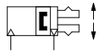
MHZ Series Parallel Type Air Gripper

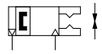




Double acting: Internal grip



Double acting: External grip



Single acting/
Normally closed: Internal grip



Single acting/
Normally open: External grip



Ordering Code

MHZ2 - 32 D □

- MHZ2 — Number of fingers: 2: 2 fingers
- 32 — Bore size: 6: 6mm; 10: 10mm; 16: 16mm; 20: 20mm; 25: 25mm; 32: 32mm; 40: 40mm
- D — Action: D: Double acting; S: Single acting (Normally open); C: Single acting (Normally closed)
- □ — Finger option: Nil: Basic type (Standard); 1: Side tapped mounting; 2: Through-holes in opening/closing direction; 3: Flat type fingers

Specifications

Working medium			Air
Operating pressure	Double acting		Φ6: 0.15 to 0.7 MPa Φ10: 0.2 to 0.7 MPa Φ16 to Φ40: 0.1 to 0.7 MPa
	Single acting	Normally open	Φ6: 0.3 to 0.7 MPa Φ10: 0.35 to 0.7 MPa Φ16 to Φ40: 0.25 to 0.7 MPa
		Normally closed	
Working temperature			-10 to 60°C
Repeatability			Φ6 to Φ25: ±0.01 mm Φ32, Φ40: ±0.02 mm
Max. operating frequency			Φ6 to Φ25: 180 c.p.m. Φ32, Φ40: 60 c.p.m.
Lubrication			Not required
Action			Double acting/Single acting

* Use the gripper with dust cover when used in a place where there may be dust.

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MHZ Series Parallel Type Air Gripper

Specifications

Model

Action		Model	Bore size (mm)	Gripping force*		Opening/ Closing stroke (Both sides) (mm)	Weight (g)
				Gripping force per finger Effective value (N)			
				External	Internal		
Double acting		MHZ2-6D	6	3.3	6.1	4	27
		MHZ2-10D(N)	10	11	17	4	55
		MHZ2-16D(N)	16	34	45	6	115
		MHZ2-20D(N)	20	42	66	10	230
		MHZ2-25D(N)	25	65	104	14	420
		MHZ2-32D	32	158	193	22	715
		MHZ2-40D	40	254	318	30	1275
Single acting	Normally open	MHZ2-6S	6	1.9	—	4	27
		MHZ2-10S(N)	10	7.1		4	55
		MHZ2-16S(N)	16	27		6	115
		MHZ2-20S(N)	20	33		10	235
		MHZ2-25S(N)	25	45		14	425
		MHZ2-32S	32	131		22	760
		MHZ2-40S	40	217		30	1370
	Normally closed	MHZ2-6C	6	—	3.7	4	27
		MHZ2-10C(N)	10		13	4	55
		MHZ2-16C(N)	16		38	6	115
		MHZ2-20C(N)	20		57	10	235
		MHZ2-25C(N)	25		83	14	425
		MHZ2-32C	32		161	22	760
		MHZ2-40C	40		267	30	1370

* Values based on pressure of 0.5 MPa, gripping point L = 20 mm, at center of stroke.

