

Angular Style Air Gripper Toggle Type

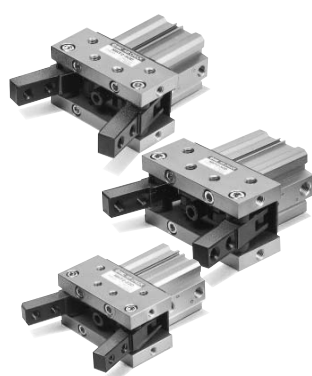
Series MHT2

Size: 32, 40, 50, 63

Ideal for gripping heavy workpiece.

The toggle mechanism holds workpiece even when pressure drops.

Auto switch is attachable.



How to Order

MHT2		32	D	F9BW	S		
Toggle type air gripper		Bore size	Action	Auto switch	Number of auto switches		
Number of fingers							
2	2 fingers						
32		32 mm		Nil	Without auto switch (Built-in magnet)	Nil	2 pcs.
40		40 mm				S	1 pc.
50		50 mm				n	"n" pcs.
63		63 mm					

Applicable Auto Switch Refer to page 12-13-1 for further information on auto switches.

Type	Special function	Electrical entry	Indicator/light	Wiring (Output)	Load voltage		Rail mounting		Direct mounting		Lead wire length (m)*				Pre-wire connector	Applicable load		
					DC	AC	Perpendicular	In-line	Perpendicular	In-line	0.5 (Nil)	3 (L)	5 (Z)	None (N)				
Reed switch	—	Grommet	Yes	3-wire (NPN equi.)	—	5 V	—	A76H	A96V	A96	●	●	—	—	—	IC circuit	Relay, PLC	
		2-wire		—	200 V	A72	A72H	—	—	●	●	—	—	—				
				12 V	100 V	A73	A73H	—	—	●	●	●	—	—				
	Connector	24 V		12 V	—	A73C	—	—	—	●	●	●	●	—	—			
	Grommet	—		—	A79W	—	—	—	●	●	—	—	—	—	—			
Solid state switch	—	Grommet	Yes	3-wire (NPN)	24 V	5 V 12 V	—	F7NV	F79	M9NV	M9N	●	●	○	—	○	IC circuit	Relay, PLC
		3-wire (PNP)		F7PV				F7P	M9PV	M9P	●	●	○	—	○			
		2-wire		F7BV				J79	M9BV	M9B	●	●	○	—	○			
				J79C				—	—	—	●	●	●	●	—	—		
	Diagnosis (2-color indication)	3-wire (NPN)		F7NWW				F79W	F9NWW	F9NW	—	●	○	—	○	○	IC circuit	
		3-wire (PNP)		—				F7PW	F9PW	F9PW	●	●	○	—	○			
		2-wire		F7BWW				J79W	F9BWW	F9BW	●	●	○	—	○			
				—				F7BA	—	F9BA	—	●	○	—	○			
	Water resistant (2-color indication)	Grommet		2-wire	12 V	—	—	—	—	●	○	—	—	—	—			
	With diagnosis output (2-color indication)	4-wire (NPN)		5 V 12 V	—	—	—	●	●	○	—	○	IC circuit					

* Lead wire length symbols: 0.5 m Nil (Example) F9BW
3 m L (Example) F9BWL
5 m Z (Example) F9BWZ
None N (Example) J79CN



Refer to page 12-13-25 for auto switch specifications.

Switch Mounting Bracket Part No.

Bore size (mm)	Bracket no.	Note	Applicable auto switch
32, 40, 50, 63	BQ-2	- Switch mounting screw (M3 x 0.5 x 10) - Switch spacer - Switch mounting nut.	Reed switch D-A7/A8 D-A73C/A80C D-A7CH/A80H D-A79W Solid state switch D-F7C/J79 D-F7C/V D-J79C D-F7C/W/J79W D-F7C/WV D-F7BAL/F78AVL D-F79F

