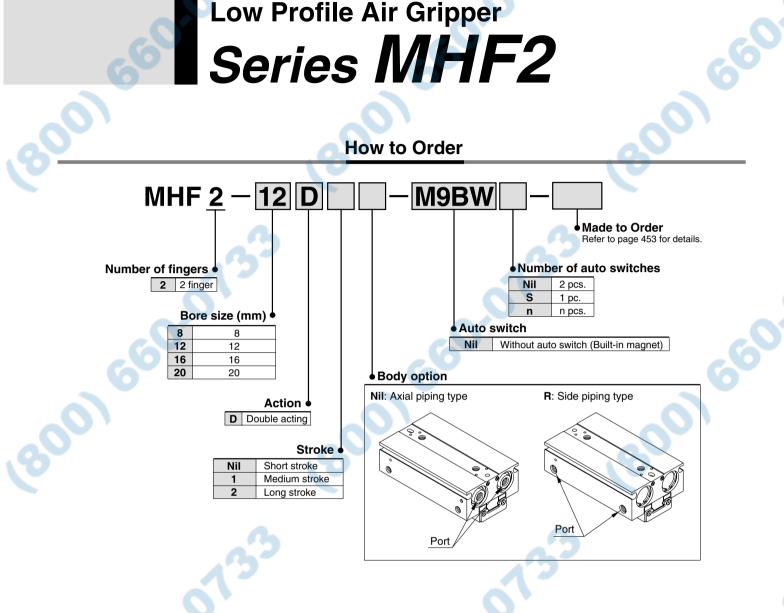
Low Profile Air Gripper Series MHF2



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

Туре	Special function	Electrical entry	Indicator light	Wiring (Output)	Load voltage		Auto swite	ch model	Lead wire		e length (m)*						
							Electrical en	try direction	0.0		3	5	Pre-wired connector	Applicable load			
						DC	AC	Perpendicular	In-line	(Nil)	(M)	(L)	(Z)	connector			
Solid state switch	_	- Grommet	Yes	3-wire (NPN)	24 V	5 V, 12 V 12 V 5 V, 12 V	-	M9NV	M9N				0	0	IC		
				3-wire (PNP)				M9PV	M9P				0	0	circuit		
				2-wire				M9BV	M9B	•			0	0	_	Relay,	
	Diagnostic			3-wire (NPN)					M9NWV	M9NW	•			0	0	IC	PLC
	indication			3-wire (PNP)				M9PWV	M9PW	•		٠	0	0	circuit		
	(2-color display)		2-wire		12 V		M9BWV	M9BW	•	•		0	0	_			
* Lead wire length symbols: 0.5 m ····· Nil (Example) M9NW * Auto switches marked with "O" are made to order specification.																	

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* Lead wire length symbols: 0.5 m Nil (Example) M9NW

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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.

Low Profile Air Gripper Series MHF2

Specifications

F	luid	Air				
Operating pro		ø8: 0.15 to 0.7 MPa				
Operating pre	essure	ø12 to 20: 0.1 to 0.7 MPa				
Ambient and	fluid temperature	 –10 to 60°C (with no condensation) 				
Repeatability		±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 bore (mm)	Gripping force ^{Note 1)} Effective gripping force per finger N	Opening /closing stroke (Both sides)	Note 2) Mass (g)	Unobstructed capacity (cm ³)	
			-	mm		open side	close side
	MHF2-8D			8	65	0.7	0.6
	MHF2-8D1	8	19	16	85	1.1	1.0
	MHF2-8D2			32	120	2.0	1.9
Double acting	MHF2-12D			12	155	1.9	1.6
	MHF2-12D1	12	48	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		20	645	8.7	7.3
	MHF2-20D1		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.

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

SMC

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MHZ MHF MHL MHR MHR MHS MHC MHC MHY MHW -X -X MRHQ MRHQ MRHQ