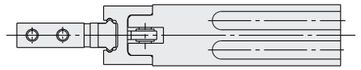
MHZ Series Parallel Type Air Gripper

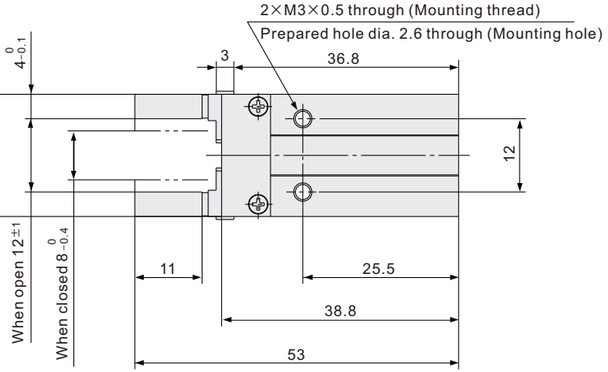
Main Dimension

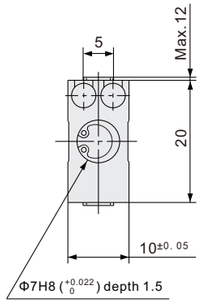
MHZ2-6☐ Double acting/Single acting

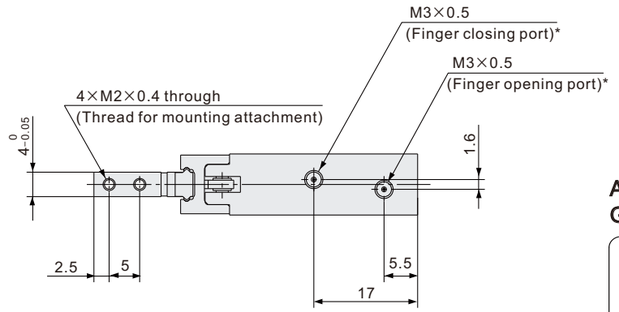
Basic type

Use the MHZJ2 series with a dust cover when used in a place where there may be dust.



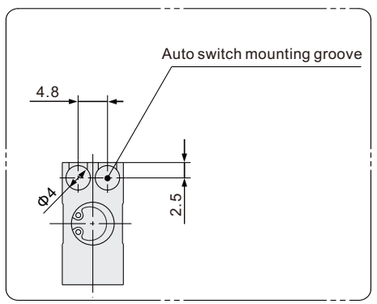






* For single action, the port on one side is a breathing hole.

Auto Switch Mounting Groove Dimensions



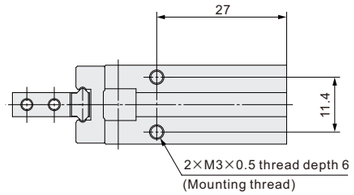
MHZ Series Parallel Type Air Gripper

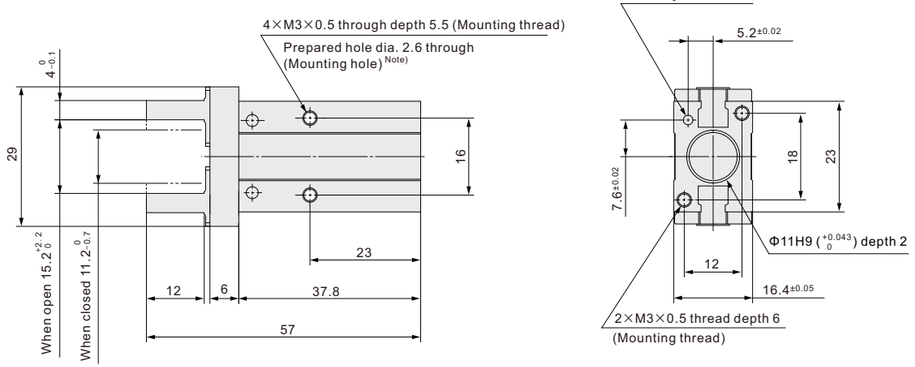
Main Dimension

MHZ2-10☐ Double acting/Single acting

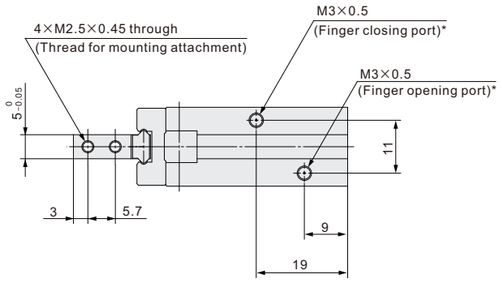
Basic type

Use the MHZJ2 series with a dust cover when used in a place where there may be dust.



