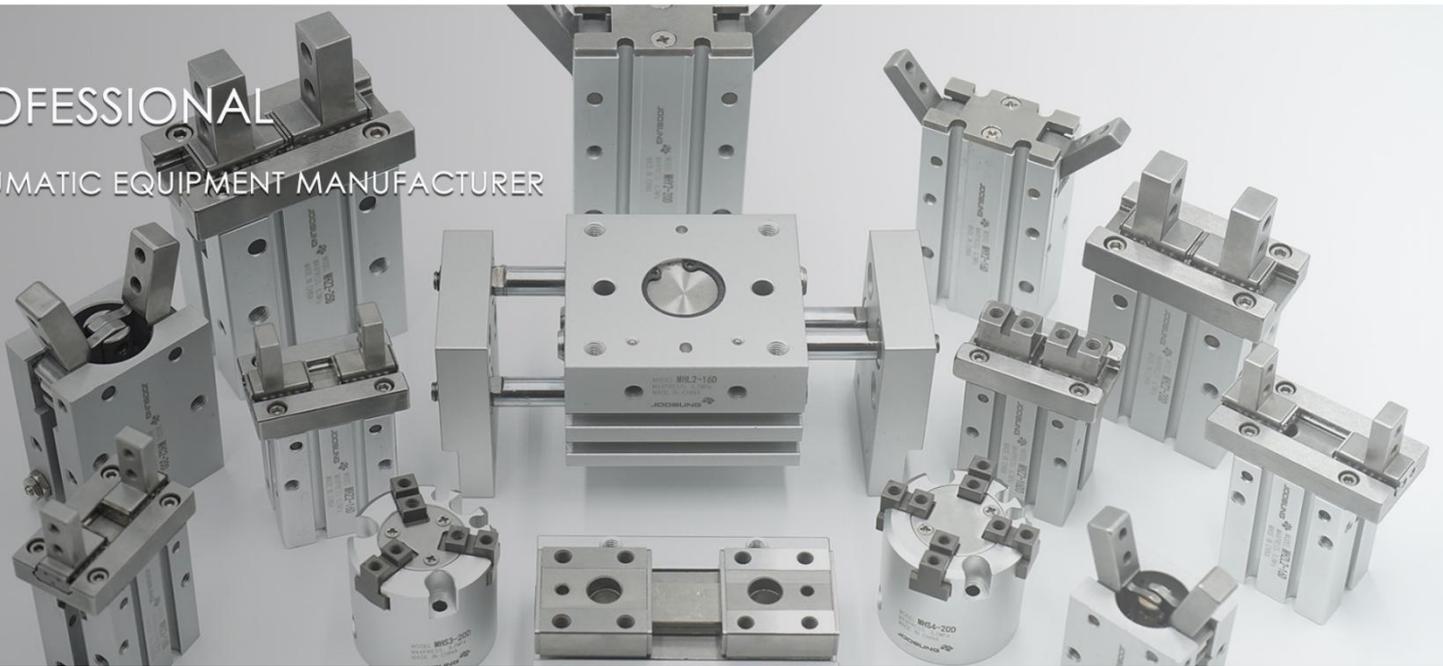


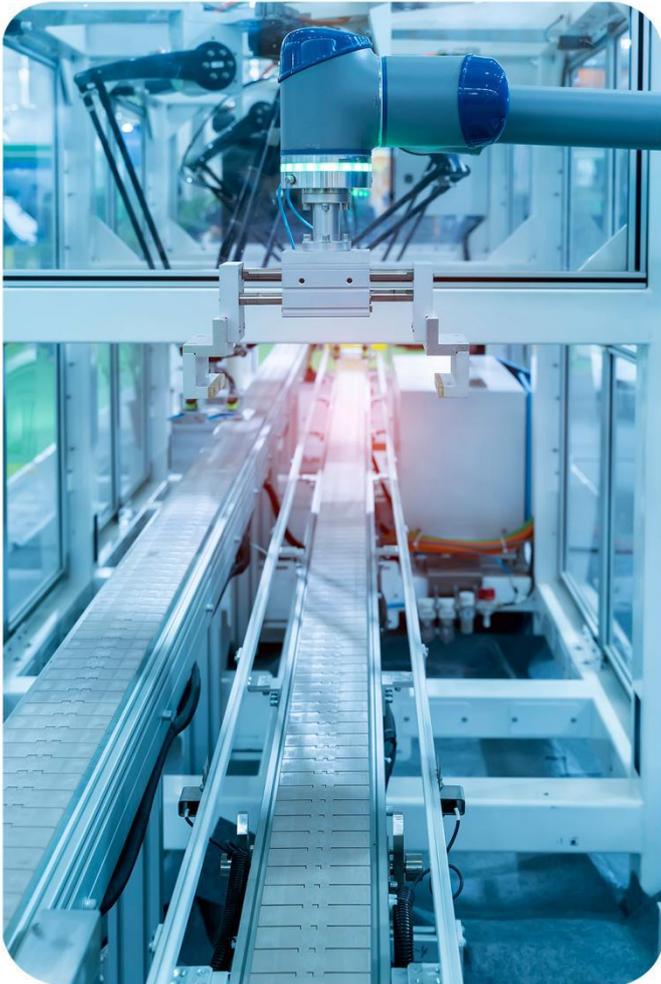


PROFESSIONAL
PNEUMATIC EQUIPMENT MANUFACTURER



Wenzhou Qiaosen Pneumatic Co., Ltd

Pneumatic gripper



How to Order

Bore size

ø10 to ø25 MHZ2-16 D - M9BW

Number of fingers
2 2 fingers

Bore size

10	10 mm
16	16 mm
20	20 mm
25	25 mm

Action

D	Double acting
S	Single acting (Normally open)
C	Single acting (Normally closed)

Finger position/option

Standard (MHQG2 compatible type)

Nil: Basic type

1: Side tapped mounting

2: Through-holes in opening/closing direction

3: Flat type fingers
The flat type fingers do not have standard and narrow options. When MHQG2/MHQ2 compatible types are required, see the -X51 made-to-order specifications on page 460.

Narrow type (MHQ2 compatible type)

N: Basic type

N1: Side tapped mounting

N2: Through-holes in opening/closing direction

Auto switch

Nil	Without auto switch (Built-in magnet)
-----	---------------------------------------

* For the applicable auto switch model, refer to the table below.

Number of auto switches

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

Body option

Nil: Basic type

E: End boss type Side ported (Double acting/Single acting)

W: End boss type Axial ported ø4 One-touch fitting for coaxial tubing (Double acting)

K: End boss type Axial ported with ø4 One-touch fitting (Single acting)

M: End boss type Axial ported with M5 port (Single acting)

How to Order

Bore size

ø32 to ø40 MHZ2-32 D - M9BW

Number of fingers
2 2 fingers

Bore size

32	32 mm
40	40 mm

Action

D	Double acting
S	Single acting (Normally open)
C	Single acting (Normally closed)

Auto switch

Nil	Without auto switch (Built-in magnet)
-----	---------------------------------------

* For the applicable auto switch model, refer to the table below.

Number of auto switches

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

Finger option

[Standard] Nil: Basic type

1: Side tapped mounting

2: Through-holes in opening/closing direction

3: Flat type fingers

Specifications

Fluid		Air	
Operating pressure	Double acting	ø6: 0.15 to 0.7 MPa ø10: 0.2 to 0.7 MPa ø16 to ø40: 0.1 to 0.7 MPa	
	Single acting	Normally open	ø6: 0.3 to 0.7 MPa
Normally closed		ø10: 0.35 to 0.7 MPa ø16 to ø40: 0.25 to 0.7 MPa	
Ambient and fluid temperature		-10 to 60°C	
Repeatability		ø6 to ø25: ±0.01 mm ø32, ø40: ±0.02 mm	
Max. operating frequency		ø6 to ø25: 180 c.p.m. ø32, ø40: 60 c.p.m.	
Lubrication		Not required	
Action		Double acting/Single acting	
Auto switch (Option) ^{Note)}		Solid state auto switch (3-wire, 2-wire)	

Note) Refer to pages 797 to 850 for further information on auto switches.
* Use the gripper with dust cover when used in a place where there may be dust.

Model

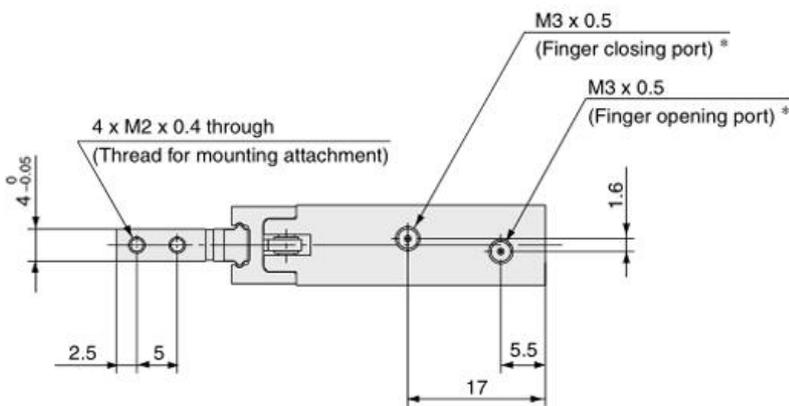
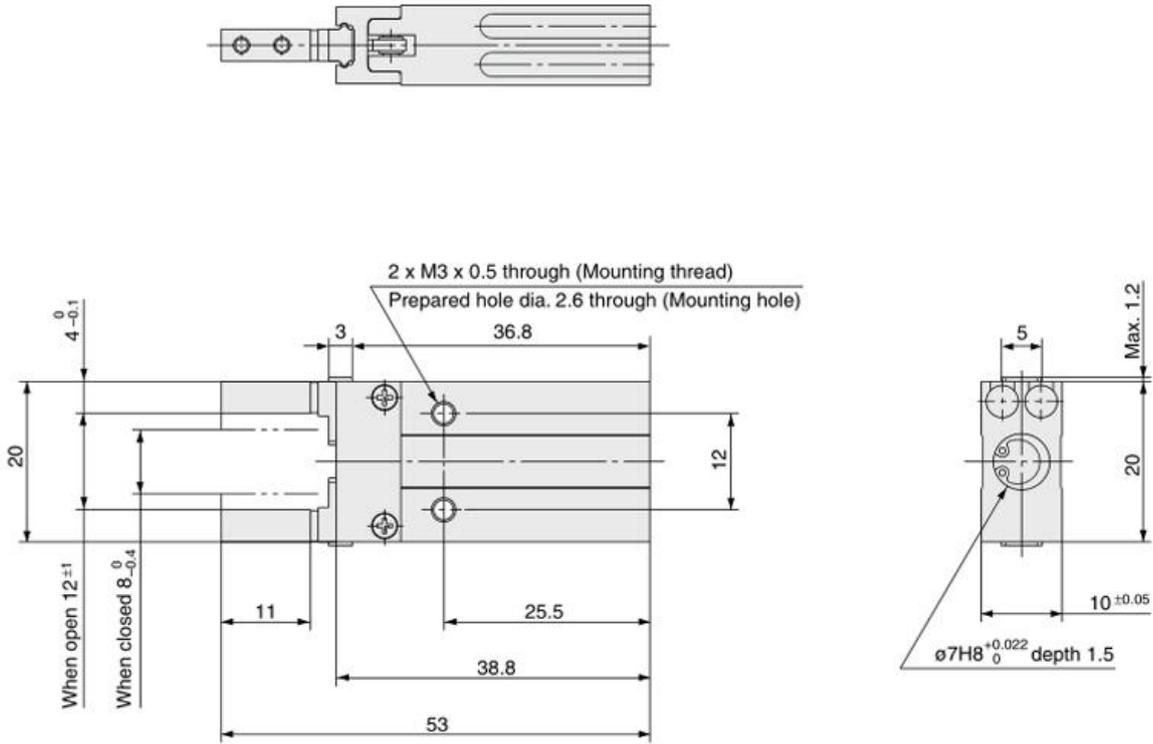
Action	Model	Bore size (mm)	Gripping force ^{Note 1)}		Opening/Closing stroke (Both sides) (mm)	Weight ^{Note 2)} (g)	
			Gripping force per finger Effective value (N)				
			External	Internal			
Double acting	MHZ2-6D	6	3.3	6.1	4	27	
	MHZ2-10D(N)	10	11	17	4	55	
	MHZ2-16D(N)	16	34	45	6	115	
	MHZ2-20D(N)	20	42	66	10	230	
	MHZ2-25D(N)	25	65	104	14	420	
	MHZ2-32D	32	158	193	22	715	
Single acting	MHZ2-40D	40	254	318	30	1275	
	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
	Normally closed	MHZ2-40S	40	217	30	1370	
		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	

Note 1) Values based on pressure of 0.5 MPa, gripping point L = 20 mm, at center of stroke.
Note 2) Values excluding weight of auto switch.

Dimensions

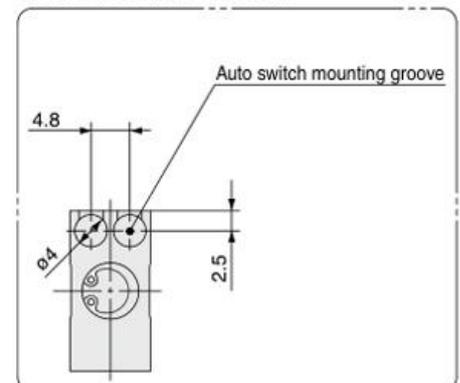
**MHZ2-6□ Double acting/Single acting
Basic type**

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



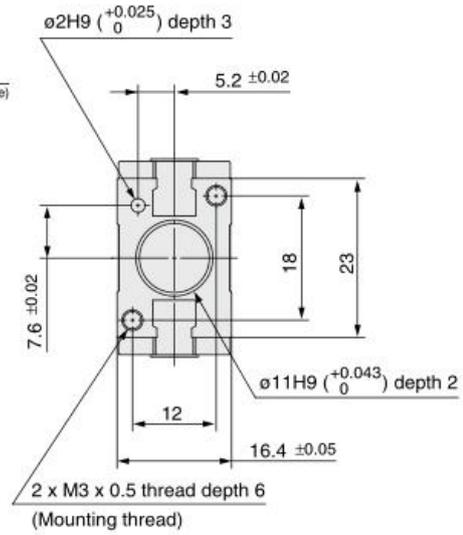
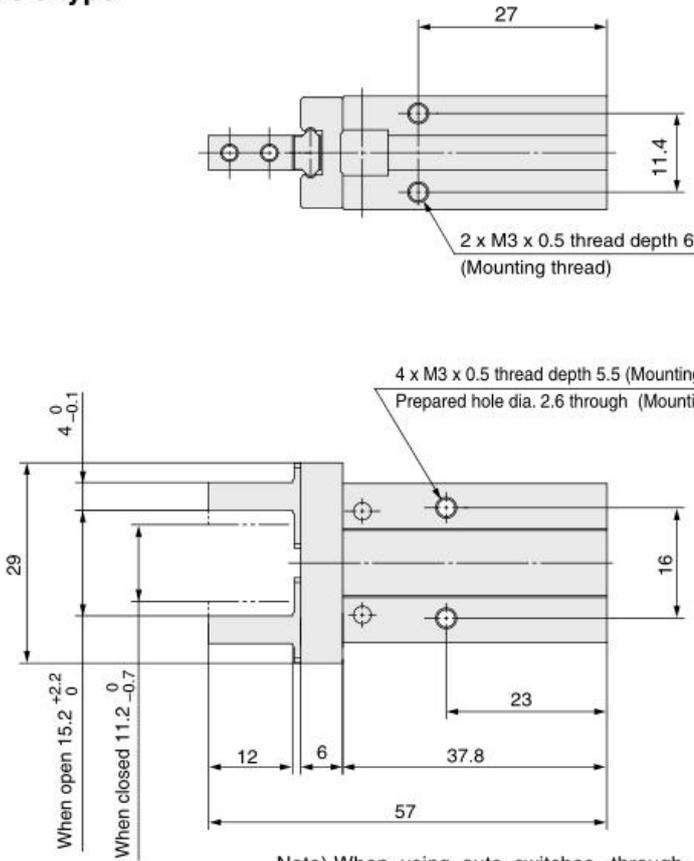
* For single action, the port on one side is a breathing hole.

**Auto Switch Mounting
Groove Dimensions**

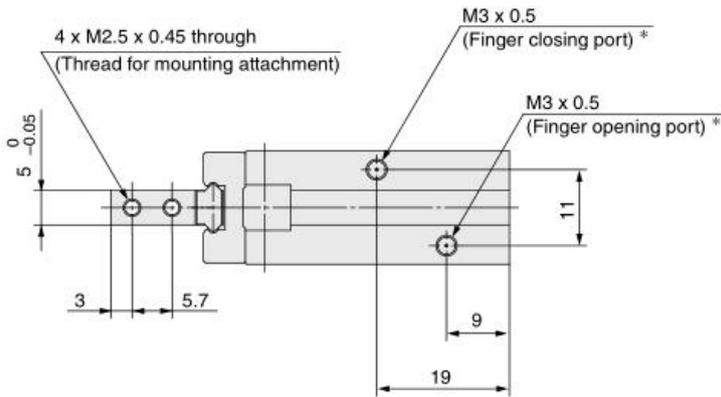


Use the MHZJ2 series with a dust cover when used in a place where there may be dust.