Model/Specifications

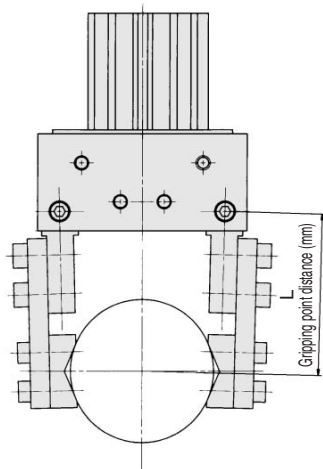
Model	MHT2-32D	MHT2-40D	MHT2-50D	MHT2-63D
Bore size (mm)	32	40	50	63
Action	Double acting			
Fluid	Air			
Operating pressure	0.1 to 0.6 MPa			
Ambient and fluid temperature	5 to 60°C			
Lubrication	Not required			
Finger opening angle (Total)	-3 to 28°	-3 to 27°	-2 to 23°	-2 to 23°
Weight (kg)	0.80	1.09	1.93	2.8
Gripping moment (Note)	12.4	36.0	63.0	106
(Effective value) (N-m)				



Note) At the pressure of 0.5 MPa

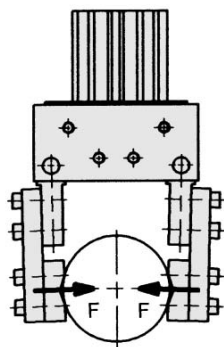
Effective Gripping Force

- Workpiece gripping point should be within the range indicated in the graph.



Indication of effective gripping force

The effective gripping force shown in the graphs to the right is expressed as F , which is the thrust of one finger, when both fingers and attachments are in full contact with the workpiece as shown in the figure below.



⚠ Precautions

Be sure to read before handling.
Refer to pages 12-15-3 to 12-15-4 for Safety Instructions and Common Precautions on the product mentioned in this catalog, and refer to pages 12-1-4 to 12-1-6 for Precautions on every series.

⚠ Warning

Maintenance

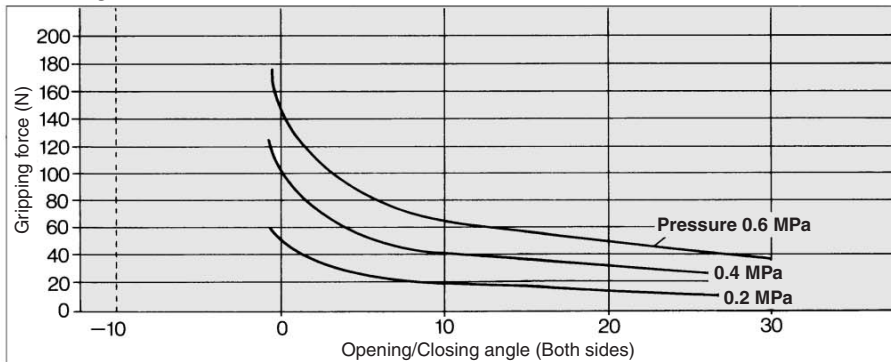
If a workpiece is to be gripped by using the toggle, make sure to periodically check that the workpiece has not shifted during the acceleration of the movement.
If the workpiece is not gripped in a stable manner, it could shift or drop and create a dangerous situation.

If the workpiece is not gripped in a stable manner, use shims on the attachment to adjust the gripped.

To verify the gripping condition or to make any adjustments, make sure to do so in an area where the air gripper or the workpiece will not fall.