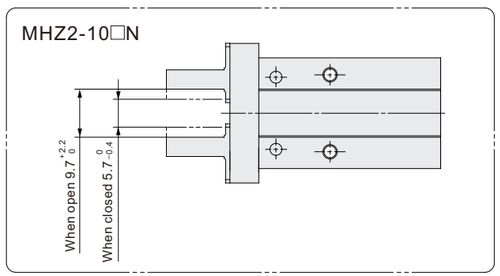


Note) When using auto switches, through hole mounting is not possible.

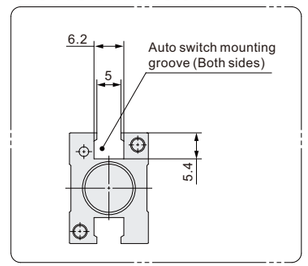


* For single action, the port on one side is a breathing hole.

Finger Position/Narrow Type



Auto Switch Mounting Groove Dimensions



Note) When using auto switches,
through hole mounting is not possible.

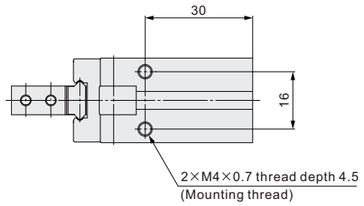
MHZ Series Parallel Type Air Gripper

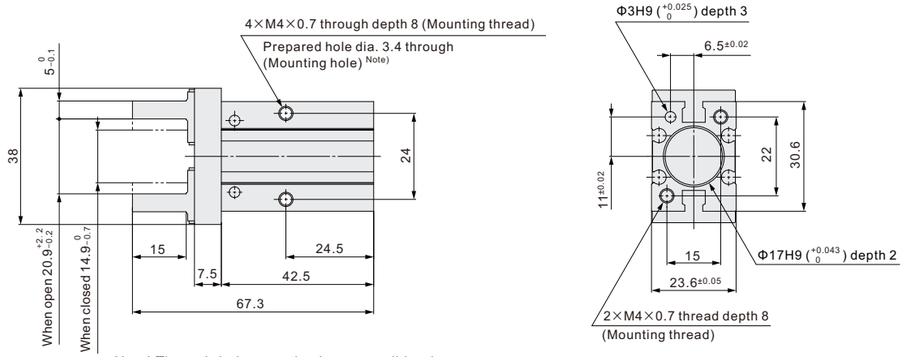
Main Dimension

MHZ2-16□ Double acting/Single acting

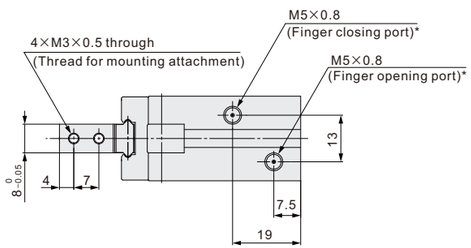
Basic type

Use the MHZJ2 series with a dust cover when used in a place where there may be dust.



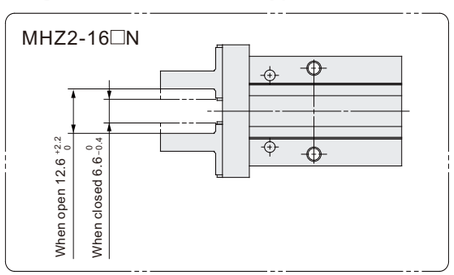


Note) Through-hole mounting is not possible when using the auto switch at the square groove.

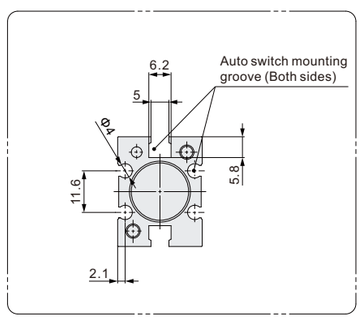


* For single action, the port on one side is a breathing hole.

Finger Position/Narrow Type



Auto Switch Mounting Groove Dimensions



Note) Through-hole mounting is not possible when using the auto switch at the square groove.