MHZ2-10□ Double acting/Single acting Basic type

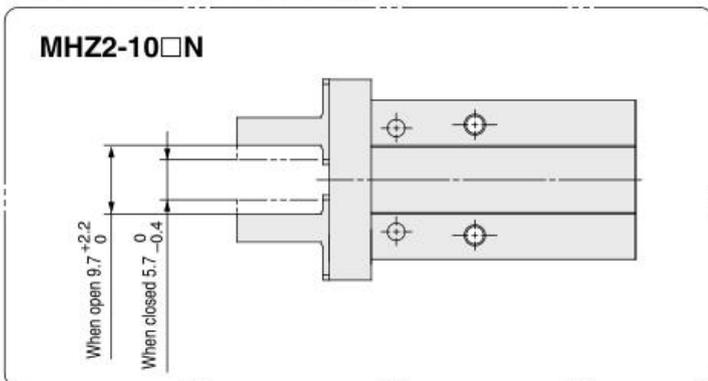


Note) When using auto switches, through-hole mounting is not possible.

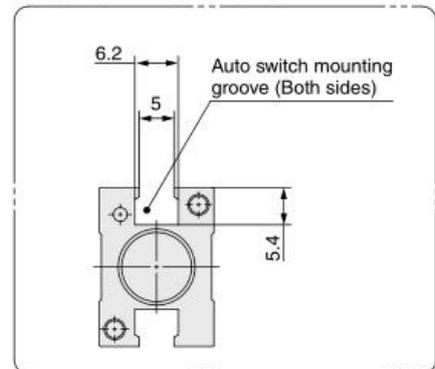


* For single action, the port on one side is a breathing hole.

Finger Position/Narrow Type



Auto Switch Mounting Groove Dimensions

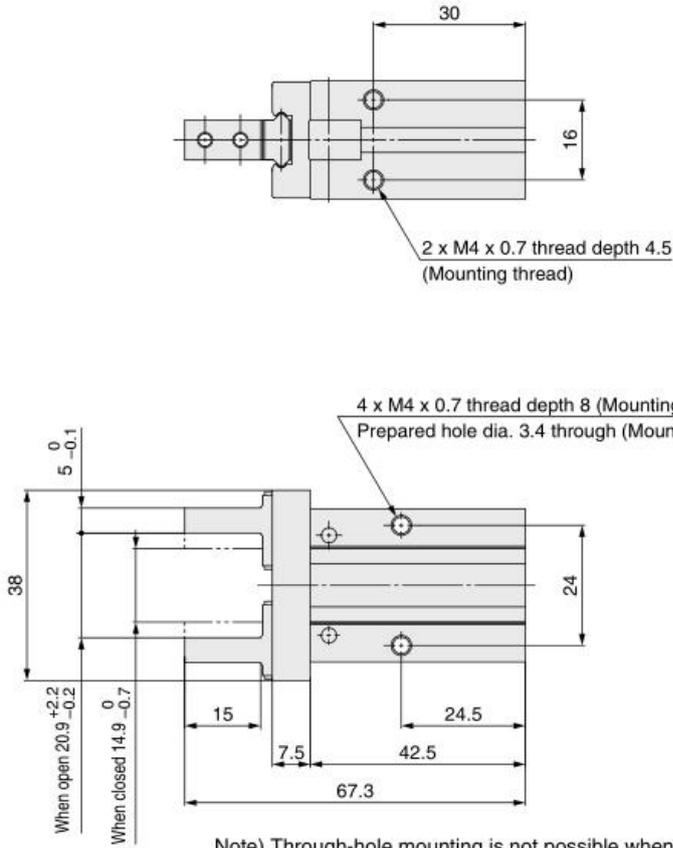


Note) When using auto switches, through-hole mounting is not possible.

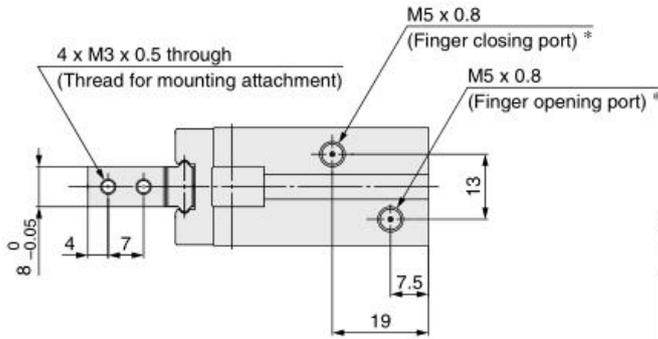
Dimensions

**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.

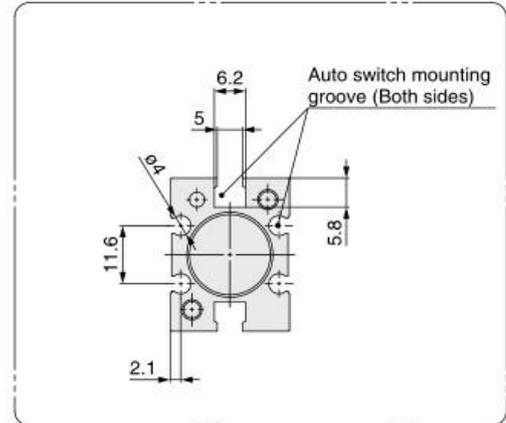


Note) Through-hole mounting is not possible when using the auto switch at the square groove.



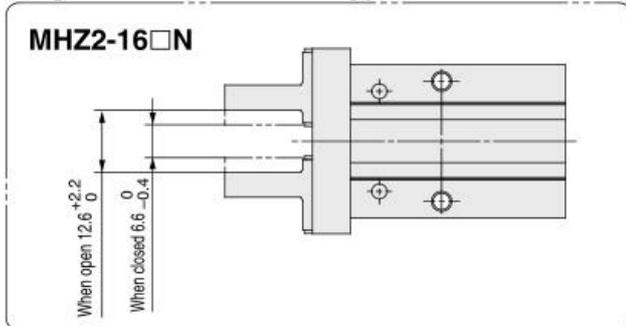
* For single action, the port on one side is a breathing hole.

Auto Switch Mounting Groove Dimensions



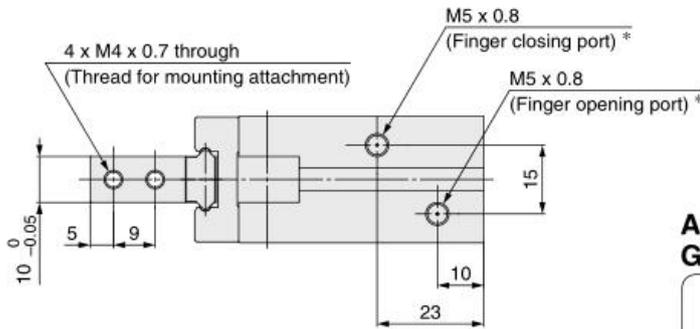
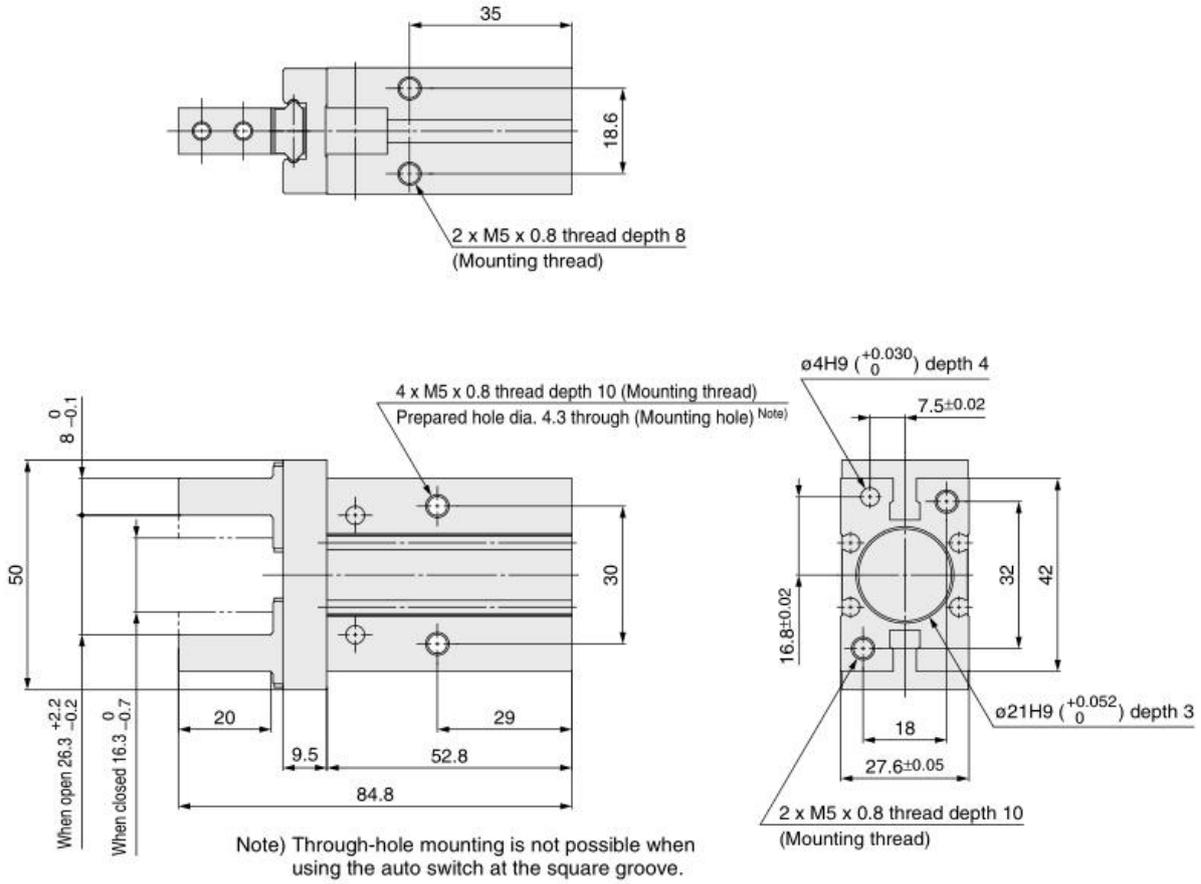
Note) Through-hole mounting is not possible when using the auto switch at the square groove.

Finger Position/Narrow Type



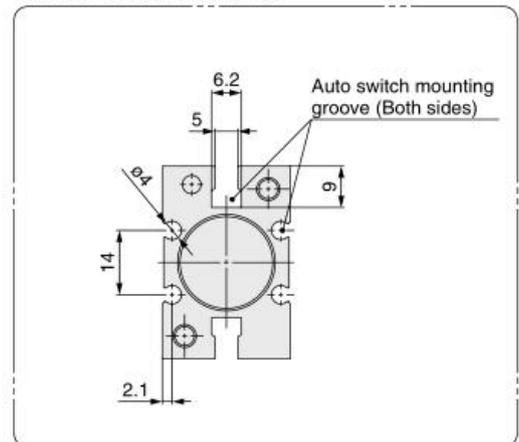
MHZ2-20□ Double acting/Single acting Basic type

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



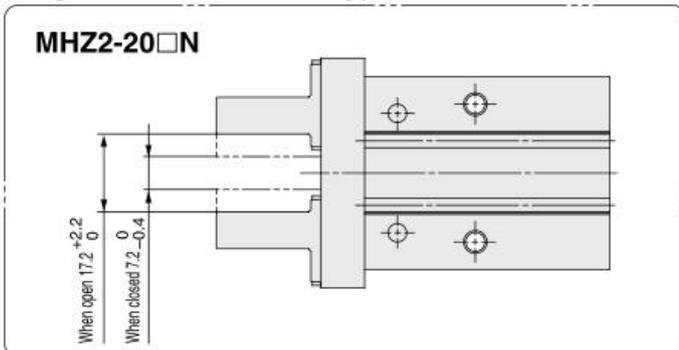
* For single action, the port on one side is a breathing hole.

Auto Switch Mounting Groove Dimensions



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

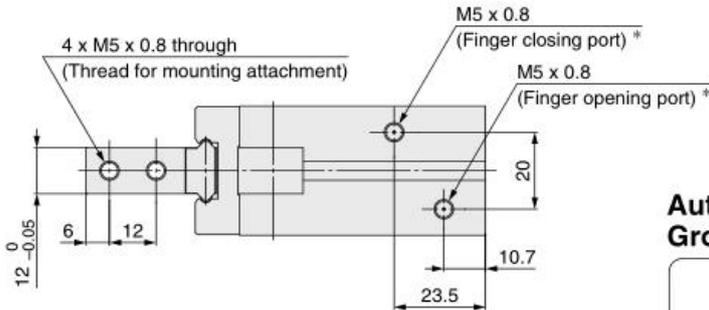
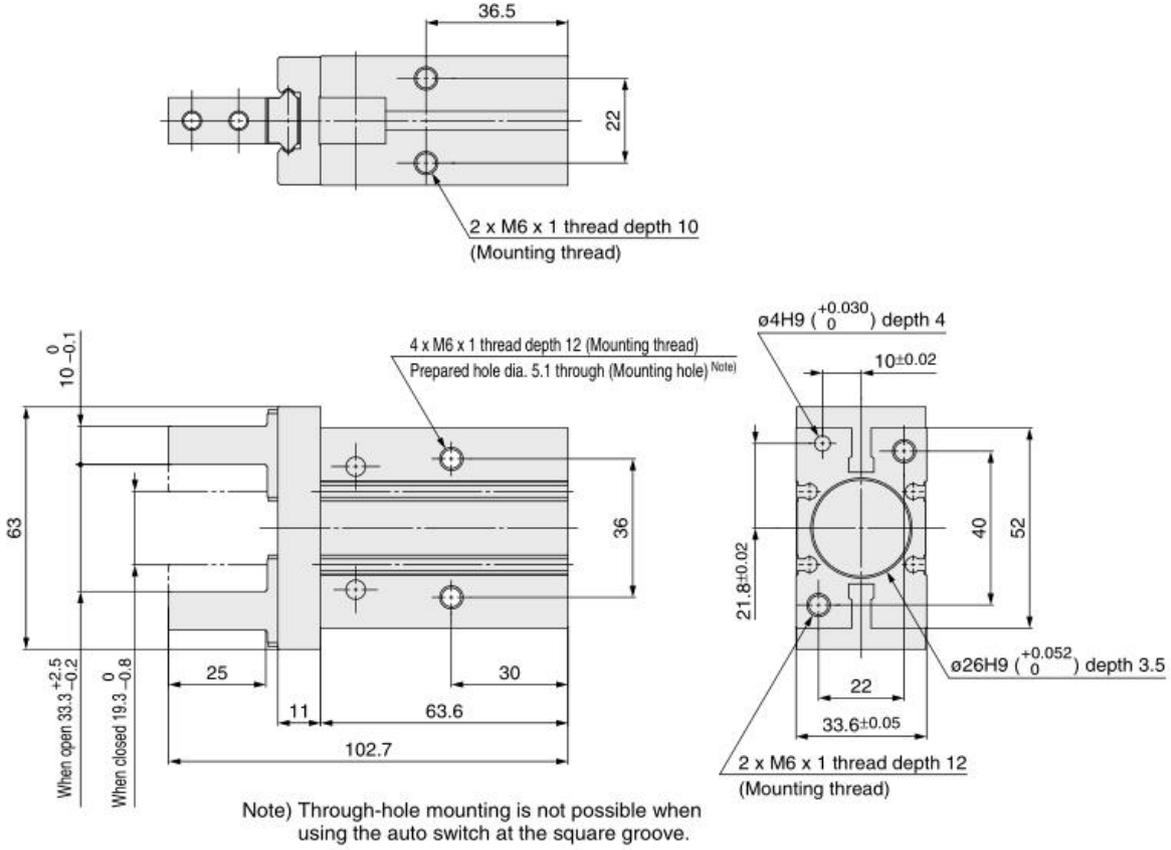
Finger Position/Narrow Type



Dimensions

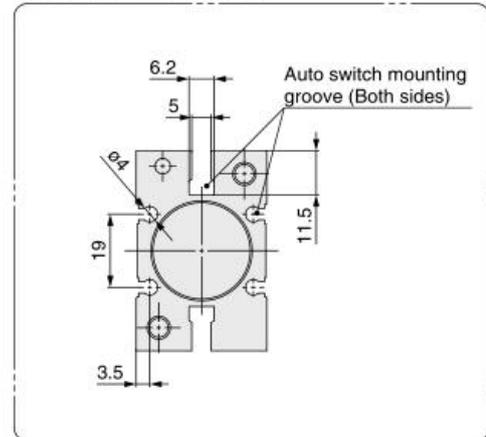
MHZ2-25□ Double acting/Single acting
Basic type

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



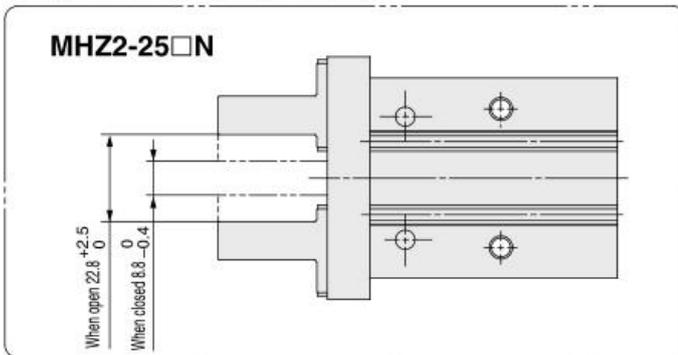
* For single action, the port on one side is a breathing hole.

