Parallel Style Air Gripper With Dust Cover

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



* 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

1454

Parallel Style Air Gripper Long Stroke Type/With Dust Cover MHZL2-X6110

How to Order



shown below

* For the applicable auto switch model, refer to the table below.

Applicable Auto Switches

Туре		Electrical entry		14/1-1	Ŀ	oad voltag	e	Auto swit	ch model	Lead	wire I	ength	(m)*	Applic	cable r	nodel	Destructional																	
	Special function		light	light	light	(Output)	(Output)	(Output)		DC	AC	Perpendicular	In-line	0.5 (Nil)	1 (M)	3 (L)	5 (Z)	ø10	ø16	ø20	connector	Applical	ble load											
÷	-			3-wire (NPN)		EV 10V	V 12 V	M9NV	M9N	٠	٠	٠	0	•	•	٠	0	IC aircuit																
uto switc				3-wire (PNP)	5 V, 12 V		M9PV	M9P	٠	•	٠	0	•	•		0	IC CIICUIL																	
		Grommet Y					2-wire		12 V	1	M9BV	M9B	٠	٠	٠	0	•	•	٠	0	-													
									3-wire (NPN)		EV 10V		M9NWV	M9NW	•	•	•	0	•	•	•	0												
a	Diagnostic indication		et Yes	3-wire (PNP)	24 V 5 V, 12	5 V, 12 V	2V -	_	M9PWV	M9PW	•	•	•	0	•	•	•	0	IC CIICUII	Helay,														
ate	(2-color indication)			2-wire	12 V	ין		M9BWV	M9BW	٠	٠	٠	0	•	•	•	0	—	FLU															
st	Water resistant		1	1	1	1		Í -	Í -	1									3-wire (NPN)		EV 10V	1	M9NAV	M9NA	0	0	٠	0	•	•	٠	0	IC aircuit	1
寝				3-wire (PNP)		5 V, 12 V	5 V, 12 V	5 V, 12 V	5 V, 1∠ V	M9PAV	M9PA	0	0	٠	0	•	٠	٠	0	IC circuit														
š	(2-color indication)			2-wire		12 V		M9BAV	M9BA	0	0	٠	0	•	•	٠	0	—																
~ L 00	d wire length overh		m N	il (Evomolo)	MONIN	M *	Solid	etato auto en	vitchos mark	od wi	h a "()" ar	nro	hoout	unon	rocoi	nt of ord	or.																

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 a "O" are produced upon receipt of order.
 For 2-color indication type, use caution on hysteresis. For details, refer to the standard type auto

switch hysteresis.

Specifications

Turpo	Basic type	Heat	Fluororubber					
Type	Dasic type	resistance	seal					
Fluid		Air						
Operating pressure Double acting	ø10: 0.2 to 0.7	ø10: 0.2 to 0.7 MPa, ø16, ø20: 0.1 to 0.7 MPa						
Ambient and fluid 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 (Option)	Solid state auto switch (3-wire/2-wire)							

Model

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

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.

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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.

🗥 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, specialized 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.



▲ Precautions

Parallel Style Air Gripper MHZL2-X6110

Dimensions

MHZL2-10D -X6110 Basic type/Double acting



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

MHZ 2 MHS3

MHZL2-X6110

Dimensions



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

Parallel Style Air Gripper MHZL2-X6110



* 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



the table below.

Applicable Auto Switches

	Special function	Electrical I entry	cal Indicator	Wiring (Output)	Load voltage			Auto swit	Lead wire length (m)*				Applicable model																	
Туре						DC AC		Perpendicular	In-line	0.5 (Nil)	1 (M)	3 (L)	5 (Z)	ø32	ø40	connector	Applical	ble load												
÷	—			3-wire (NPN)		EV 10V	V 12 V	M9NV	M9N	٠	•	٠	0	•	٠	0	IC aircuit													
uto switc				3-wire (PNP)	VP)	5 V, 12 V		M9PV	M9P	٠	۲		0		٠	0	TO CITCUIT													
											2-wire		12 V		M9BV	M9B	٠	۲	٠	0	•	٠	0	—						
										3-wire (NPN)		EV 10 V		M9NWV	M9NW	٠	•	•	0	•	•	0	IC airauit							
al	Diagnostic indication	Grommet	Yes	3-wire (PNP)	24 V	5 V, 12 V	12 V		_	—	M9PWV	M9PW	٠	•	•	0	•	٠	0	IC CIICUII	Relay,									
ate	(2-color indication)			2-wire	12 V	12 V			M9BWV	M9BW	٠	۲	٠	0	•	٠	0	—	FLU											
1 st	Water resistant (2-color indication)			Í -		Í -										3-wire (NPN)		EV 10V		M9NAV	M9NA	0	0	•	0	•	•	0	10	
Solic				3-wire (PNP)		5 V, 12 V	V, 12 V	M9PAV	M9PA	0	0	•	0	•	•	0	IC CIICUII													
																			2-wire		12 V	M9BAV	M9BA	0	0	٠	0	•	۲	0
* Lea	Lad wire landth symbols 0.5 mNil (Evampla) MONW Solid state auto switches marked with a "\" are produced upon receipt of order																													

(Example) M9NWM 1 m ····· M 3 m ----- L (Example) M9NWL 5 m Z (Example) M9NWZ

* For 2-color indication type, use caution on hysteresis. For details, refer to the standard type auto switch hysteresis

Specifications

Ту	pe	Basic type	Heat resistance	Fluororubber seal			
Fluid		Air					
Operating pressure	Double acting	0.1 to 0.7 MPa					
Ambient and flui	id 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	Bore size (mm) Gripping for Effective External		orce ^{Note1)} ce per finger value (N) Internal	Opening/ Closing stroke (Both sides) (mm)	Note 2) Weight (g)
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 center of stroke.

Note 2) Values excluding weight of auto switch.

For heat resistance

A 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.

🗥 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, specialized grease GR-F is recommended.

For fluororubber seal

A 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.



A Precautions

Parallel Style Air Gripper With Dust Cover MHZJ2-X6100



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

MHZJ2-X6100