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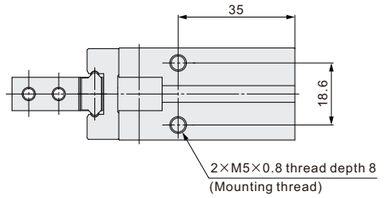
MHZ Series Parallel Type Air Gripper

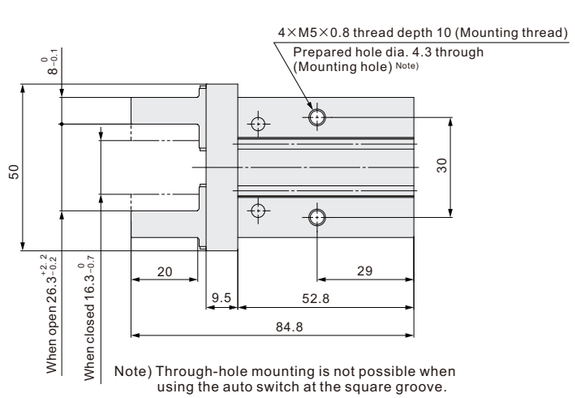
Main Dimension

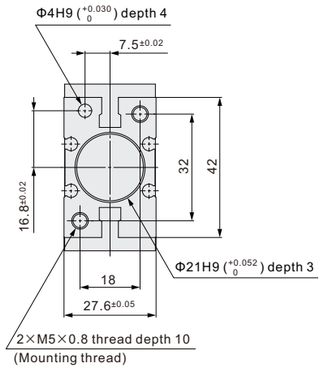
MHZ2-20□ Double acting/Single acting

Basic type

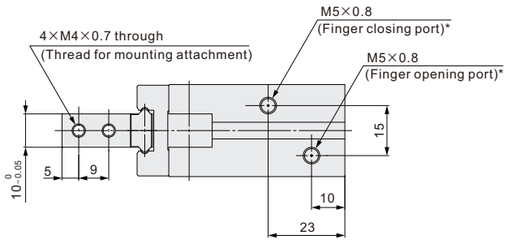
Use the MHZJ2 series with a dust cover when used in a place where there may be dust.





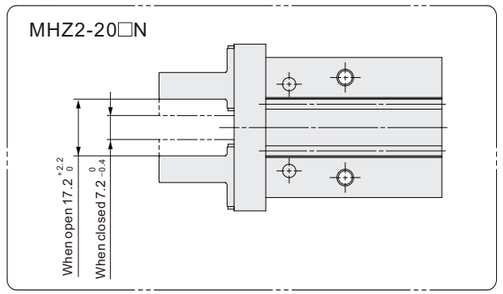


Note) Through-hole mounting is not possible when using the auto switch at the square groove.

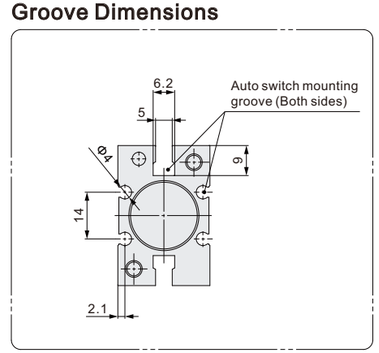


* For single action, the port on one side is a breathing hole.

Finger Position/Narrow Type



Auto Switch Mounting Groove Dimensions



Note) Through-hole mounting is not possible when using the auto switch at the square groove.

