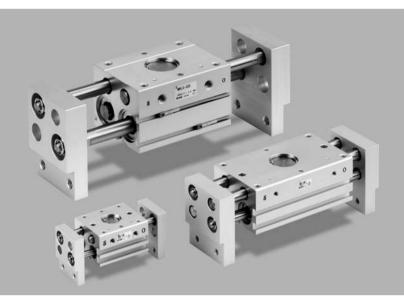
Parallel Style Air Gripper: Wide Type

Series MHL2

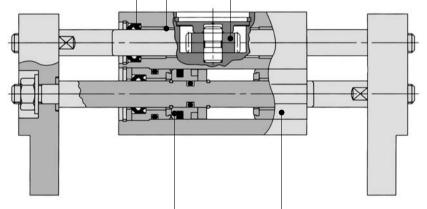


Built-in dust-protection mechanism

A scraper with a dust lip is adopted for all rod rotating parts.

Double-end type oil-impregnated resin bearings with a metal backing are used for all shafts.

Fingers synchronized by a rack and pinion mechanism.



A large amount of gripping force is provided through the use of a double piston mechanism, while maintaining a compact design.

Smaller auto switch mountable

An auto switch can be mounted at 4 locations.

Stroke Variation

Model	Bore size mm								
	10	16	20	25					
MHL2-□D	20	30	40	50					
MHL2-□D1	40	60	80	100					
MHL2-□D2	60	80	100	120					

* Values of opening/closing strokes (mm)



MHZ

MHR

MHK

MHS

MHC

MHY

MHW

-X□

MRHQ

MA



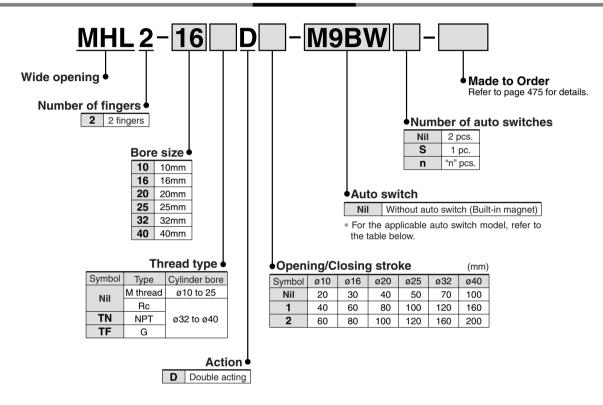


Parallel Style Air Gripper: Wide Type

Series MHL2

ø10, ø16, ø20, ø25, ø32, ø40

How to Order



Applicable Auto Switch/Refer to pages 761 to 809 for further information on the auto switches

					Load voltage		Auto switch model		Lead wire length (m) *							
			Wiring (Output)	Load vollage		Electrical entry direction		0.5	5 1	3 !	5	Pre-wired connector	Applicable load			
	g.i.	(Output)		DC	AC	Perpendicular	In-line	(Nil)	(Nil) (M)	(L) (Z	(Z)					
				3-wire (NPN)	5)/	5V.12V	M9NV	M9N	•	•	•	0	0	IC	2	
Diagnosis (2-color indication) Water resistant (2-color indication)			3-wire (PNP)		30,120	120	M9PV	М9Р	•	•	•	0	0	circuit		
				2-wire)	12V		M9BV	M9B	•	•	•	0	0	_	
				3-wire (NPN)		5V.12V		M9NWV	M9NW	•	•	•	0	0	IC	
	Grommet Yes	Yes	3-wire (PNP)	24V	30,120	12V —	M9PWV	M9PW	•	•	•	0	0	circuit Relay, PLC		
			2-wire		12V		M9BWV	M9BW	•	•	•	0	0	_		
				3-wire (NPN)	5V.	5V,12V	M9NAV	M9NA	0	0	•	0	0	IC		
				3-wire (PNP)				M9PAV	M9PA	0	0	•	0	0	circuit	
			2-wire		12V		M9BAV	M9BA	0	0	•	0	0	_		

^{*} 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

Take note of hysteresis with 2-color indication type switches. Refer to "Auto Switch Hysteresis" on page 487.

^{*} Solid state auto switches marked with "O" are produced upon receipt of order.

Parallel Style Air Gripper: Wide Type Series MHL2

Long stroke

One unit can handle workpieces with various diameters.

A large amount of gripping force is provided through the use of a double piston mechanism, while maintaining a compact design.

Double-end type oil-impregnated resin bearings with a metal backing are used for all shafts.

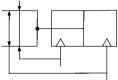
Built-in dust-protection mechanism

A high degree of freedom for mounting

Auto switch mountable



JIS Symbol





Made to Older	
(Refer to pages 683 to 713 for details.)	

Symbol	Specifications/Description
-X4	Heat resistance (100°C)
-X5	Fluororubber seal
-X28	With adjuster bolts for adjusting closing width
-X50	Without magnet
-X53	EPDM seal/Fluorine grease
-X63	Fluorine grease
-X79	Grease for food

Specifications

Bore size (mm)	10	16	20	25	32	40				
Fluid	Air									
Action	Double acting									
Operating pressure (MPa)	0.15 to 0.6 0.1 to 0.6									
Ambient and fluid temperature	-10 to 60°C									
Repeatability	± 0.1									
Lubrication	Not required									
Effective gripping force (N) Note at 0.5 MPa	14	45	74	131	228	396				

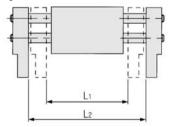
Note) Gripping point = Bore size 10, 16, 20, 25: 40 mm, Bore size 32, 40: 80 mm.

Model/Stroke

Model	Bore size (mm)	Max. operating frequency c.p.m	Opening/Closing stroke (mm) (L2-L1)		Width at opening (mm) (L2)	Mass (g)
MHL2-10D		60	20	56	76	280
MHL2-10D1	10	40	40	78	118	345
MHL2-10D2		40	60	96	156	425
MHL2-16D		60	30	68	98	585
MHL2-16D1	16	40	60	110	170	795
MHL2-16D2		40	80	130	210	935
MHL2-20D	20	60		82	122	1025
MHL2-20D1		40	80	142	222	1495
MHL2-20D2			100	162	262	1690
MHL2-25D	25	60	50	100	150	1690
MHL2-25D1		40	100	182	282	2560
MHL2-25D2		40	120	200	320	2775
MHL2-32D		30	70	150	220	2905
MHL2-32D1	32	00	120	198	318	3820
MHL2-32D2		20	160	242	402	4655
MHL2-40D		30	100	188	288	5270
MHL2-40D1	40	00	160	246	406	6830
MHL2-40D2		20	200	286	486	7905

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Note) The open and close time spans represent the value when the exterior of the workpiece is being held.



APrecautions

I Be sure to read before handling.

Refer to front matters 38 and 39 for Safety Instructions and pages 358 to 365 for Air Gripper and Auto Switch Precautions.

If a workpiece is hooked onto the attachment, make sure that excessive impact will not be created at the start and the end of the movement.

Failure to observe this precaution may result in shifting or dropping the workpiece, which could be dangerous.



475

MHZ

MHF

MHR

MHK MHS

MHC

MHT

MHY

MHW

-X□

-X□

MRHQ

MA D-□