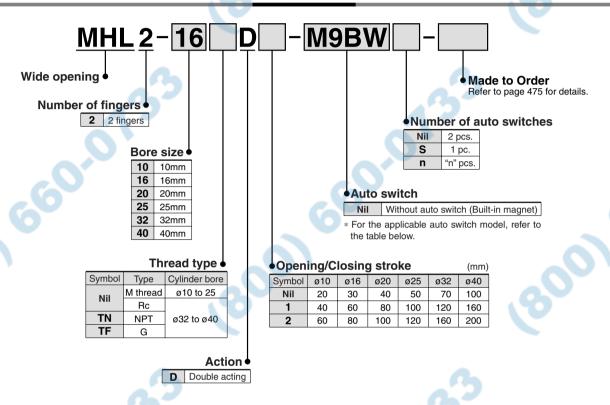
Parallel Style Air Gripper: Wide Type

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

	Special function	Electrical entry	Indicator light	Wiring (Output)	Load voltage		Auto switch model		Lead wire length (m) *							
Type							Electrical entry direction		0.5	1	3	5	Pre-wired connector	Applicable load		
						OC AC		Perpendicular	In-line	(Nil) (I	(M)	(L)	(Z)	COMMECTOR		
	Diagnosis (2-color indication)		Yes	3-wire (NPN)	5V,12V 12V 5V,12V 12V 5V,12V	5V,12V	M9NV	M9N	•	•	•	0	0	IC		
				3-wire (PNP)				M9PV	M9P	•	•	•	0	0	circuit	
switch				2-wire		12V 🧠		M9BV	M9B	•	•	•	0	0	ì	
SW				3-wire (NPN)		5V,12V _	5V 10V	M9NWV	M9NW	•	•	•	0	0	IC	5.
state				3-wire (PNP)) _	M9PWV	M9PW	•	•	•	0	0	circuit	Relay, PLC
				2-wire		12V		M9BWV	M9BW	•	•	•	0	0	_	
Solid	Water resistant (2-color indication)			3-wire (NPN)		EV 10V		M9NAV	M9NA	0	0	•	0	0	IC	
				3-wire (PNP)		,v,12v	M9PAV	М9РА	0	0	•	0	0	circuit		
				2-wire		12V		M9BAV	M9BA	0	0	•	0	0	_	

^{*} Lead wire length symbols: 0.5 m ······ Nil (Example) M9NW

660.0

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.

 $[\]ast$ 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.

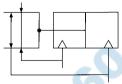
Double-end type oil-impregnated resin bearings with a metal backing are used for all shafts.

Built-in dust-protection mechanism
A high degree of freedom for mounting

Auto switch mountable



JIS Symbol





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

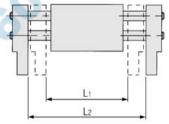
- poormounomo	N.Y								
Bore size (mm)	10	16	20	25	32	40			
Fluid	Air								
Action	Double acting								
Operating pressure (MPa)	0.15 to 0.6								
Ambient and fluid temperature	−10 to 60°C								
Repeatability	± 0.1								
Lubrication	Not required								
Effective gripping force (N) Note at 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	-V	60	30	68	98	585
MHL2-16D1	16	40	60	110	170	795
MHL2-16D2		40	80	130	210	935
MHL2-20D		60	40	82	122	1025
MHL2-20D1	20	40	80	142	222	1495
MHL2-20D2		40	100	162	262	1690
MHL2-25D		60	50	100	150	1690
MHL2-25D1	25	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

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.

⚠ Warning

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

МНС

MHT

MHY

-**X**□

MRHQ

MA D-□