Auto Switch Mounting Groove Dimensions

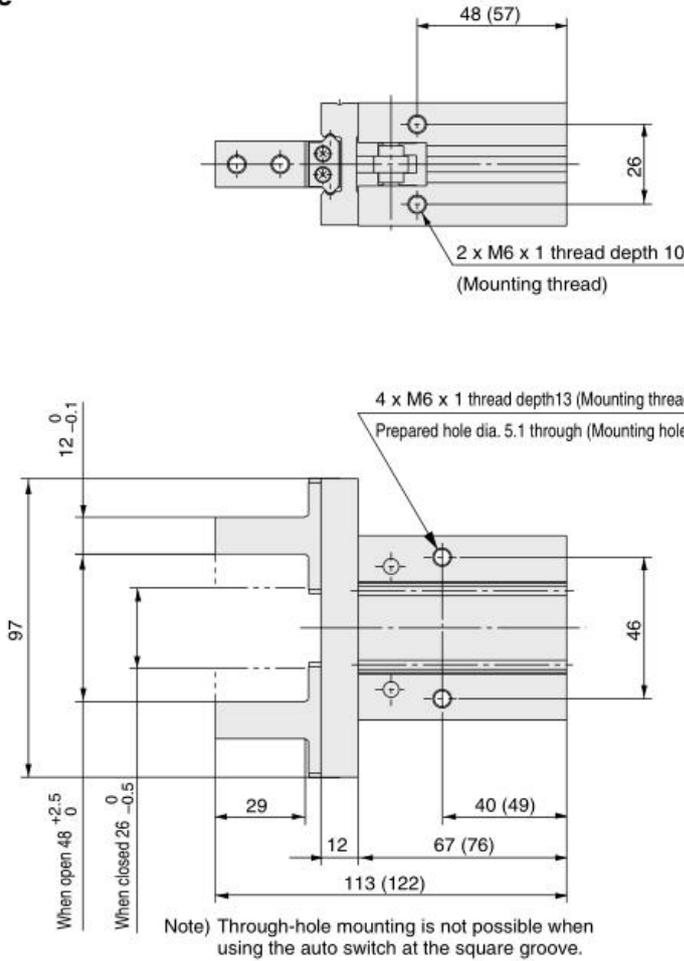


Note) Through-hole mounting is not possible when using the auto switch at the square groove.

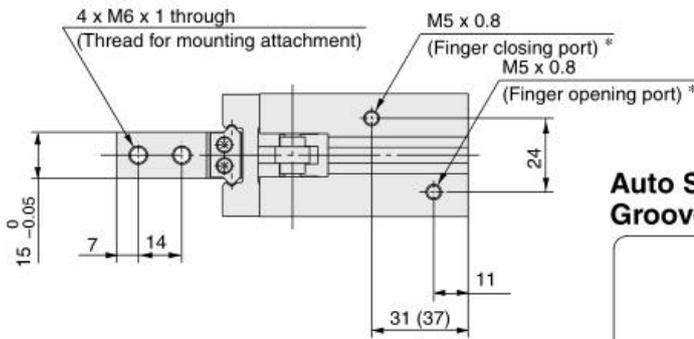
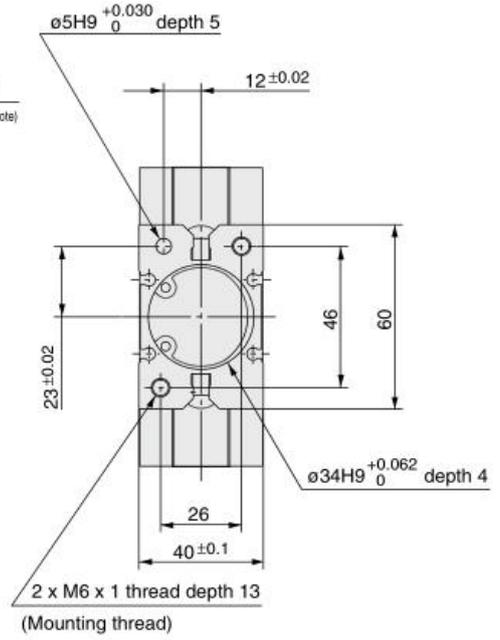
Finger Position/Narrow Type



MHZ2-32□ Double acting/Single acting
Basic type

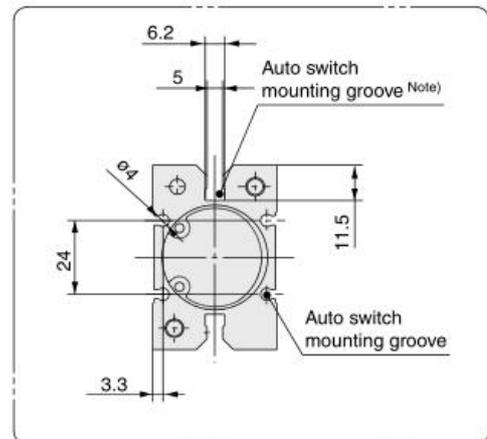


The values inside () are dimensions for the single acting type.



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

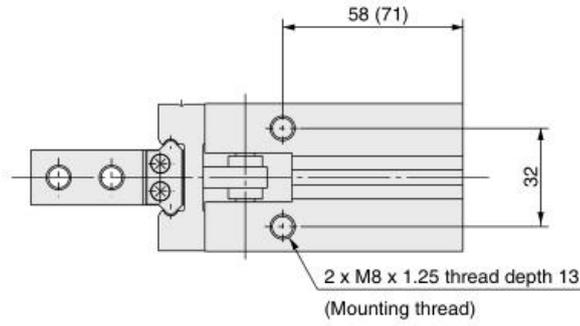
Auto Switch Mounting Groove Dimensions



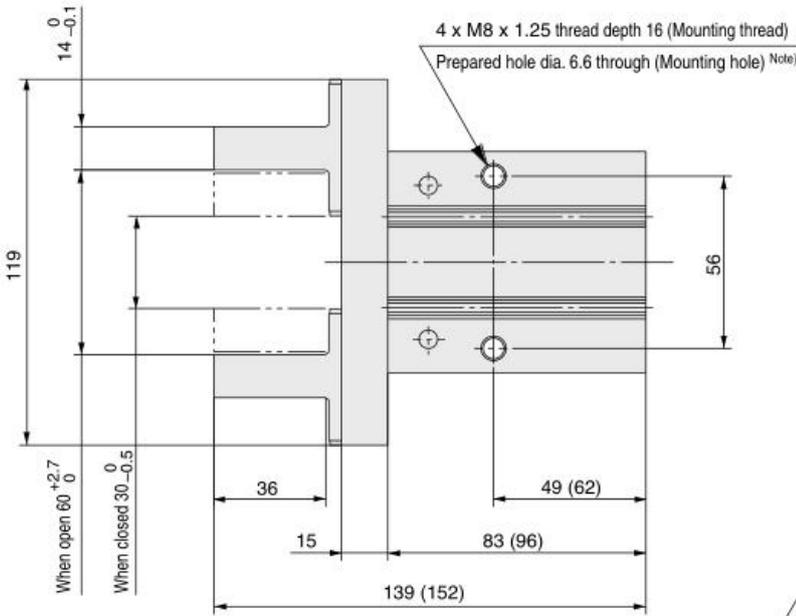
Note) Through-hole mounting is not possible when using the auto switch at the square groove.

Dimensions

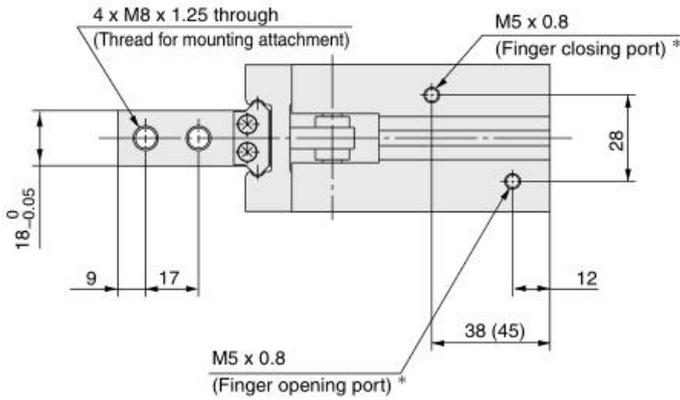
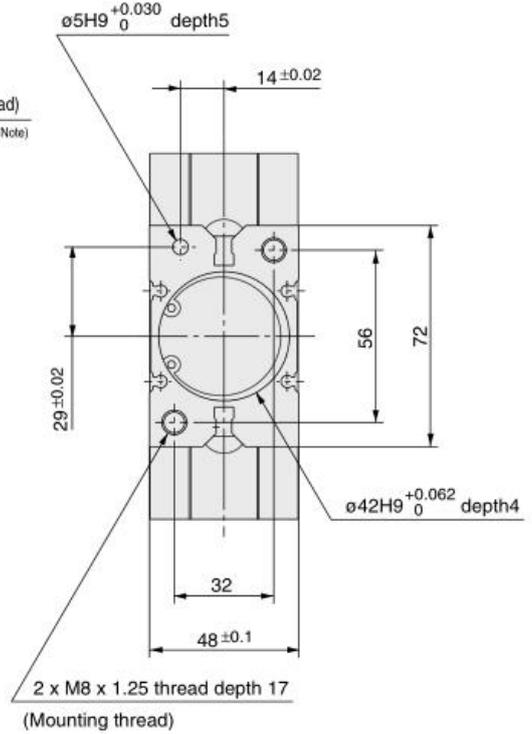
**MHZ2-40 □ Double acting/Single acting
Basic type**



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

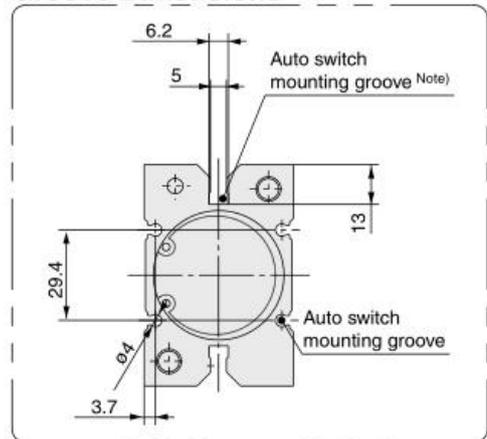


Note) Through-hole mounting is not possible when using the auto switch at the square groove.



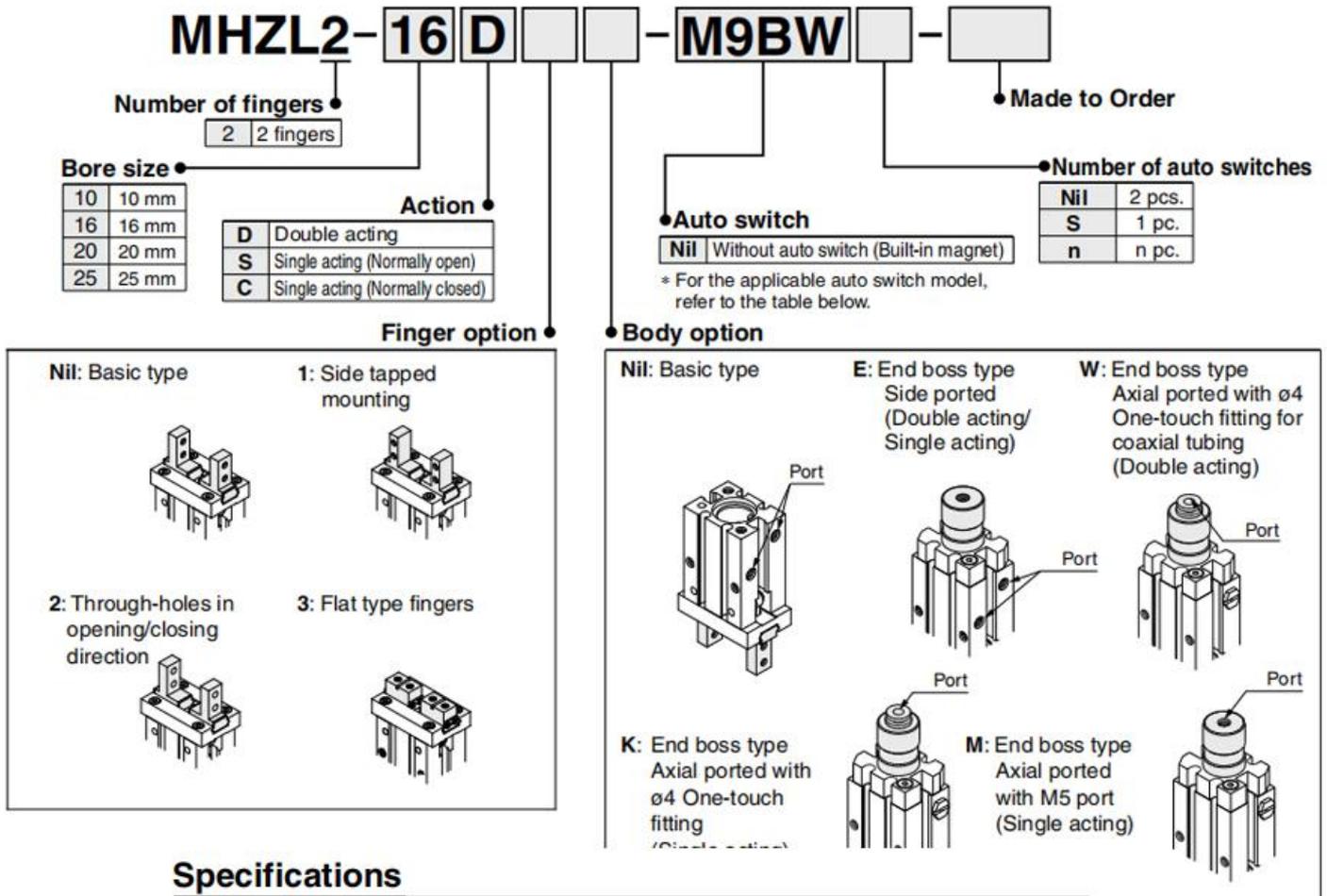
* For single action, the port on one side is a breathing hole.

Auto Switch Mounting Groove Dimensions



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

How to Order



Specifications

Fluid		Air	
Operating pressure	Double acting		$\phi 10$: 0.2 to 0.7 MPa
	Single acting	Normally open	$\phi 16$ to $\phi 25$: 0.1 to 0.7 MPa
		Normally closed	$\phi 10$: 0.35 to 0.7 MPa
			$\phi 16$ to $\phi 25$: 0.25 to 0.7 MPa
Ambient and fluid temperature		-10 to 60°C	
Repeatability		± 0.01 mm	
Max. operating frequency		120 c.p.m.	
Lubrication		Not required	
Action		Double acting/Single acting	
Auto switch (Option) ^{Note)}		Solid state auto switch (3-wire, 2-wire)	

Note) Refer to pages 797 to 850 for further information on auto switches.

