

Parallel Style Air Gripper: Wide Type

Series MHL2

ø10, ø16, ø20, ø25, ø32, ø40

How to Order

MHL 2-16 D -M9BW

Wide opening

Number of fingers

2	2 fingers
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Bore size

10	10mm
16	16mm
20	20mm
25	25mm
32	32mm
40	40mm

Thread type

Symbol	Type	Cylinder bore
Nil	M thread	ø10 to 25
	Rc	ø32 to ø40
TN	NPT	
TF	G	

Action

D	Double acting
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Made to Order
Refer to page 475 for details.

Number of auto switches

Nil	2 pcs.
S	1 pc.
n	"n" pcs.

Auto switch

Nil	Without auto switch (Built-in magnet)
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* For the applicable auto switch model, refer to the table below.

Opening/Closing stroke (mm)

Symbol	ø10	ø16	ø20	ø25	ø32	ø40
Nil	20	30	40	50	70	100
1	40	60	80	100	120	160
2	60	80	100	120	160	200

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

Type	Special function	Electrical entry	Indicator light	Wiring (Output)	Load voltage			Auto switch model		Lead wire length (m) *				Pre-wired connector	Applicable load	
								Electrical entry direction		0.5 (Nil)	1 (M)	3 (L)	5 (Z)			
					DC	AC	Perpendicular	In-line								
Solid state switch	—	Grommet	Yes	3-wire (NPN)	24V	5V,12V	—	M9NV	M9N	●	●	●	○	○	IC circuit	Relay, PLC
				3-wire (PNP)				M9PV	M9P	●	●	●	○	○		
	2-wire			12V	M9BV	M9B		●	●	●	○	○	—			
	3-wire (NPN)			5V,12V	M9NWV	M9NW		●	●	●	○	○	IC circuit			
	3-wire (PNP)				M9PWV	M9PW		●	●	●	○	○				
	2-wire			12V	M9BWV	M9BW		●	●	●	○	○	—			
	3-wire (NPN)			5V,12V	M9NAV	M9NA		○	○	●	○	○	IC circuit			
	3-wire (PNP)				M9PAV	M9PA		○	○	●	○	○				
	2-wire			12V	M9BAV	M9BA		○	○	●	○	○	—			

* 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

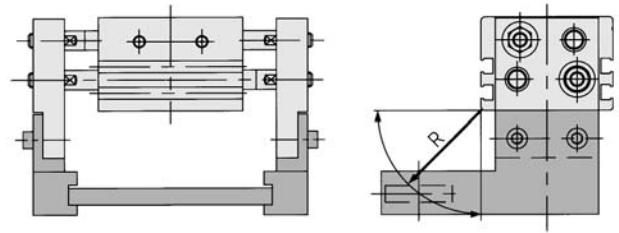
* Solid state auto switches marked with "○" are produced upon receipt of order.

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

Series MHL2

Gripping Point

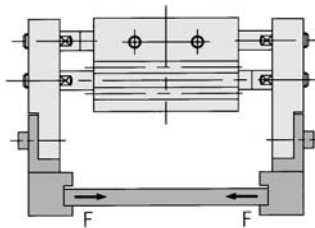
- The workpiece gripping point distance should be within the gripping force ranges given for each pressure in the effective gripping force graphs below.
- If operated with the workpiece gripping point beyond the indicated ranges, the load that will be applied to the fingers or the guide will become excessively unbalanced. As a result, the fingers could become loosened and adversely affect the service life of the unit.



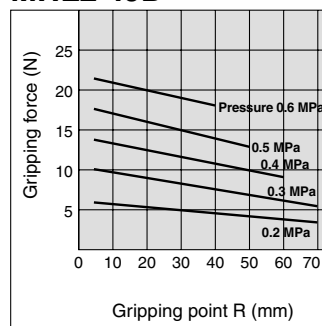
R: Gripping position (mm)

Effective Gripping Force

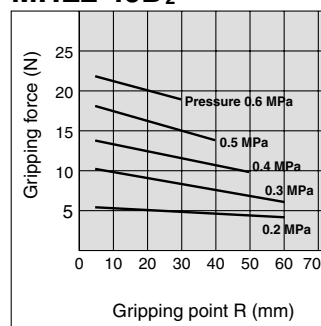
- Indication of effective gripping force**
The gripping force shown in the tables represents the gripping force of one finger when all fingers and attachments are in contact with the work.
F = one finger thrust.



