch model	Lea	d wire l	ength [m]*	Applicab	ole model	Due sudue d							
Туре	Special function	entry	Indicator light	Wiring (Output)		DC	AC	Perpendicular	In-line	0.5 (—)	1 (M)	3 (L)	5 (Z)	ø 32	ø 40	Pre-wired connector	Applica	ble load					
Ë				3-wire (NPN)		5 V. 12 V	= V/ 10 V/	M9NV	M9N	•			0			0	IC circuit						
witch				3-wire (PNP)		12 V 5 V. 12 V	5 V, 12 V	5 V, 12 V		M9PV	M9P	•		•	0	•	•	0	IC CIrcuit				
S	_			2-wire			12 V	12 V	12 V	M9BV	M9B			•	0			0	_				
l to				3-wire (NPN)				21/	M9NWV	M9NW		•	•	0	•	•	0	10 -11					
al	Diagnostic indication	Grommet	Yes	3-wire (PNP)	24 V	24 V	24 V	5 V, 12 V —	5 V, 12 V	/ 5 V, 12 V	4 V 5 V, 12 V	_	M9PWV	M9PW	•	•	•	0	•	•	0	IC circuit	Relay, PLC
state	(2-colour indication)			2-wire]	12 V		M9BWV	M9BW	•	•	•	0	•	•	0	_	PLC					
	14/ 1 1 1			3-wire (NPN)		EV 40V	M9NAV M9NA	M9NA	0	0	•	0	•		0	10 -11							
Solid	Water resistant (2-colour indication)			3-wire (PNP)]	5 V, 12 V		M9PAV	M9PA	0	0	•	0	•		0	IC circuit						
Ň	(2-colour indication)			2-wire		12 V		M9BAV	M9BA	0	0	•	0	•	•	0	_						

- * Lead wire length symbols
- 0.5 m 1 m M
- (Example) M9NW (Example) M9NWM
- 3 m L 5 m Z
- (Example) M9NWL (Example) M9NWZ
- * Solid state auto switches marked with a "O" are produced upon receipt of order.
- * For 2-colour indication type, use caution on hysteresis. For details, refer to the standard type auto switch hysteresis

Specifications

Тур	ре	Basic type	Heat resistance	Fluororubber seal					
Fluid			Air						
Operating pressure	Double acting	0.1 to 0.7 MPa							
Ambient and fluid	d temperature	−10 to 60 °C	−10 to 100 °C	-10 to 60 °C					
Repeatability		±0.01 mm							
Max. operating	frequency		60 c.p.m						
Lubrication		Not required							
Action		Double acting							

Model

Action	Model	D	Gripping f	orce Note1)	Opening/	Note 2)	
		Bore size [mm]	Gripping for Effective	ce per finger value [N]	Closing stroke (Both sides)	Weight [g]	
			External	Internal	[mm]	[9]	
Double	MHZJ2-32D-X6100□	32	158	193	22	760	
acting	MHZJ2-40D-X6100□	40	254	318	30	1325	

Note 1) Values based on pressure of 0.5 MPa, gripping point L = 20 mm, at centre of stroke

Note 2) Values excluding weight of auto switch.

Precautions

For heat resistance

/♠ Warning

Be aware that smoking cigarettes after your hands have come into contact with the grease used for this air gripper can create a gas that is hazardous to humans.

- Note 1) Magnet is built-in, but when using an auto switch, the acceptable temperature range becomes -10 to 60 °C.
- Note 2) For the dust cover option part number, only fluororubber (F) or silicone rubber (S) can be selected.
- Note 3) For lubrication, specialised grease GR-F is recommended.

For fluororubber seal

♠ Caution

- Note 1) Consult with SMC, since the type of chemical and the operating temperature may not allow the use of this product.
- Note 2) Since the standard-type magnet is built-in, consult with SMC for the product's adaptability to the operating environment.
- Note 3) The dust cover material is also fluororubber. Thus, enter (F) for the fluororubber dust cover in the part number.