Model

Action	Model	Bore size (mm)	Gripping force ^{Note 1)}		Opening/Closing stroke (Both sides) (mm)	^{Note 2)} Weight (g)	
			Gripping force per finger Effective value (N)				
			External	Internal			
Double acting	MHZL2-10D	10	11	17	8	60	
	MHZL2-16D	16	34	45	12	135	
	MHZL2-20D	20	42	66	18	270	
	MHZL2-25D	25	65	104	22	470	
Single acting	Normally open	MHZL2-10S	10	7.1	8	70	
		MHZL2-16S	16	27	12	145	
		MHZL2-20S	20	33	18	290	
		MHZL2-25S	25	50	22	515	
	Normally closed	MHZL2-10C	10	—	13	8	70
		MHZL2-16C	16	—	38	12	145
		MHZL2-20C	20	—	57	18	290
		MHZL2-25C	25	—	85	22	515

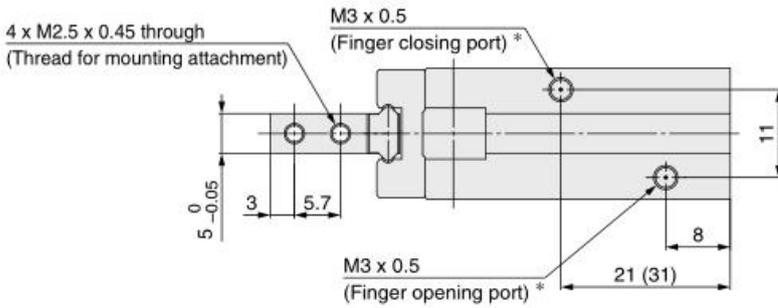
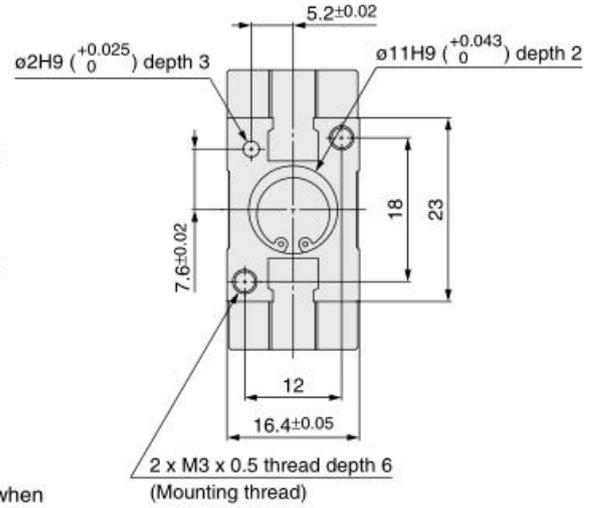
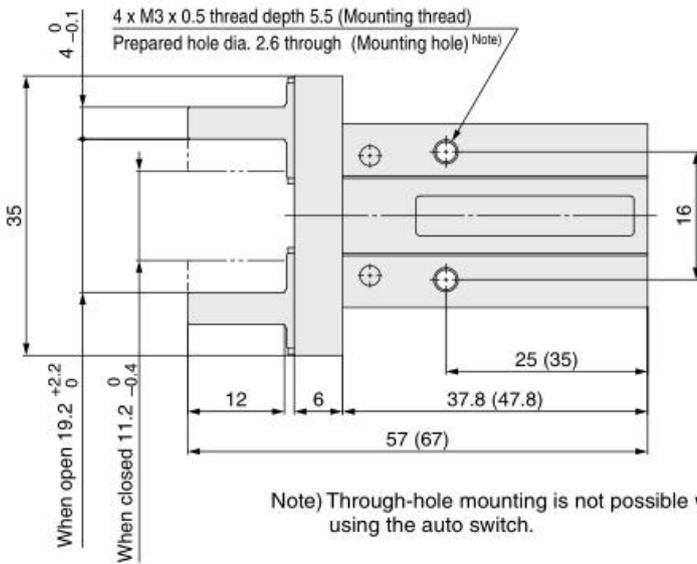
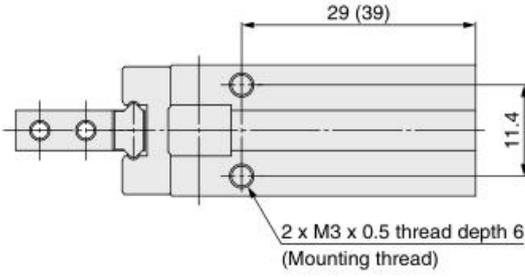
Note 1) Values based on pressure of 0.5 MPa, gripping point L = 20 mm, at center of stroke.

Note 2) Values excluding weight of auto switch.

Dimensions

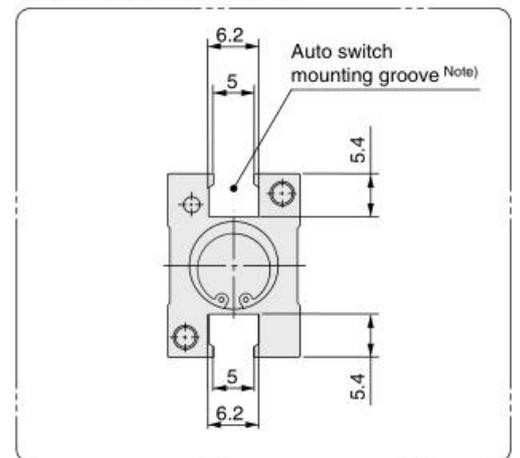
**MHZZL2-10□ Double acting/Single acting
Basic type**

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



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

Auto Switch Mounting Groove Dimensions

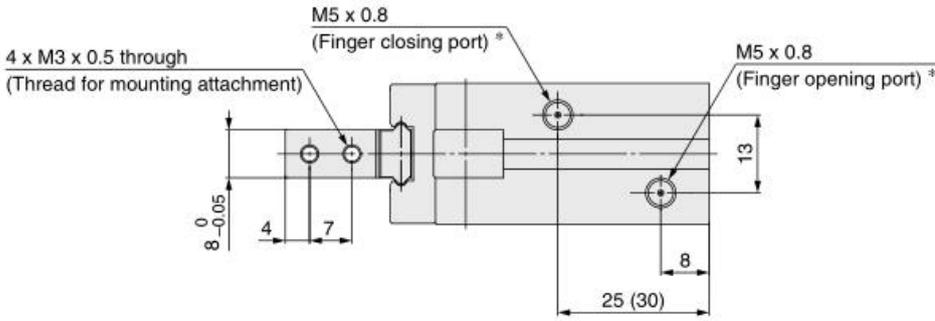
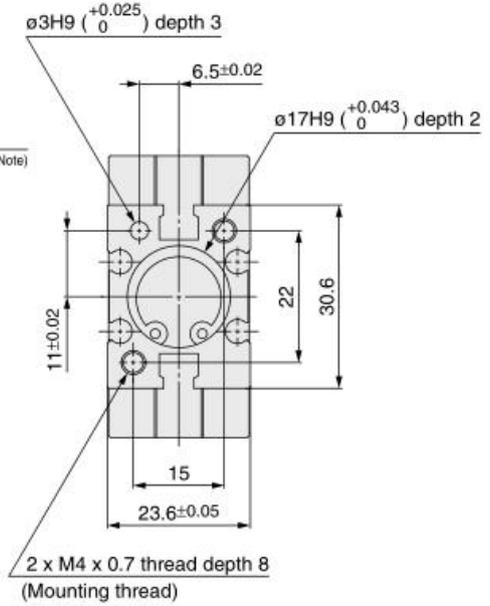
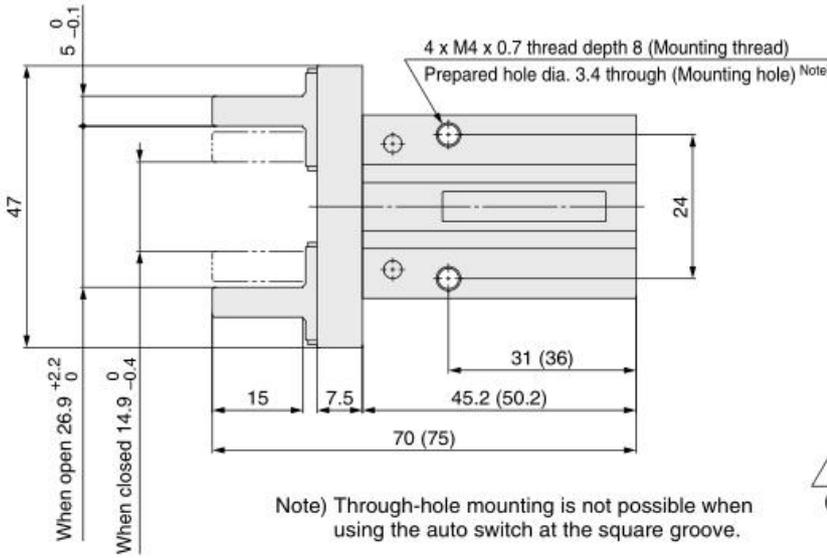
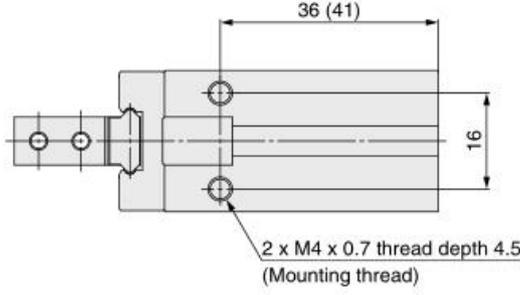


Note) Through-hole mounting is not possible when using the auto switch at the square groove.

Dimensions

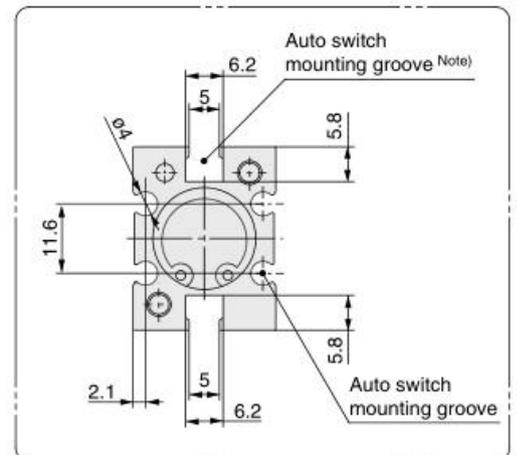
**MHZL2-16□ Double acting/Single acting
Basic type**

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



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

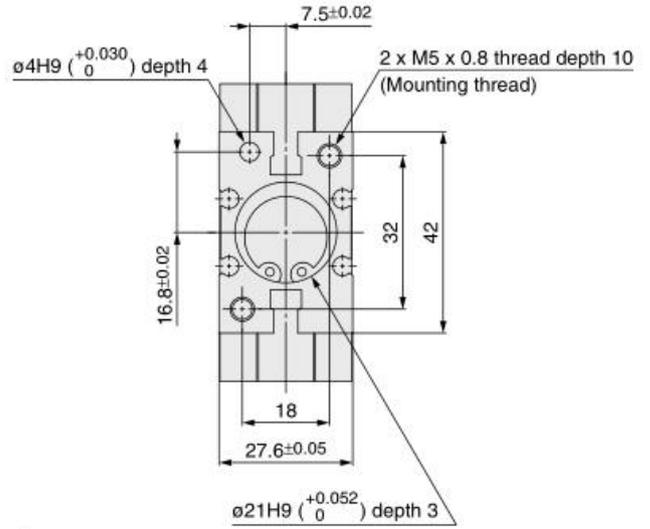
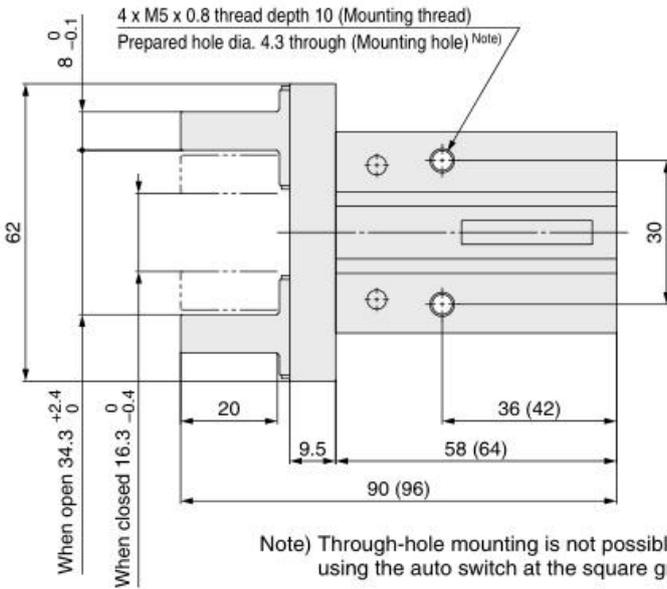
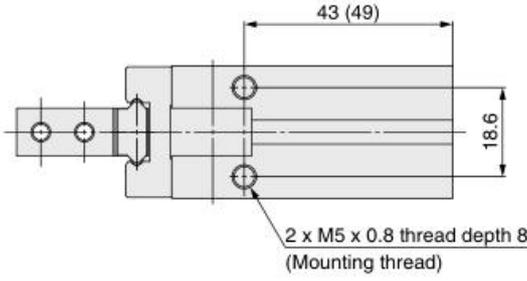
Auto Switch Mounting Groove Dimensions



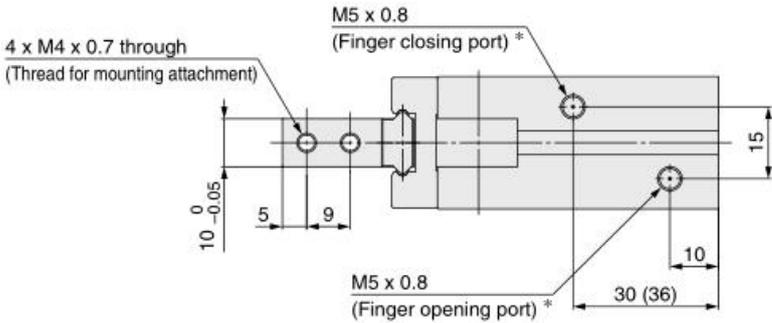
Note) Through-hole mounting is not possible when using the auto switch at the square groove.

MHZL2-20□ Double acting/Single acting Basic type

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

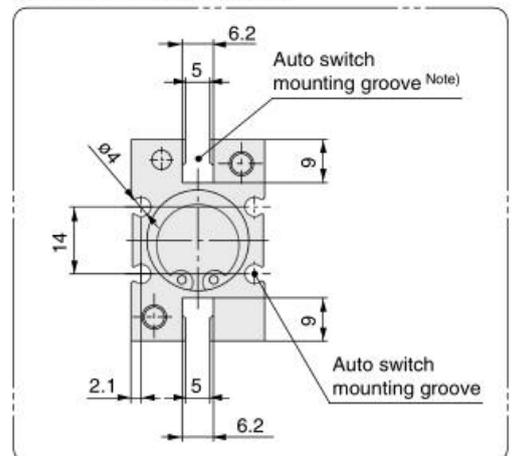


Note) Through-hole mounting is not possible when using the auto switch at the square groove.



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

Auto Switch Mounting Groove Dimensions

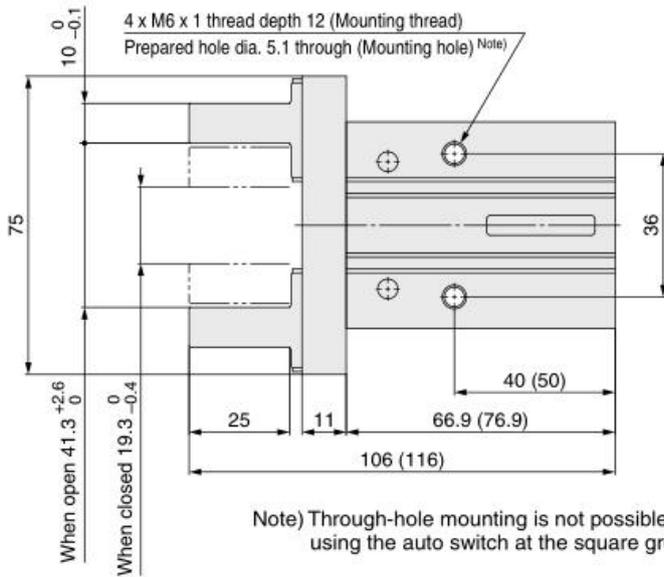
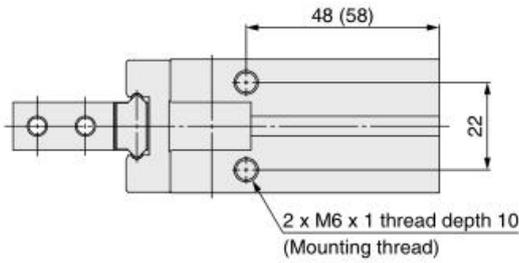


Note) Through-hole mounting is not possible when using the auto switch at the square groove.

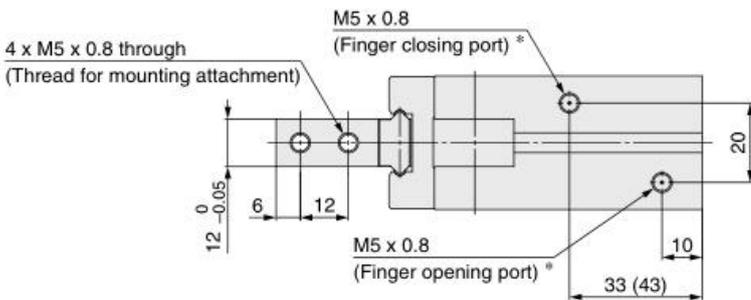
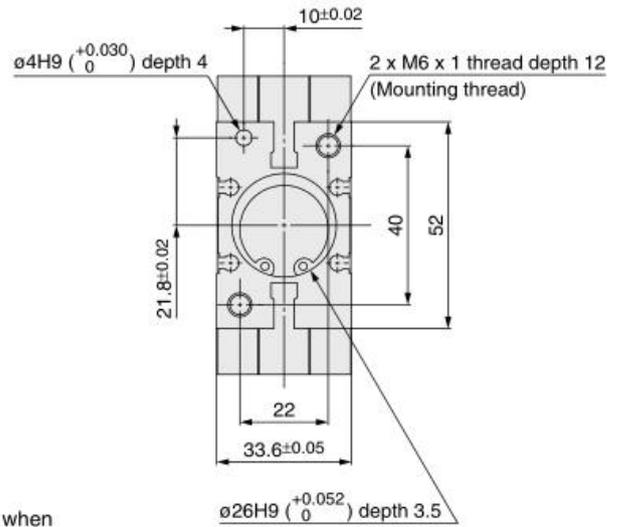
Dimensions

MHZL2-25 □ Double acting/Single acting
Basic type

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

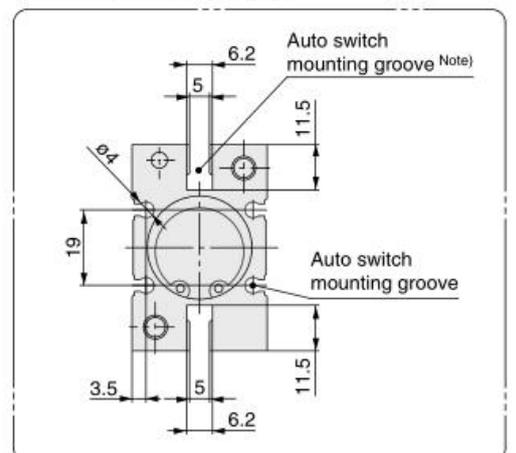


Note) Through-hole mounting is not possible when using the auto switch at the square groove.