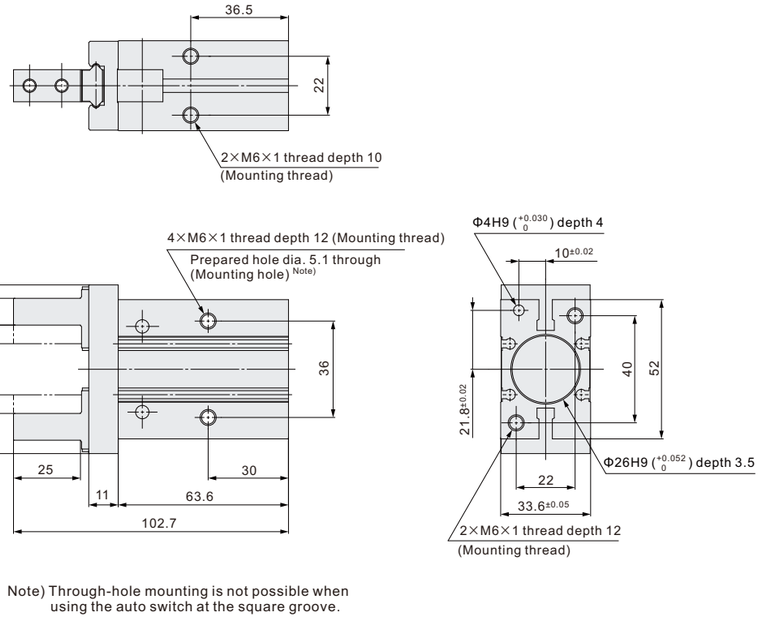
MHZ Series Parallel Type Air Gripper

Main Dimension

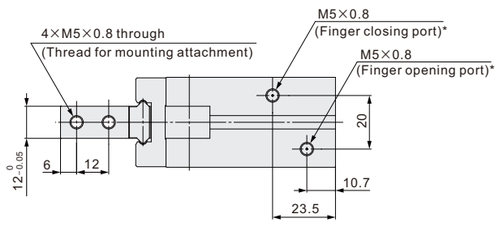
MHZ2-25□ Double acting/Single acting

Basic type

Use the MHZJ2 series with a dust cover when used in a place where there may be dust.

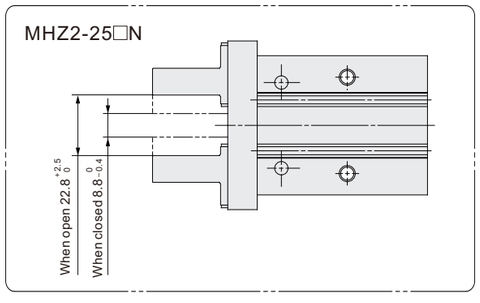


Note) Through-hole mounting is not possible when using the auto switch at the square groove.

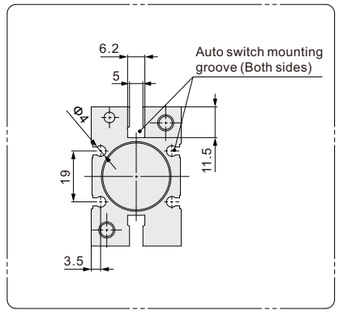


* For single action, the port on one side is a breathing hole.

Finger Position/Narrow Type



Auto Switch Mounting Groove Dimensions



Note) Through-hole mounting is not possible when using the auto switch at the square groove.

