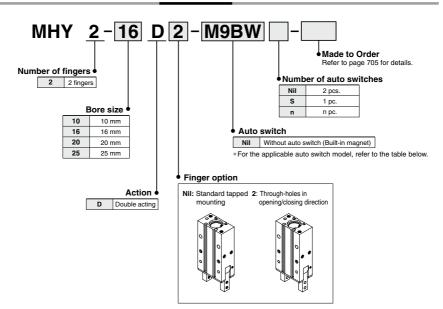
180° Angular Type Air Gripper **Cam Type** MHY2 Series Ø10, Ø16, Ø20, Ø25

How to Order



Applicable Auto Switches / Refer to pages 797 to 850 for further information on auto switches

Туре	Special function	Electrical entry	Indicator light	Wiring (Output)	Load voltage		Auto swit	ch model	nodel Le		ead wire length (m)*						
							Electrical en	try direction	0.5	1	3	5	Pre-wired connector		cable		
						DC	AC	Perpendicular	In-line	(Nil)	(M)	(L)	(Z)	Connector	load		
		_		3-wire(NPN)		5 V, 12 V		M9NV	M9N	•	•	•	0	0	IC		
id state au				3-wire(PNP)]			M9PV	M9P	•	•	•	0	0	circuit		
				2-wire			M9BV	M9B	•	•	•	0	0	_			
	Diagnosis			3-wire(NPN)	5 V. 12 V] [M9NWV	M9NW	•	•	•	0	0	IC	l		
	(2-color	Grommet	ommet Yes	3-wire(PNP)	24 V	<u> </u>	M9PWV	M9PW	•	•	•	0	0	circuit	Relay, PLC		
	indicator)			2-wire			M9BWV	M9BW	•	•	•	0	0	_	120		
	Water				3-wire(NPN)		5 V. 12 V		M9NAV**	M9NA**	0	0	•	0	0	IC	
	resistant (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.

* I earl wire length symbols: 0.5 m Nii (Example) M9NW

* Auto switches marked with a *O" symbol 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.

180° Angular Type Air Gripper MHY2 Series



Specifications

Fluid	Air			
Operating pressure	0.1 to 0.6 MPa			
Ambient and fluid temperature	−10 to 60°C			
Repeatability	±0.2 mm			
Max. operating frequency	60 c.p.m.			
Lubrication	Not required			
Action	Double acting			
Auto switch (Option) Note)	Solid state auto switch (3-wire, 2-wire)			

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

Symbol

Double acting: External grip



Made to

Made to Order

(Refer to pages 725 to 748 for details.)

_	, ,
Symbol	Specifications/Description
-X4	Heat resistance (100°C)
-X5	Fluororubber seal
-X50	Without magnet
-X53	EPDM for seals, Fluorine grease
-X63	Fluorine grease
-X79	Grease for food processing machines, Fluorine grease
-X79A	Grease for food processing machines
-X81 A	Anti-corrosive treatment of finger

Model

Model	Bore size (mm)	Effective gripping force (1) (N·m)	Opening/C (Both Opening side	losing angle sides) Closing side	Weight (2) (g)
MHY2-10D	10	0.16			70
MHY2-16D	16	0.54	<u>.</u> . [150	
MHY2-20D	20	1.10	180° -3°		320
MHY2-25D	25	2.28			560

Note 1) At the pressure of 0.5 MPa Note 2) Except auto switch

- Refer to "How to Select the Applicable Model" on page 700.
- Refer to pages 700 and 701 for the details on effective holding force and allowable overhanging distance.

MHZ

MHL

MHR

MHK

MHS

MHT

MHY

MHW -X□

MRHQ

MA D-□

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.

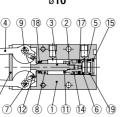
Simply connecting the moisture control tube to the actuator will prevent dew condensation from occurring. For details, refer to the IDK series in the Best Pneumatics No.6.