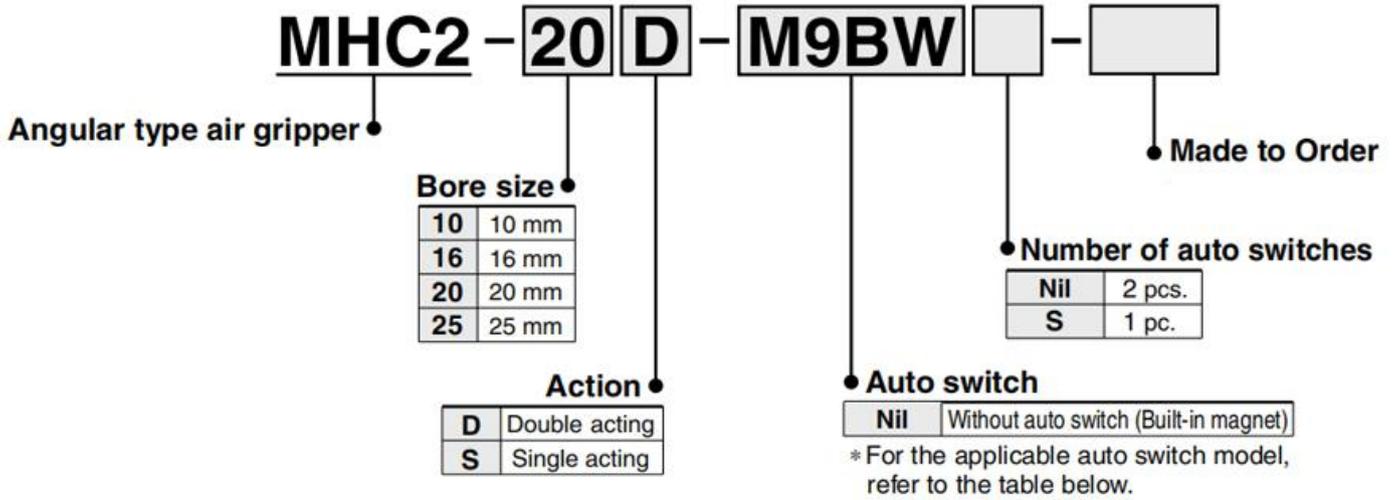
* For single action, the port on one side is a breathing hole.

Auto Switch Mounting Groove Dimensions



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

How to Order



Specifications

Fluid	Air	
Operating pressure	Double acting	0.1 to 0.6 MPa
	Single acting	0.25 to 0.6 MPa
Ambient and fluid temperature	-10 to 60°C	
Repeatability	±0.01 mm	
Max. operating frequency	180 c.p.m	
Lubrication	Not required	
Action	Double acting, Single acting	
Auto switch (Option) Note)	Solid state auto switch (3-wire, 2-wire)	

Model

Action	Model	Bore size (mm)	Gripping moment (N·m) (Effective value) ⁽¹⁾	Opening/closing angle (Both sides)	Weight ⁽²⁾ (g)
Double acting	MHC2-10D	10	0.10	30° to -10°	39
	MHC2-16D	16	0.39		91
	MHC2-20D	20	0.70		180
	MHC2-25D	25	1.36		311
Single acting	MHC2-10S	10	0.070	30° to -10°	39
	MHC2-16S	16	0.31		92
	MHC2-20S	20	0.54		183
	MHC2-25S	25	1.08		316

Note 1) At the pressure of 0.5 MPa.

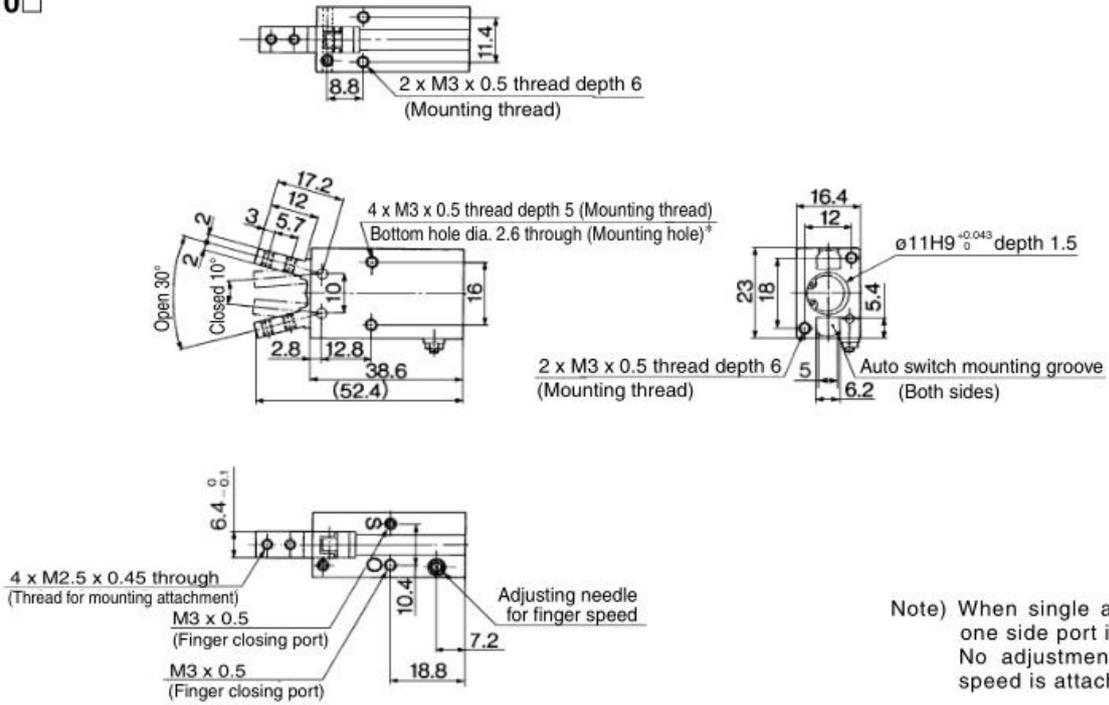
Refer to "Effective Gripping Force" data on page 677 for gripping force of each gripping point.

Note 2) Except auto switch.



Double Acting: Size 10, 16

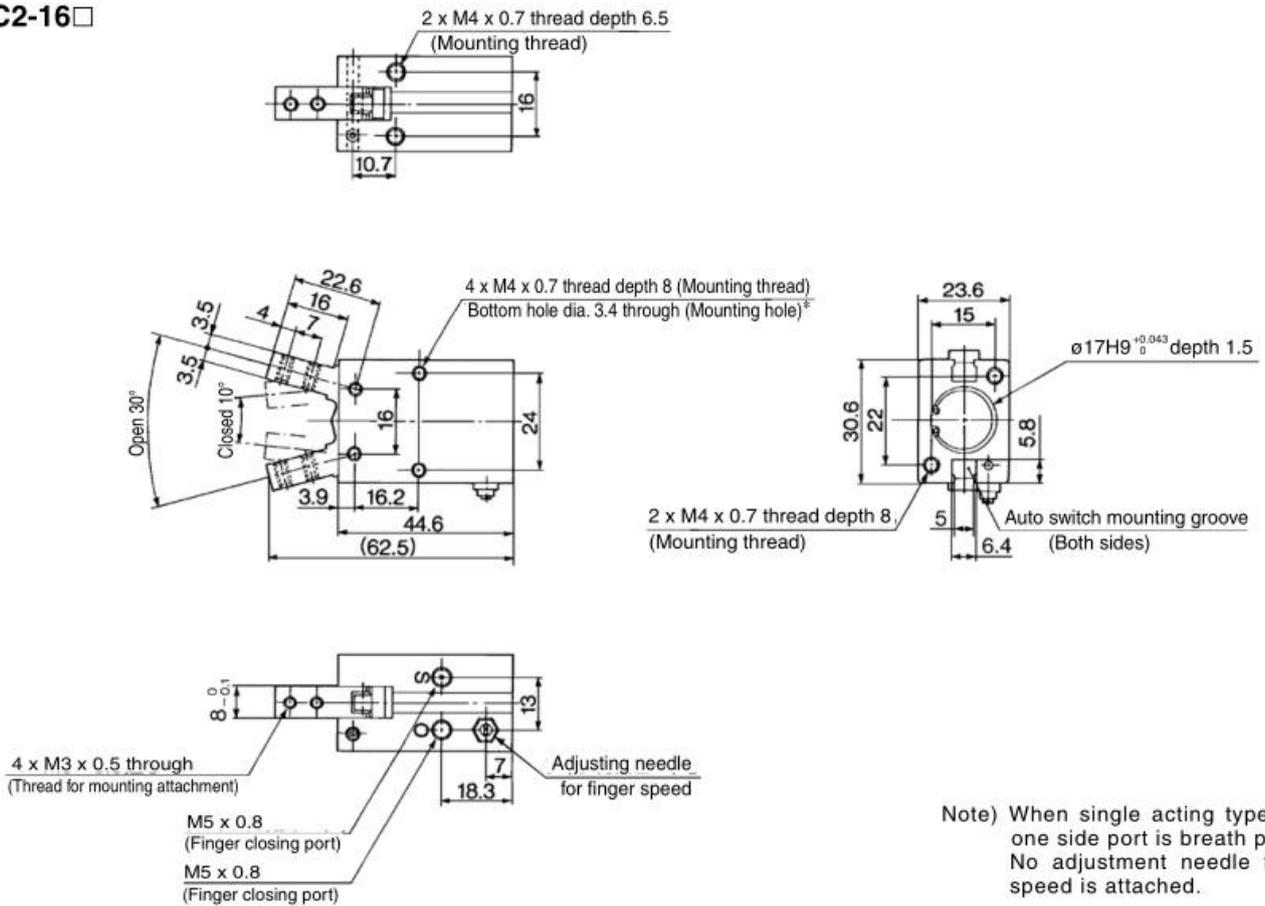
MHC2-10 □



Note) When single acting type is used, one side port is breath port. No adjustment needle for finger speed is attached.

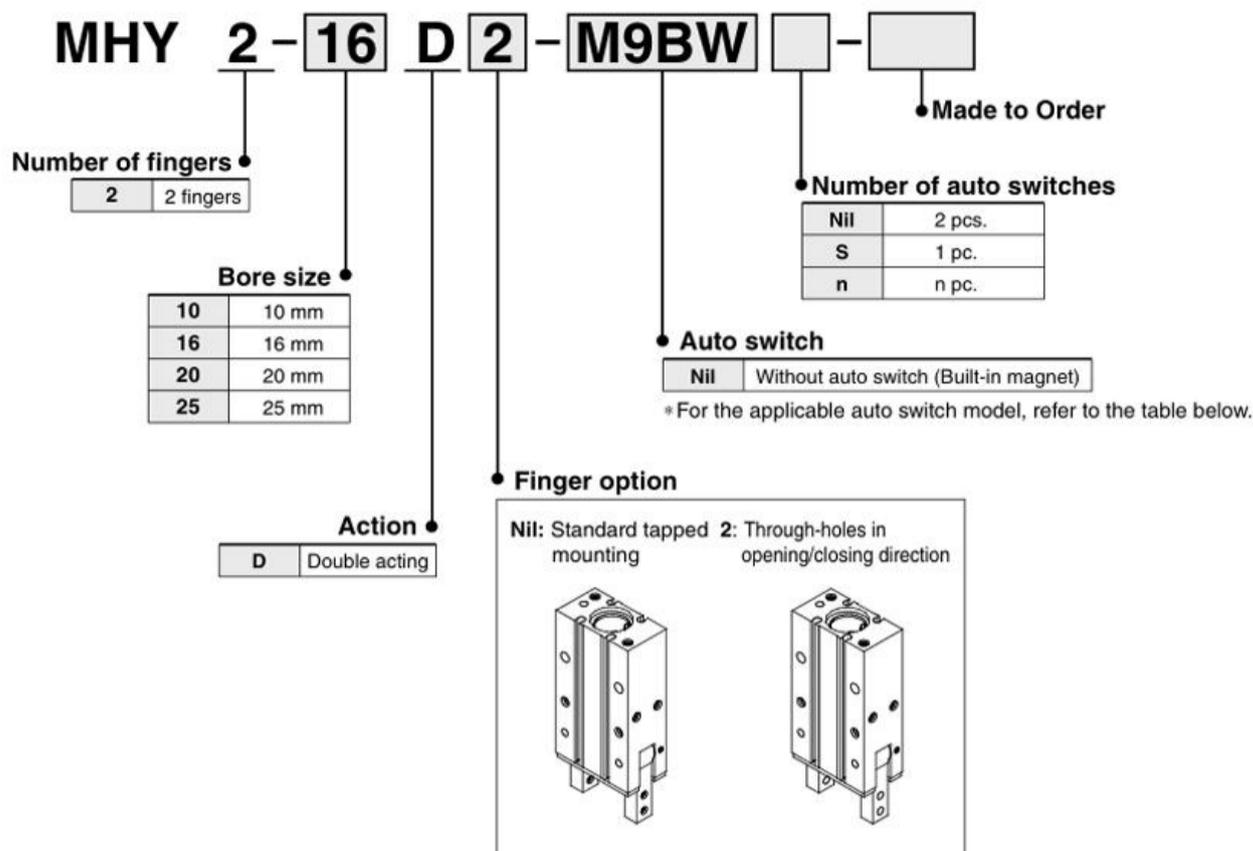
* When auto switches are used, through hole mounting is not available.

MHC2-16 □



Note) When single acting type is used, one side port is breath port. No adjustment needle for finger speed is attached.

* When auto switches are used, through hole mounting is not available.



Applicable 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		
					DC	AC	Electrical entry direction		0.5 (Nil)	1 (M)	3 (L)	5 (Z)		IC circuit	Relay, PLC	
							Perpendicular	In-line								
Solid state auto switch	—	Grommet	Yes	3-wire(NPN)	5 V, 12 V	—	M9NV	M9N	●	●	●	○	○	IC circuit	—	
				3-wire(PNP)			M9PV	M9P	●	●	●	○				
				2-wire	M9BV	M9B	●	●	●	○						
				3-wire(NPN)	5 V, 12 V	—	M9NVV	M9NW	●	●	●	○	IC circuit			
				3-wire(PNP)			M9PVV	M9PW	●	●	●	○				
				2-wire	M9BVV	M9BW	●	●	●	○						
	Water resistant (2-color indicator)	—	—	—	3-wire(NPN)	5 V, 12 V	—	M9NAV**	M9NA**	○	○	●	○	○	IC circuit	—
					3-wire(PNP)			M9PAV**	M9PA**	○	○	●	○			
					2-wire	M9BAV**	M9BA**	○	○	●	○					

Specifications

Fluid	Air
Operating pressure	0.1 to 0.6 MPa
Ambient and fluid temperature	-10 to 60°C
Repeatability	±0.2 mm
Max. operating frequency	60 c.p.m.
Lubrication	Not required
Action	Double acting
Auto switch (Option) ^{Note)}	Solid state auto switch (3-wire, 2-wire)

Note) Refer to pages 797 to 850 for further information on auto switches.