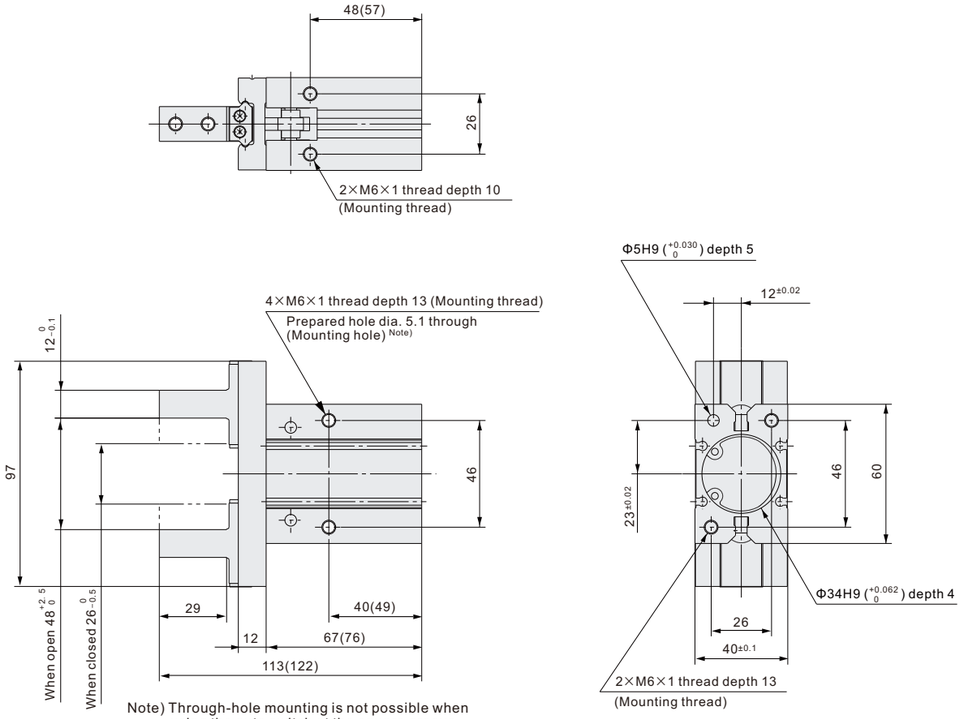
MHZ Series Parallel Type Air Gripper

Main Dimension

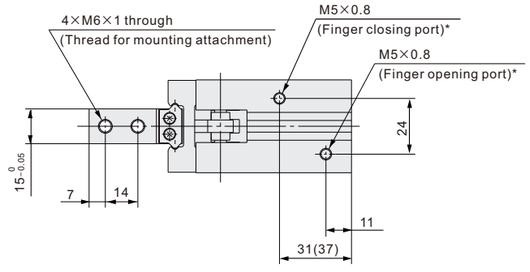
MHZ2-32□ Double acting/Single acting

Basic type

The values inside ( ) are dimensions for the single acting type.

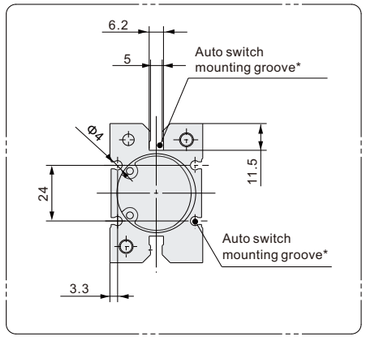


Note) Through-hole mounting is not possible when using the auto switch at the square groove.



* For single action, the port on one side is a breathing hole.

Auto Switch Mounting Groove Dimensions



* Through-hole mounting is not possible when using the auto switch at the square groove.

