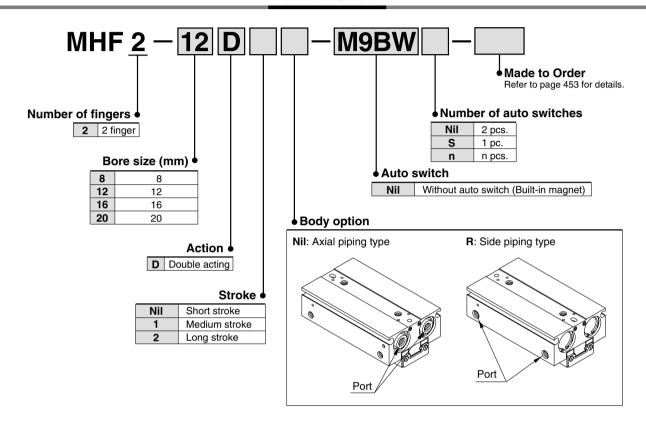
Low Profile Air Gripper

Series MHF2

How to Order



Applicable Auto Switches/Refer to pages 761 to 809 for further information on auto switches.

Applicable Auto Owitches/heler to pages 701 to 809 for futurer information on auto switches.																
Туре	Special function		٦٢		-	Load voltage		Auto switch model		Lead wire length (m)*						
			Indicator light	Wiring (Output)	Load vollage		Electrical entry direction		0.5	1	3	5	Pre-wired connector	Applica	ble load	
						DC	AC	Perpendicular	In-line	(Nil)	(M)	(L)	(Z)	COMMECTOR		
Solid state switch	_	- Grommet `	net Yes	3-wire (NPN)	5 V, 1	E V 10 V	2.1/	M9NV	M9N	•	•	•	0	0	IC	
				3-wire (PNP)		5 V, 12 V		M9PV	M9P	•	•	•	0	0	circuit	
				2-wire		12 V			M9BV	M9B	•	•	•	0	0	_
	Diagnostic indication (2-color display)			3-wire (NPN)		5 V, 12 V		M9NWV	M9NW	•	•	•	0	0	IC	PLC
				3-wire (PNP)				M9PWV	M9PW	•	•	•	0	0	circuit	
				2-wire				M9BWV	M9BW	•	•	•	0	0	_	

* Auto switches marked with "O" are made to order specification.

1 m ····· M (Example) M9NWM

3 m ····· L (Example) M9NWL

5 m ····· Z (Example) M9NWZ

Note 1) Take note of hysteresis with 2-color indication type switches. When using, refer to page 471 for auto switch hysteresis.



 $[\]ast$ Lead wire length symbols: 0.5 m $\cdots\cdots$ Nil (Example) M9NW

Low Profile Air Gripper Series MHF2



JIS Symbol
Double acting

Specifications

F	luid	Air				
Oneveting nu		ø8: 0.15 to 0.7 MPa				
Operating pr	essure	ø12 to 20: 0.1 to 0.7 MPa				
Ambient and	fluid temperature	-10 to 60°C (with no condensation)				
Repeatability	1	±0.05 mm Note 1)				
Maximum	Short stroke	120 c.p.m.				
operating	Medium stroke	120 c.p.m.				
frequency	Long stroke	60 c.p.m.				
Lubrication		Not required				
Action		Double acting				
Auto switch	(Option) Note 2)	Solid state auto switch (3-wire, 2-wire)				

Note 1) This is the value when no offset load is applied to the finger.

When an offset load is applied to the finger, the maximum value is ± 0.15 mm due to the influence of backlash of the rack and pinion.

Note 2) Refer to pages 761 to 809 for further information on auto switches.

Model

Action	Model	Cylinder	Gripping force Note 1) Effective gripping	Opening /closing stroke	Note 2) Mass	Unobstructed capacity (cm³)		
			force per finger N	(Both sides) mm	(g)	Finger open side	Finger close side	
Double acting	MHF2-8D		19	8	65	0.7	0.6	
	MHF2-8D1	8		16	85	1.1	1.0	
	MHF2-8D2			32	120	2.0	1.9	
	MHF2-12D		48	12	155	1.9	1.6	
	MHF2-12D1	12		24	190	3.3	3.0	
	MHF2-12D2			48	275	6.1	5.8	
	MHF2-16D			16	350	4.9	4.1	
	MHF2-16D1	16	90	32	445	8.2	7.4	
	MHF2-16D2			64	650	14.9	14.0	
	MHF2-20D			20	645	8.7	7.3	
	MHF2-20D1	20	141	40	850	15.1	13.7	
	MHF2-20D2			80	1,225	28.0	26.6	

Note 1) At the pressure of 0.5 MPa, when gripping point L is 20 mm. Note 2) Excluding the auto switch mass.



Made to Order Refer to pages 683 to 713 for details.

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

MHZ

MHL

MHR

MHK

MHS

MHC

MHT

MHY

MHW

-X□ MRHQ

MA

D-□