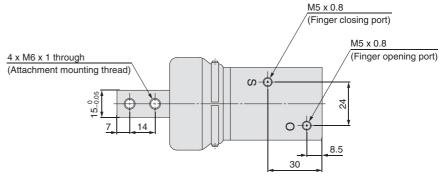


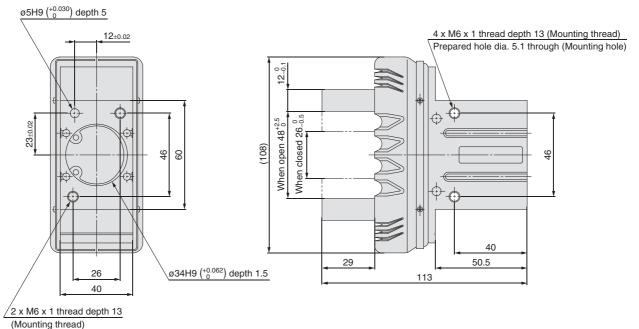
^{*} When using the heat resistance or fluororubber seal types, refer to "Precautions"

Dimensions

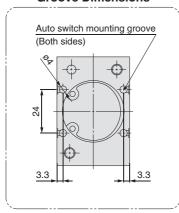
MHZJ2-32D□-X6100 Basic type/Double acting

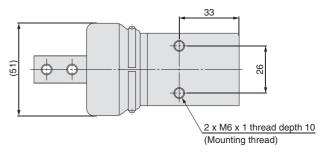






Auto Switch Mounting Groove Dimensions





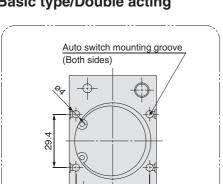
st The dimensions of the heat resistance or fluororubber seal types are the same as those shown above.



MHZJ2-X6100

Dimensions

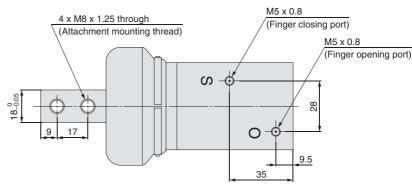
MHZJ2-40D□-X6100 Basic type/Double acting

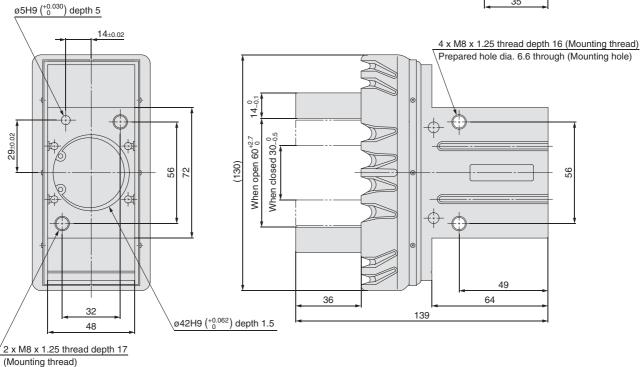


Auto Switch Mounting Groove Dimensions

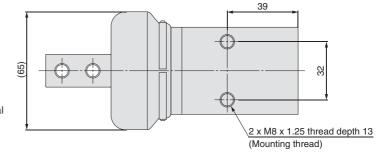
3.7







* The dimensions of the heat resistance or fluororubber seal types are the same as those shown above.



SMC Corporation

SMC CORPORATION

Akihabara UDX 15F, 4-14-1, Sotokanda, Chiyoda-ku, Tokyo 101-0021, JAPAN Phone: 03-5207-8249 FAX: 03-5298-5362 SMC CORPORATION All Rights Reserved

European Marketing Centre (EMC)

Zuazobidea 14, 01015 Vitoria Tel: +34 945-184 100 Fax: +34 945-184 124 URL http://www.smc.eu