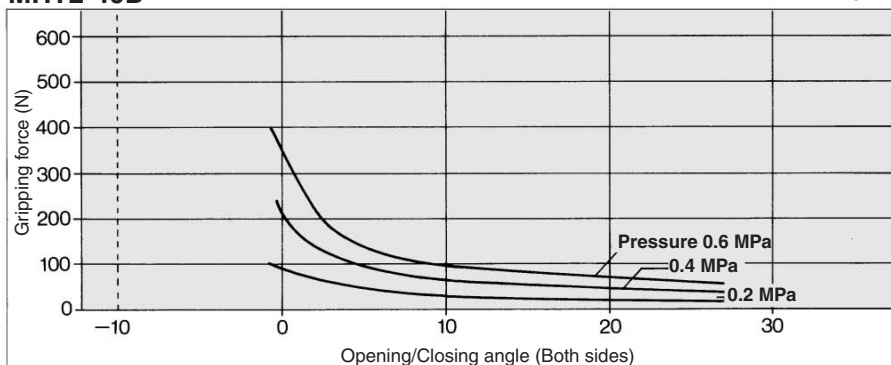
MHT2-32D

$L = 100 \text{ mm}$



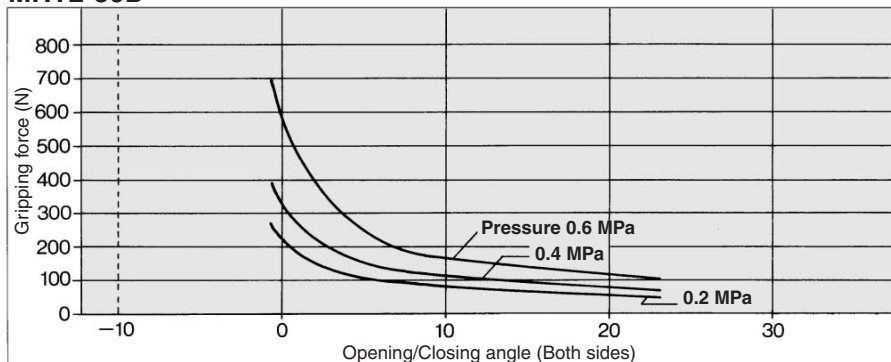
MHT2-40D

$L = 120 \text{ mm}$



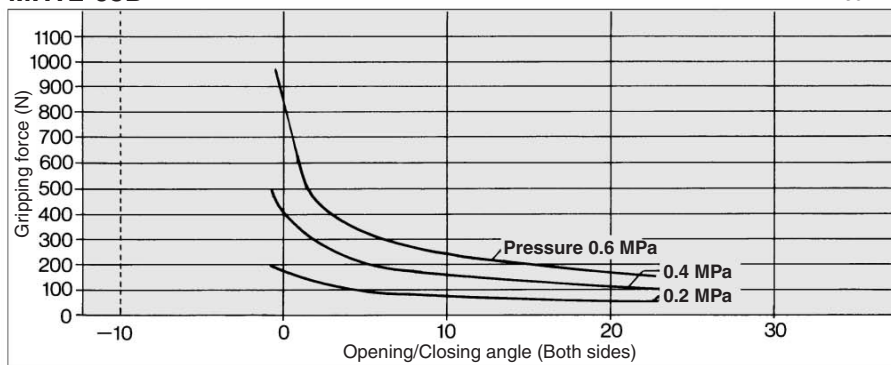
MHT2-50D

$L = 150 \text{ mm}$



MHT2-63D

$L = 180 \text{ mm}$



MHZ

MHF

MHL

MHR

MHK

MHS

MHC

MHT

MHY

MHW

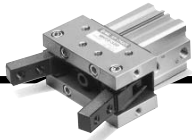
MRHQ

Misc.

D-

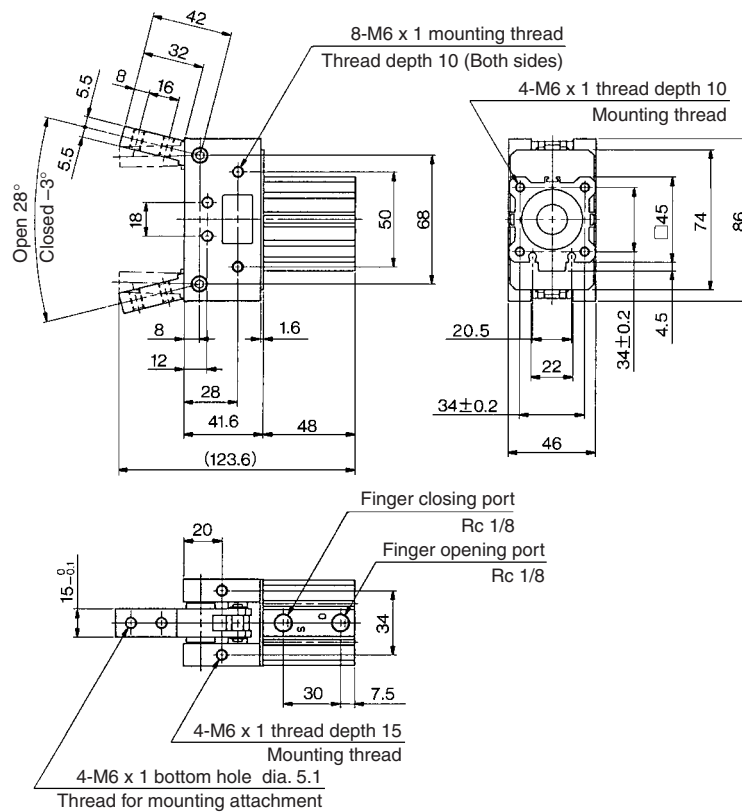
20-

Series MHT2



Dimensions

MHT2-32D



MHT2-40D