Model

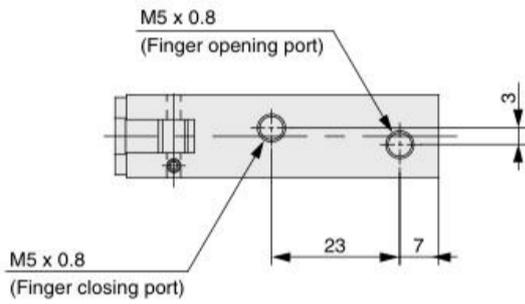
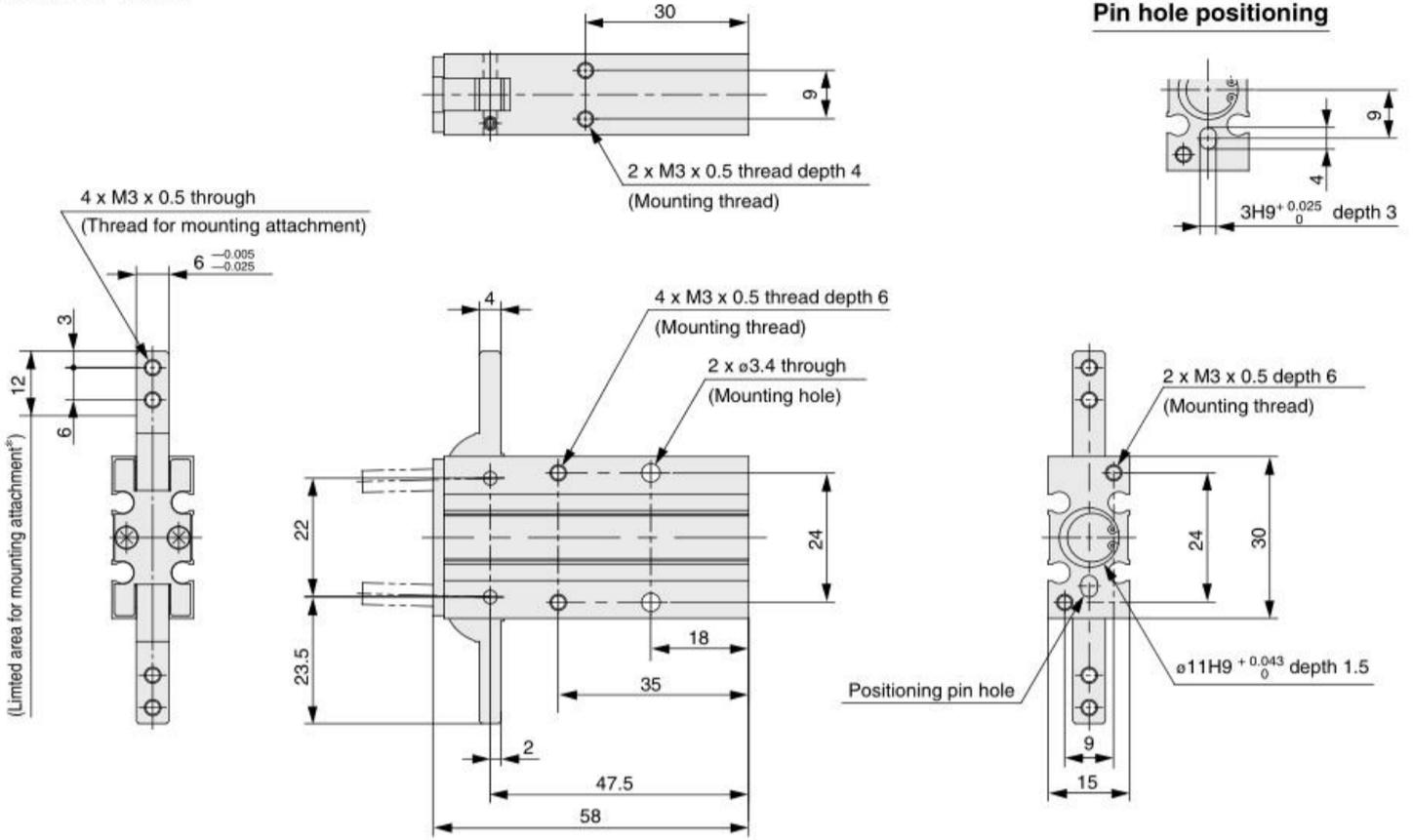
Model	Bore size (mm)	Effective gripping force (1) (N·m)	Opening/Closing angle (Both sides)		Weight (2) (g)
			Opening side	Closing side	
MHY2-10D	10	0.16	180°	-3°	70
MHY2-16D	16	0.54			150
MHY2-20D	20	1.10			320
MHY2-25D	25	2.28			560

Note 1) At the pressure of 0.5 MPa

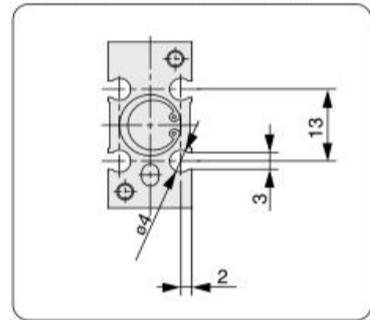
Note 2) Except auto switch

Dimensions

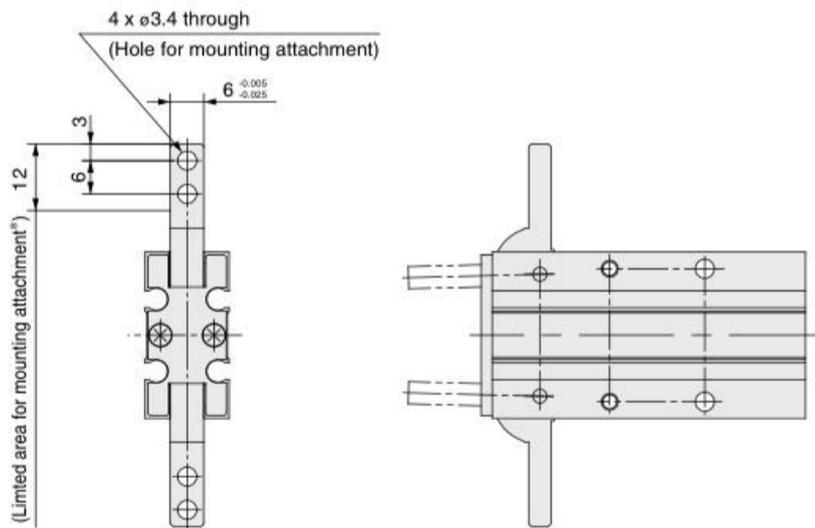
MHY2-10D



Auto Switch Mounting Groove Dimensions



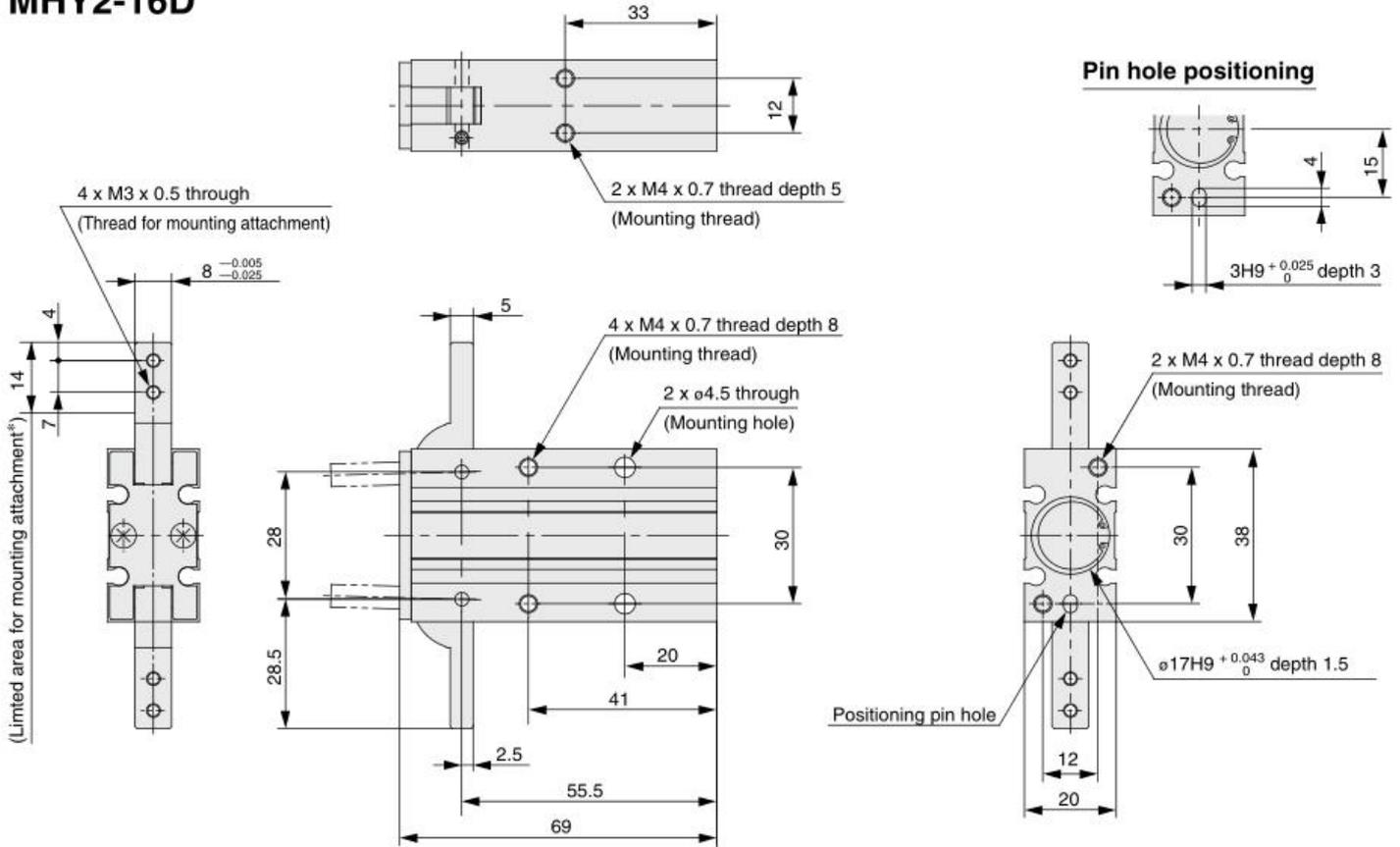
MHY2-10D2
Opening/Closing direction through-hole type



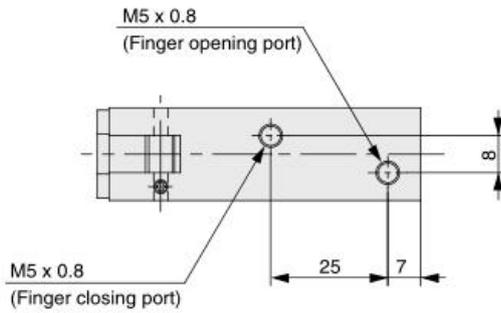
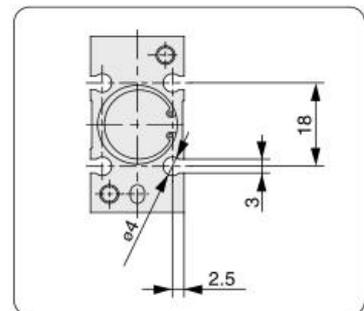
* Do not extend the attachment from limited area for mounting to avoid interference with the attachment or main body.

Dimensions

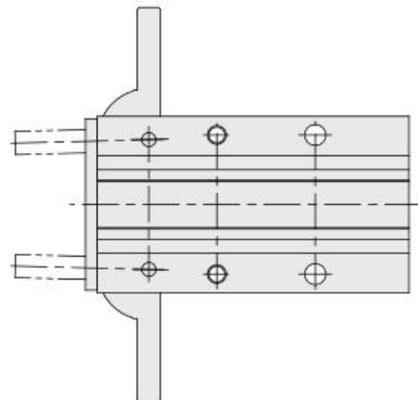
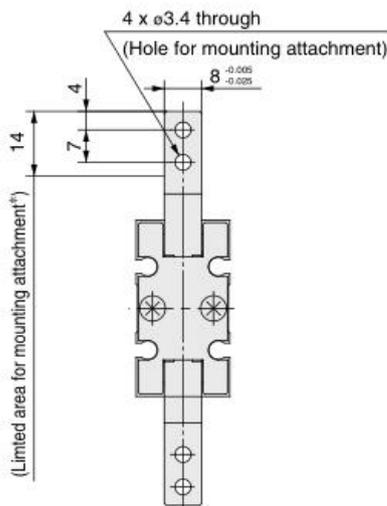
MHY2-16D



Auto Switch Mounting Groove Dimensions

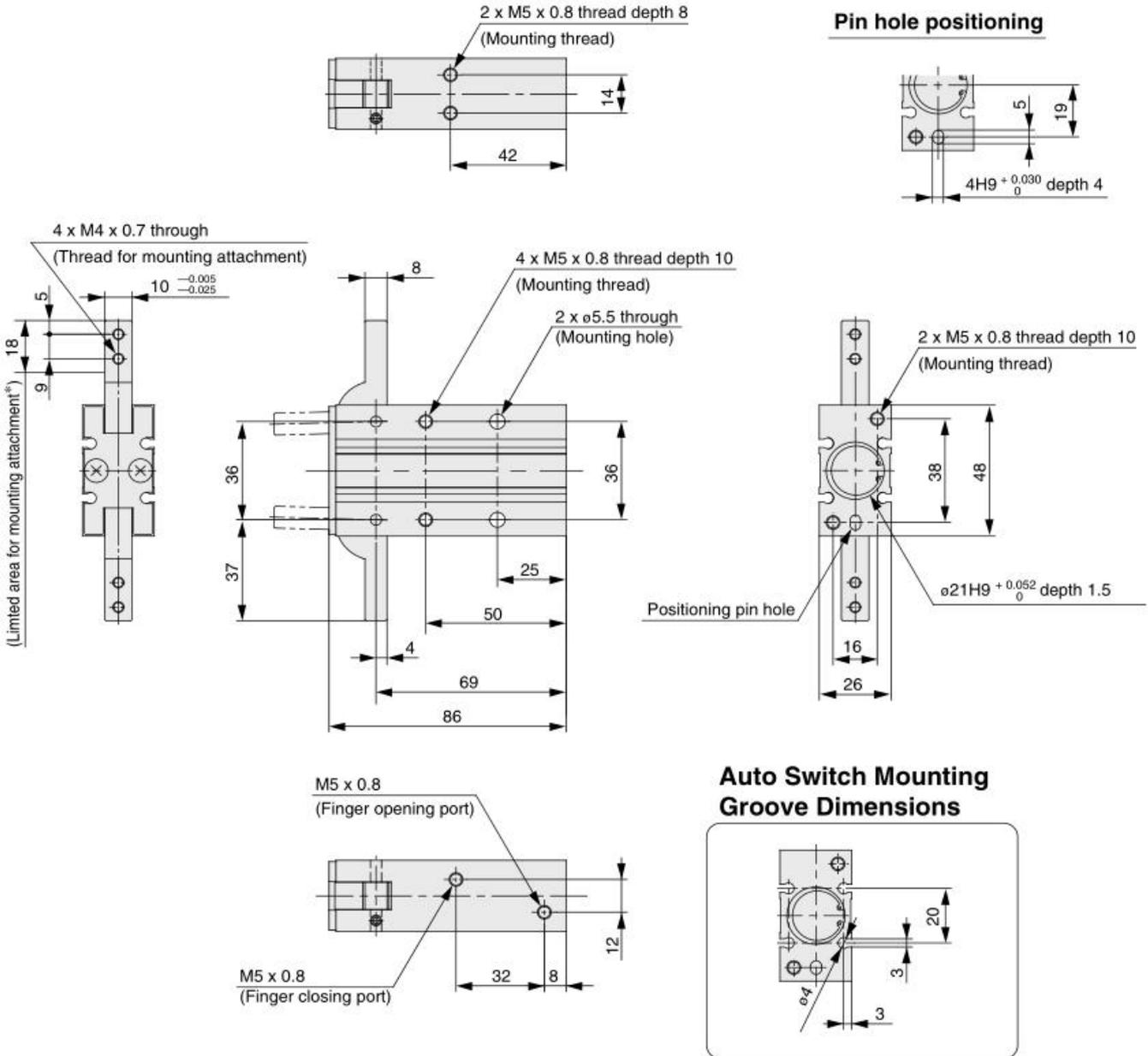


MHY2-16D2
Opening/Closing direction through-hole type

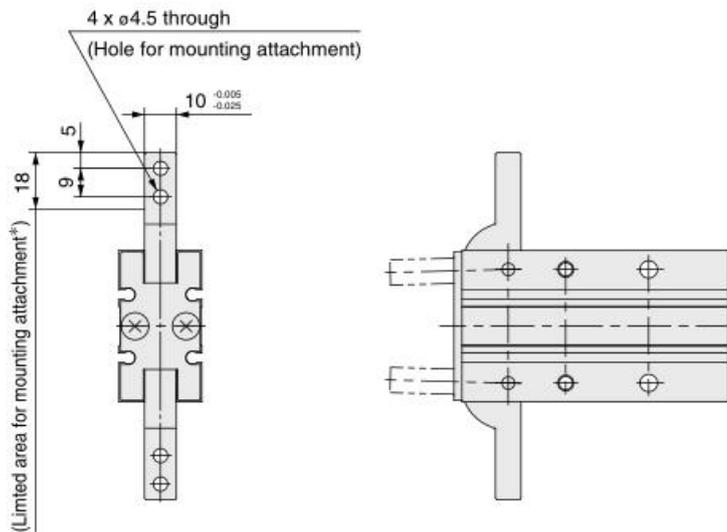


* Do not extend the attachment from limited area for mounting to avoid interference with the attachment or main body.