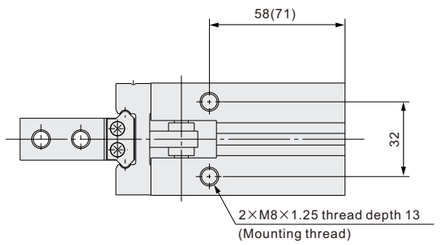
MHZ Series Parallel Type Air Gripper

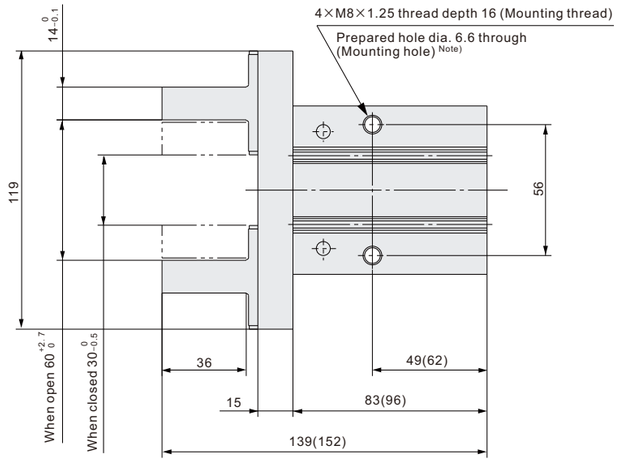
Main Dimension

MHZ2-40□ Double acting/Single acting

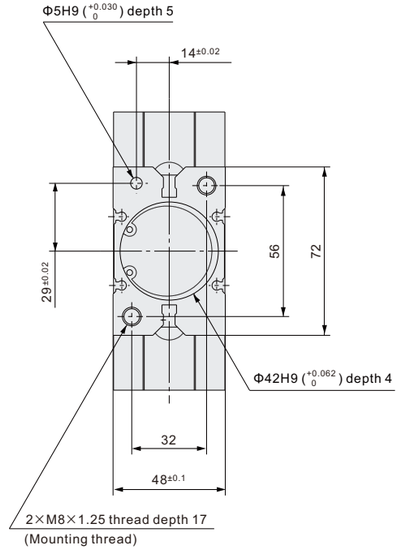
Basic type

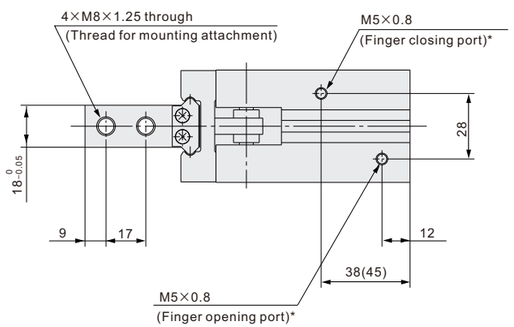
The values inside ( ) are dimensions for the single acting type.





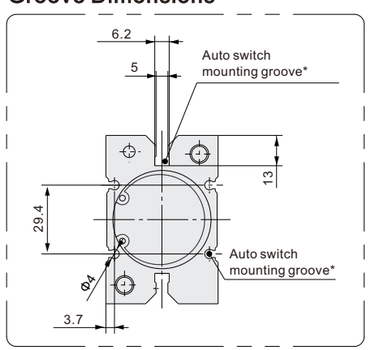
Note) Through-hole mounting is not possible when using the auto switch at the square groove.





* For single action, the port on one side is a breathing hole.

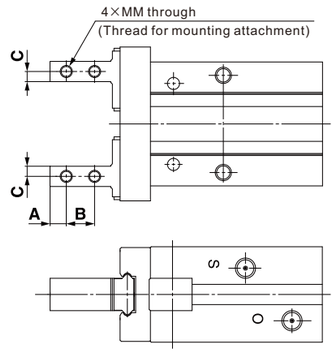
Auto Switch Mounting Groove Dimensions



* Through-hole mounting is not possible when using the auto switch at the square groove.

MHZ Series Standard Type Finger Option

Side Tapped Mounting [1/N1]

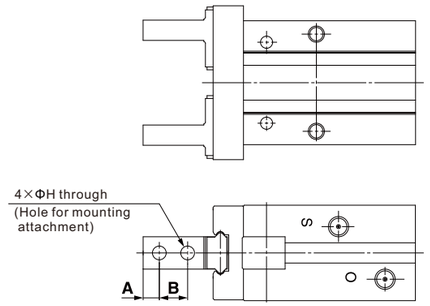


(mm)

Model	A	B	C	MM
MHZ2-6□1	2.5	5	2	M2×0.4
MHZ2-10□$^{1}_{N1}$□	3	5.7	2	M2.5×0.45
MHZ2-16□$^{1}_{N1}$□	4	7	2.5	M3×0.5
MHZ2-20□$^{1}_{N1}$□	5	9	4	M4×0.7
MHZ2-25□$^{1}_{N1}$□	6	12	5	M5×0.8
MHZ2-32□1□	7	14	6	M6×1
MHZ2-40□1□	9	17	7	M8×1.25

* Specifications and dimensions other than the above are the same as the basic type (including narrow type).