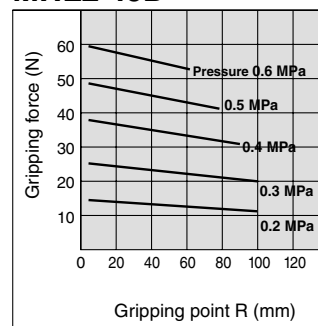
MHL2-10D



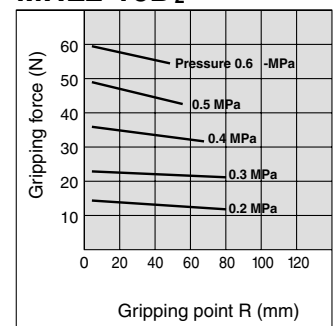
MHL2-10D₂



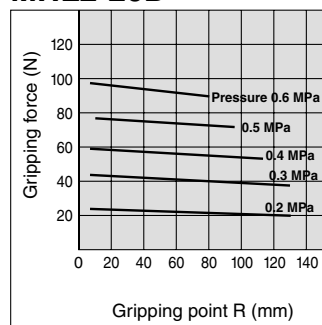
MHL2-16D



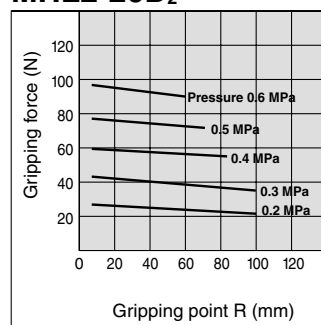
MHL2-16D₂



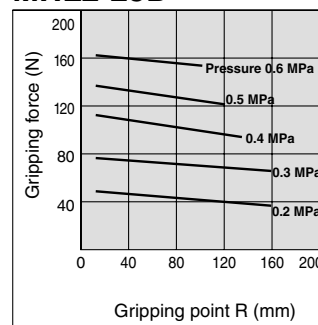
MHL2-20D



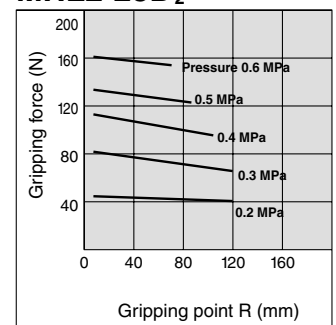
MHL2-20D₂



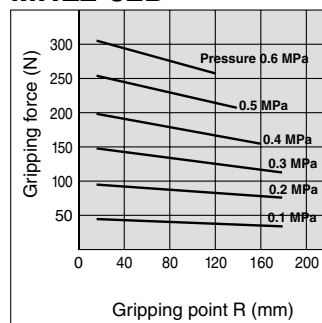
MHL2-25D



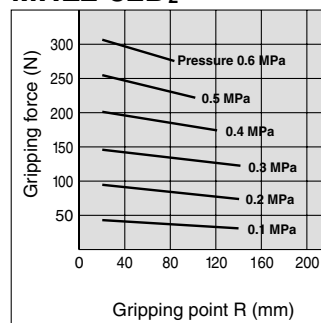
MHL2-25D₂



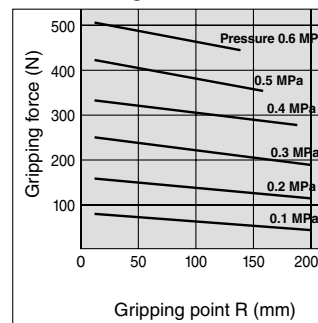
MHL2-32D



MHL2-32D₂



MHL2-40D



MHL2-40D₂