MHY2-20D

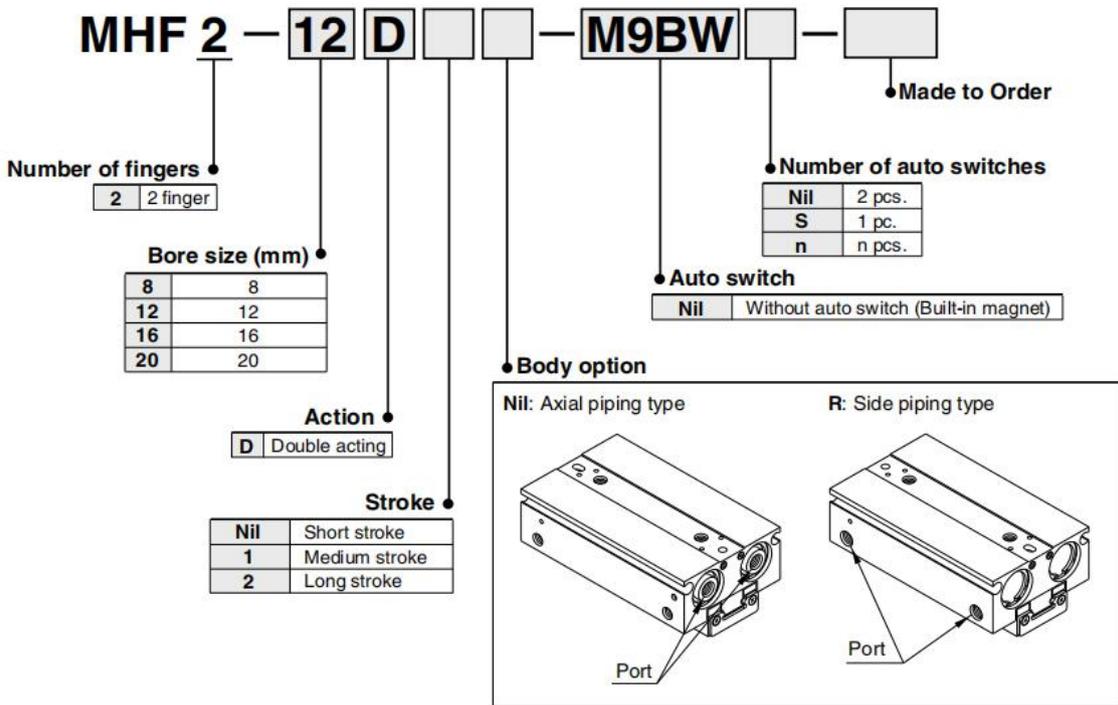


MHY2-20D2
Opening/Closing direction
through-hole type



* Do not extend the attachment from limited area for mounting to avoid interference with the attachment or main body.

How to Order



Specifications

Fluid		Air
Operating pressure		ø8: 0.15 to 0.7 MPa
		ø12 to 20: 0.1 to 0.7 MPa
Ambient and fluid temperature		-10 to 60°C (with no condensation)
Repeatability		±0.05 mm <small>Note 1)</small>
Maximum operating frequency	Short stroke	120 c.p.m.
	Medium stroke	120 c.p.m.
	Long stroke	60 c.p.m.
Lubrication		Not required
Action		Double acting
Auto switch (Option) <small>Note 2)</small>		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 797 to 850 for further information on auto switches.

Model

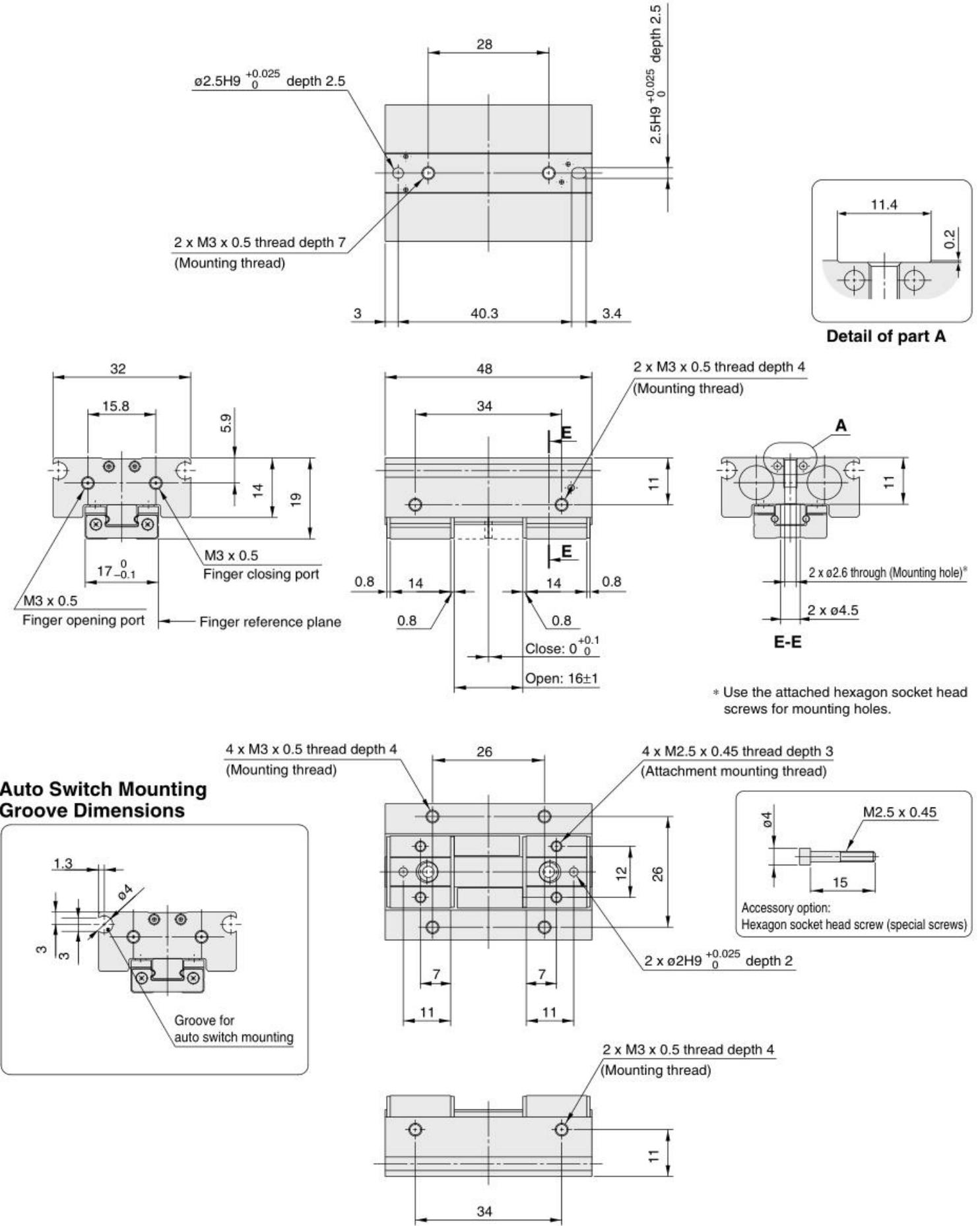
Action	Model	Cylinder bore (mm)	<small>Note 1)</small>		Opening /closing stroke (Both sides) mm	<small>Note 2)</small> Weight (g)	Unobstructed capacity (cm ³)										
			Gripping force	Effective gripping force per finger N			Finger open side	Finger close side									
Double acting	MHF2-8D	8	19	8	65	0.7	0.6										
	MHF2-8D1							16	85	1.1	1.0						
	MHF2-8D2											12	48	12	155	1.9	1.6
	MHF2-12D	24	190	3.3	3.0												
	MHF2-12D1					48	275	6.1	5.8								
	MHF2-12D2	16	90	16	350					4.9	4.1						
	MHF2-16D					32	445	8.2	7.4								
	MHF2-16D1																
	MHF2-16D2	20	141	20	645	8.7	7.3										
	MHF2-20D							40	850	15.1	13.7						
	MHF2-20D1											80	1,225	28.0	26.6		
	MHF2-20D2																

Note 1) At the pressure of 0.5 MPa, when gripping point L is 20 mm.

Note 2) Excluding the auto switch weight.

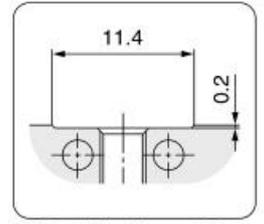
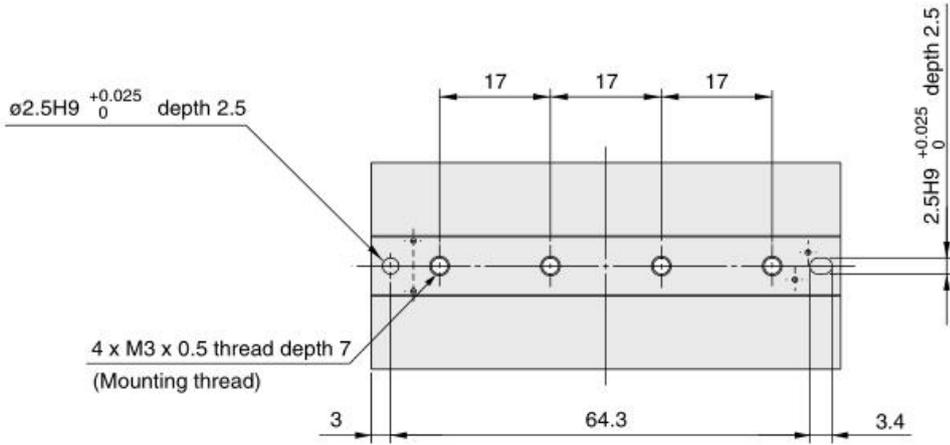
Dimensions

MHF2-8D1

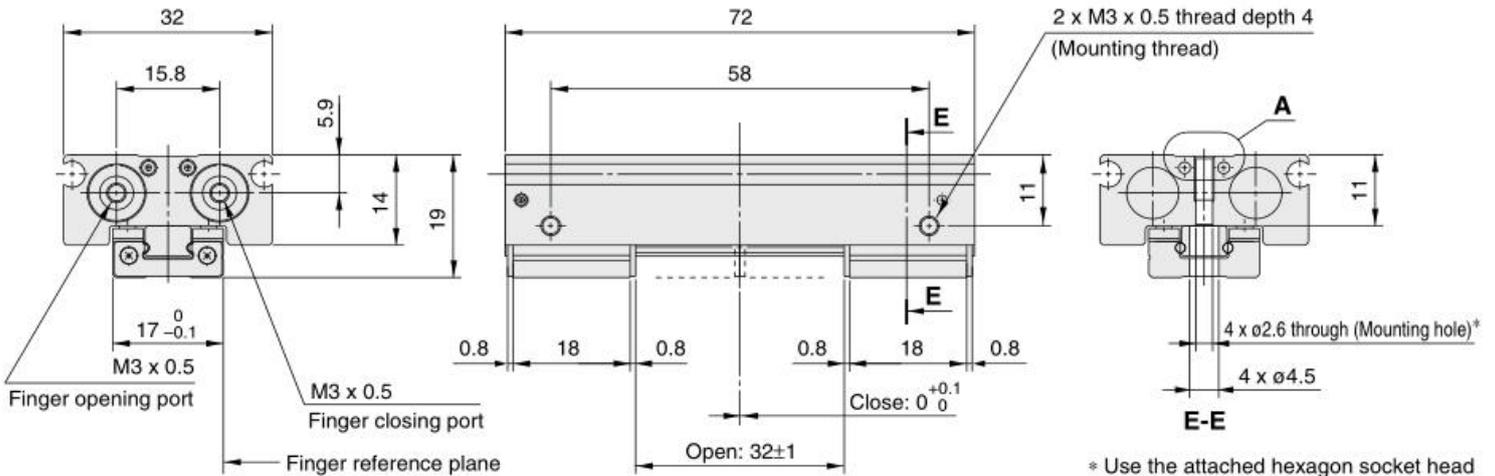


Dimensions

MHF2-8D2

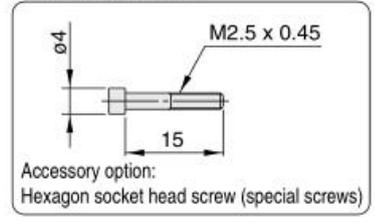
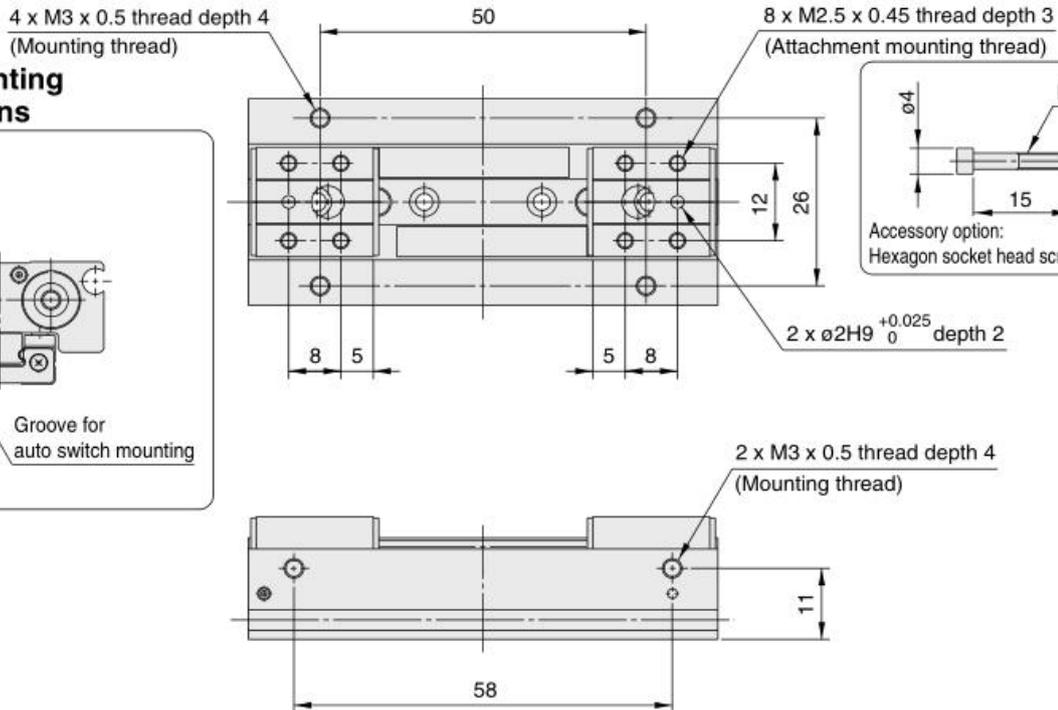
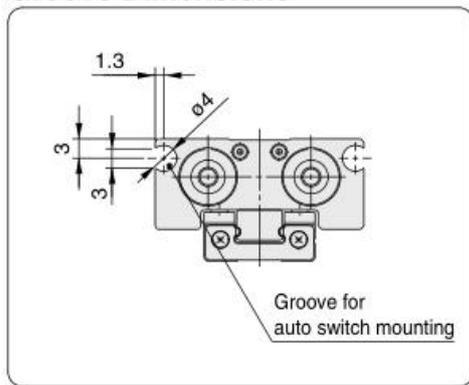


Detail of part A



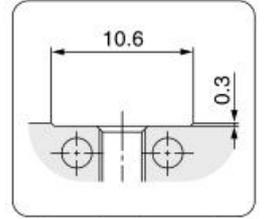
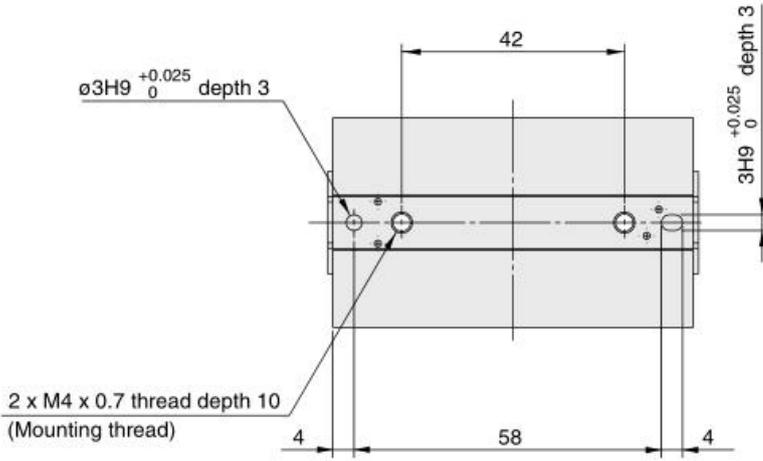
* Use the attached hexagon socket head screws for mounting holes.