Through-holes in Opening/ Closing Direction [2/N2]

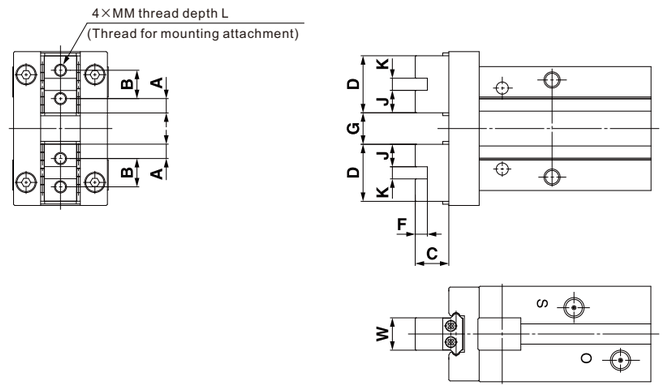


(mm)

Model	A	B	H
MHZ2-6□2	2.5	5	2.4
MHZ2-10□$^{2}_{N2}$□	3	5.7	2.9
MHZ2-16□$^{2}_{N2}$□	4	7	3.4
MHZ2-20□$^{2}_{N2}$□	5	9	4.5
MHZ2-25□$^{2}_{N2}$□	6	12	5.5
MHZ2-32□2□	7	14	6.6
MHZ2-40□2□	9	17	9

* Specifications and dimensions other than the above are the same as the basic type (including narrow type).

Flat Type Fingers [3]



Model	A	B	C	D	F	G Open	G Closed	J	K	MM	L	W	Weight (g)
MHZ2-6□3	2	3.5	7.2	7.5	—	$5^{+1.2}_{0}$	$1^{+0.2}_{0}$	—	—	M2×0.4	3	$4^{0}_{-0.05}$	26
MHZ2-10□3□	2.45	6	5.2	10.9	2	$5.4^{+2.2}_{0}$	$1.4^{0}_{-0.2}$	4.45	2H9 ($^{+0.025}_{0}$)	M2.5×0.45	5	$5^{0}_{-0.05}$	55
MHZ2-16□3□	3.05	8	8.3	14.1	2.5	$7.4^{+2.2}_{0}$	$1.4^{0}_{-0.2}$	5.8	2.5H9 ($^{+0.025}_{0}$)	M3×0.5	6	$8^{0}_{-0.05}$	115
MHZ2-20□3□	3.95	10	10.5	17.9	3	$11.6^{+2.3}_{0}$	$1.6^{0}_{-0.2}$	7.45	3H9 ($^{+0.025}_{0}$)	M4×0.7	8	$10^{0}_{-0.05}$	225(230)
MHZ2-25□3□	4.9	12	13.1	21.8	4	$16^{+2.5}_{0}$	$2^{0}_{-0.2}$	8.9	4H9 ($^{+0.030}_{0}$)	M5×0.8	10	$12^{0}_{-0.05}$	410(415)
MHZ2-32□3□	7.3	20	18	34.6	5	$25^{+2.7}_{0}$	$3^{0}_{-0.2}$	14.8	5H9 ($^{+0.030}_{0}$)	M6×1	12	$15^{0}_{-0.05}$	740(785)
MHZ2-40□3□	8.7	24	22	41.4	6	$33^{+2.9}_{0}$	$3^{0}_{-0.2}$	17.7	6H9 ($^{+0.030}_{0}$)	M8×1.25	16	$18^{0}_{-0.05}$	1335(1430)

*1) To mount attachments, use JISB1101 type M2 round head screws.
Be careful not to use commercially available M2 hexagon socket head cap bolt as its top diameter is large.
*2) Specifications and dimensions other than the above are the same as the basic type (including narrow type).
*3) The overall length is the same as the MHQ(G) flat finger type.
*4) The values inside ( ) are for the single acting type.