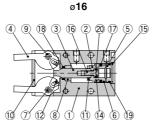
MHY2 Series

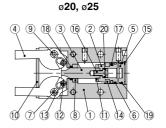
Construction

Closed condition

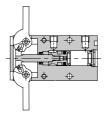
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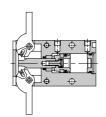


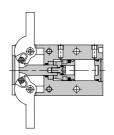




Open condition







Component Parts

No.	Description	Material	Note	
1	Body	Aluminum alloy	Hard anodized	
2	Piston	ø10: Stainless steel ø16 to 25: Aluminum alloy	ø16 to 25: Chromated	
3	Joint	Stainless steel	Heat treated	
4	Finger	Stainless steel	Heat treated	
5	Сар	Resin		
6	Wear ring	Resin		
7	Shaft	Stainless steel	Nitriding	
8	Bushing A	Sintered alloy steel		
9	Bushing B	Sintered alloy steel		
10	End plate	Stainless steel		

No.	Description	Material	Note
11	Bumper	Urethane rubber	
12 Needle roller		High carbon chrome bearing steel	
13	Joint roller	Carbon steel	Nitriding
14	Rubber magnet	Synthetic rubber	
15	Type C retaining ring	Carbon steel	Phosphate coated
16	Piston bolt	Stainless steel	
17	Piston seal	NBR	
18	Rod seal	NBR	
19	Gasket	NBR	
20	Gasket	NBR	

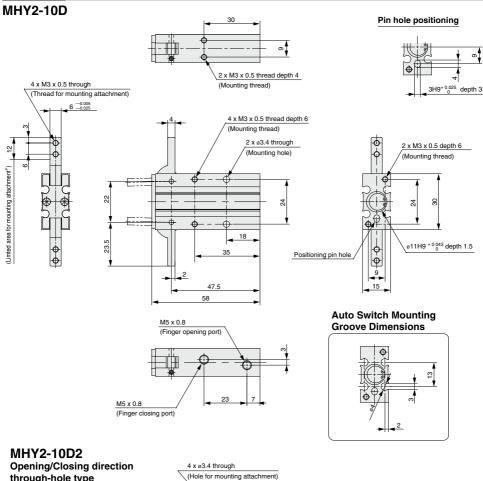
Replacement Parts

Descripti	on	MHY2-10	MHY2-16	MHY2-20	MHY2-25	Main parts	
Seal kit		MHY10-PS	MHY16-PS	MHY20-PS	MHY25-PS	<ø10> 171819	
Seai Kit		WII 11 10-1 3	WII 11 10-1 3	WII1120-1 3	WII1123-1 3	<ø16, ø20, ø25> ①181920	
Finger assembly	MHY2-□D	MHY-A1001	MHY-A1601	MHY-A2001	MHY-A2501	4.9	
riliger assembly	MHY2-□D2	MHY-A1001-2	MHY-A1601-2	MHY-A2001-2	MHY-A2501-2		
Joint assembly		MHY-A1002	MHY-A1602	MHY-A2002	MHY-A2502	<ø10, ø16> ③12	
Joint assembly		WITT-A1002	WITT-A1002 WITT-A2002		WITT-A2302	<ø20, ø25> ③1213	
Piston assembly	-	MHY-A1003	MHY-A1603	MHY-A2003	MHY-A2503	<ø10> 26114	
riston assembly		WITT-A1003	WITT-A1003	WII 11-A2003	WII 11-A2303	<ø16, ø20, ø25> ②⑥⑴⑷⑥	

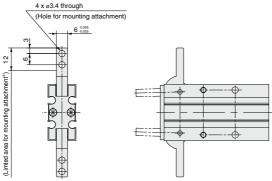
^{*} Order 1 piece of finger assembly per one unit.

Replacement part/grease pack part no. : MH-G04 (30 g)

Dimensions



through-hole type



^{*} Do not extend the attachment from limited area for mounting to avoid interference with the attachment or main body.

MHZ

MHF

MHL

MHR MHK MHS

MHC

MHT

MHY

MHW

-X□ MRHQ

MA

D-□