Auto Switch Mounting Groove Dimensions

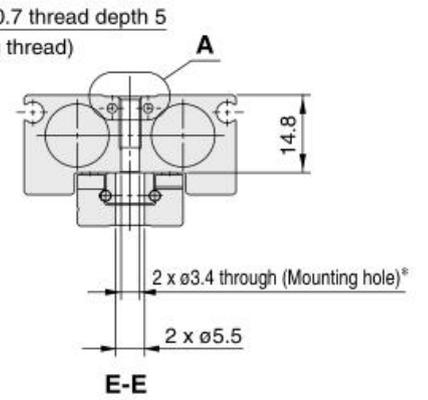
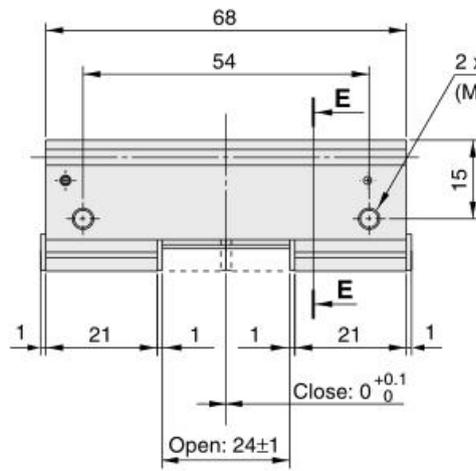
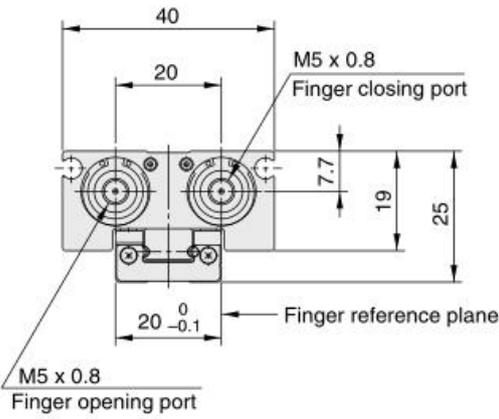


Dimensions

MHF2-12D1

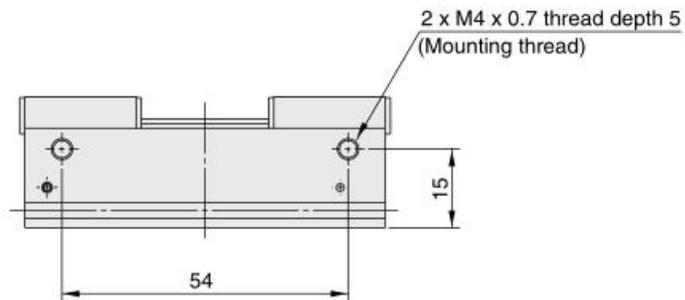
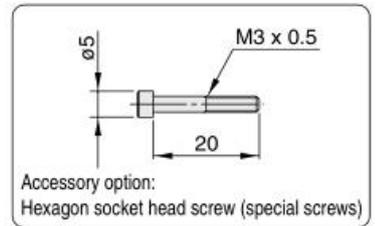
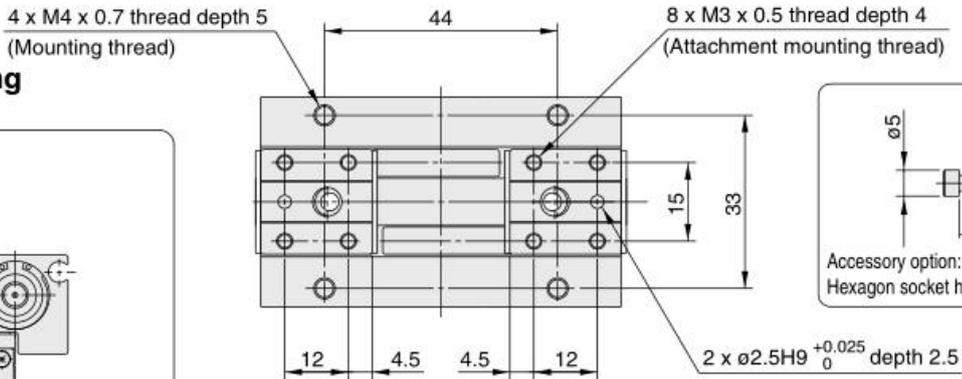
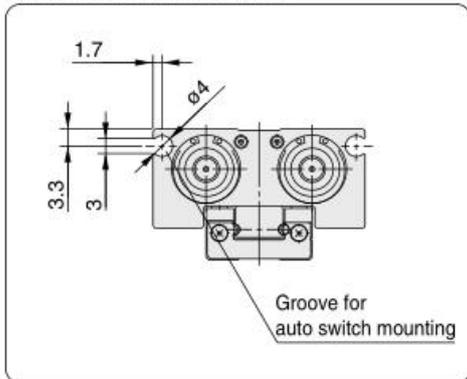


Detail of part A



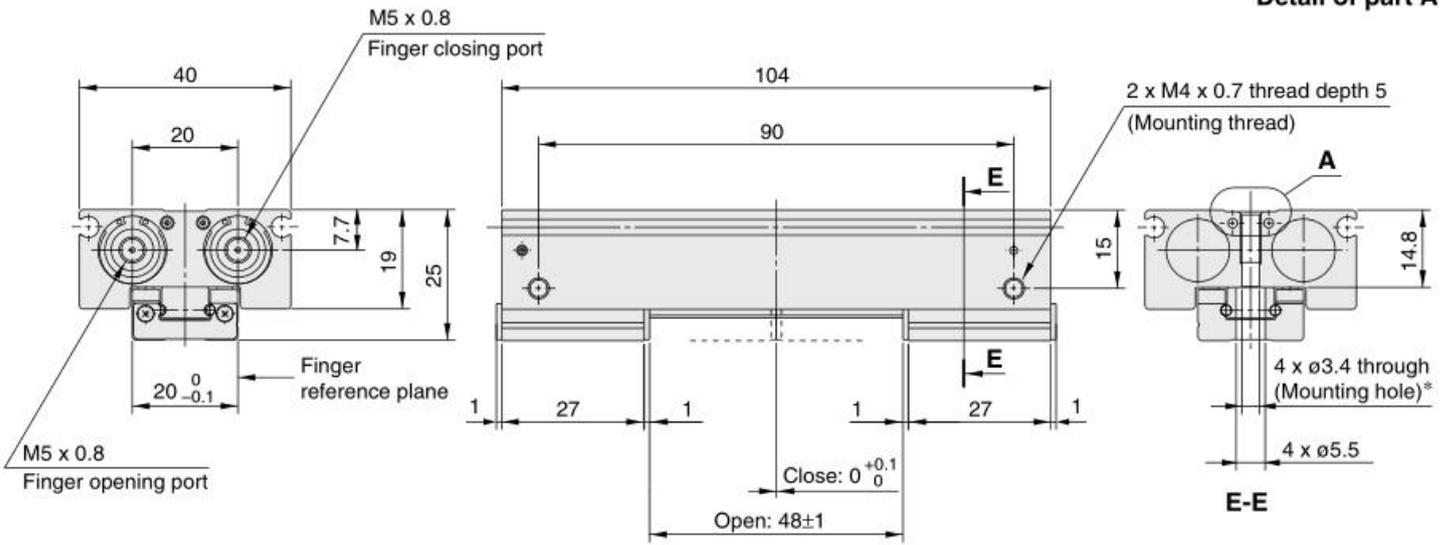
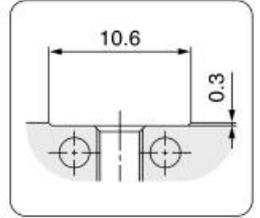
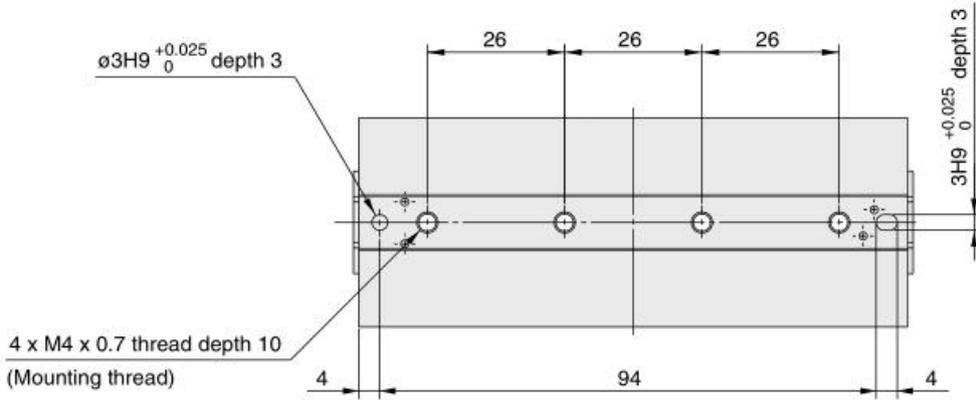
* Use the attached hexagon socket head screws for mounting holes.

Auto Switch Mounting Groove Dimensions

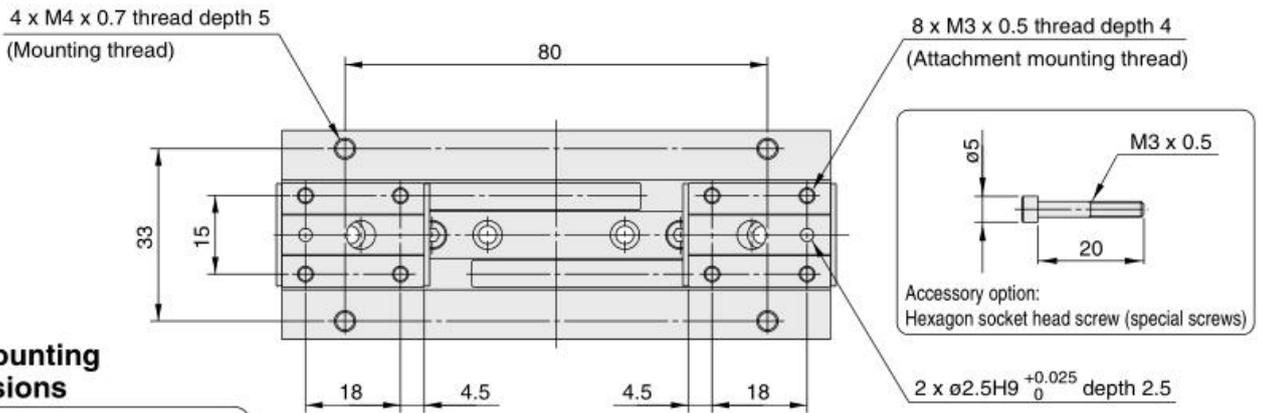


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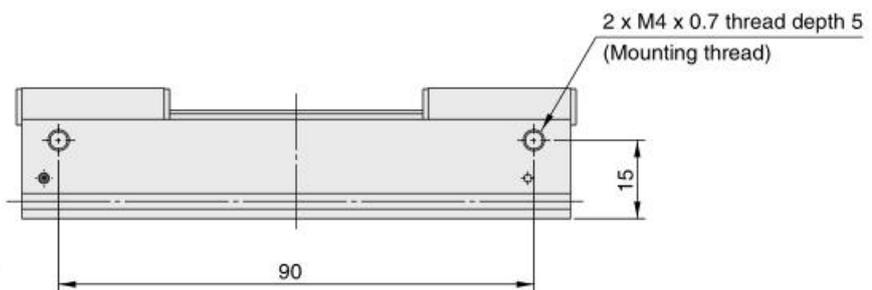
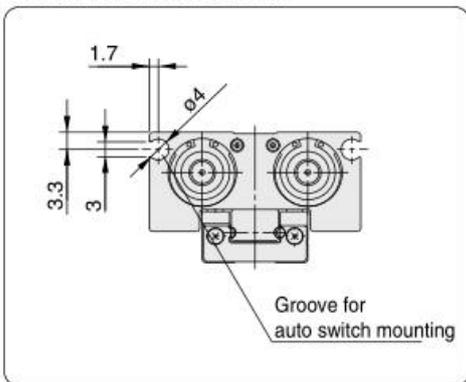
MHF2-12D2



* Use the attached hexagon socket head screws for mounting holes.

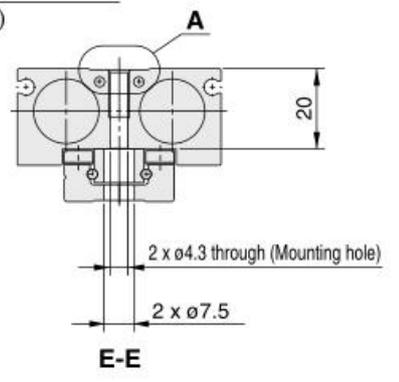
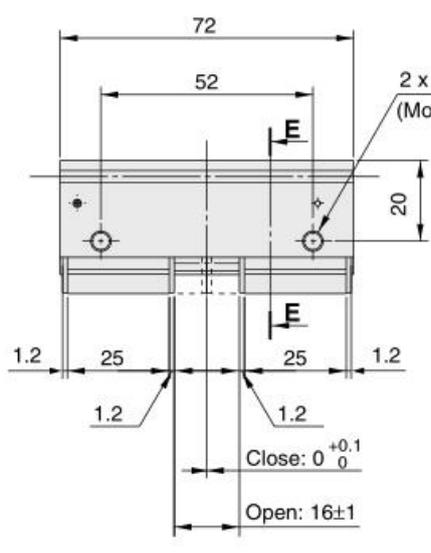
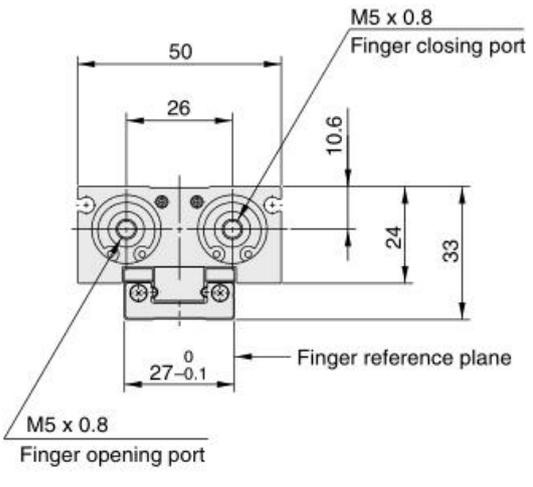
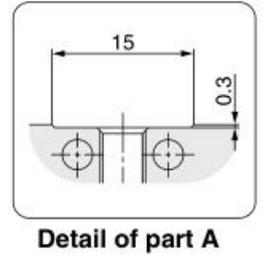
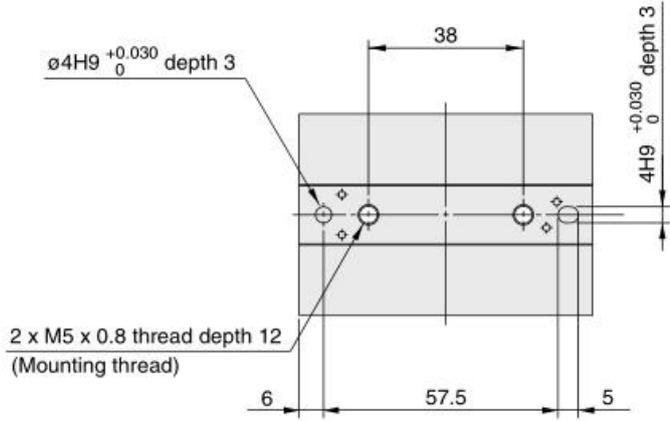


Auto Switch Mounting Groove Dimensions

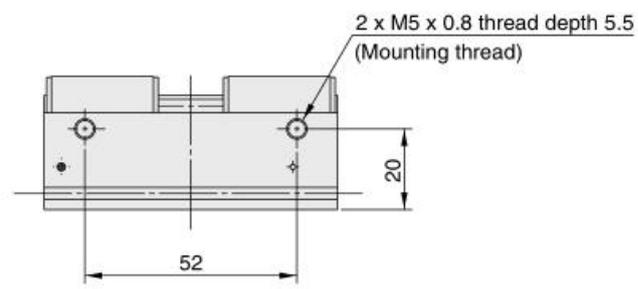
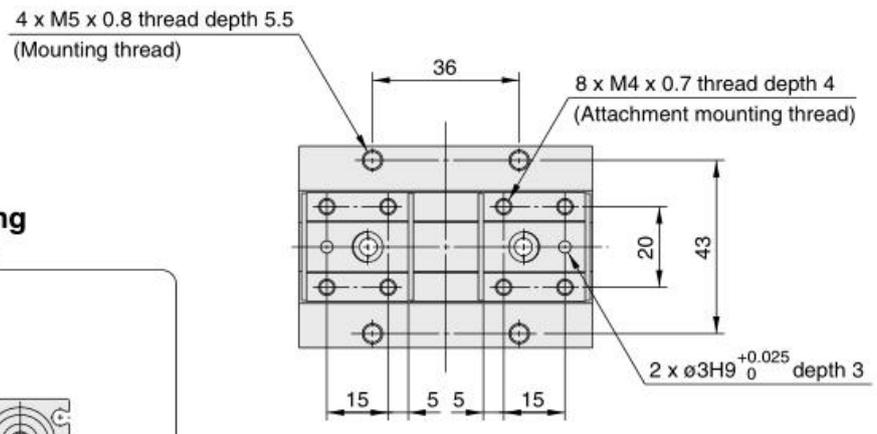
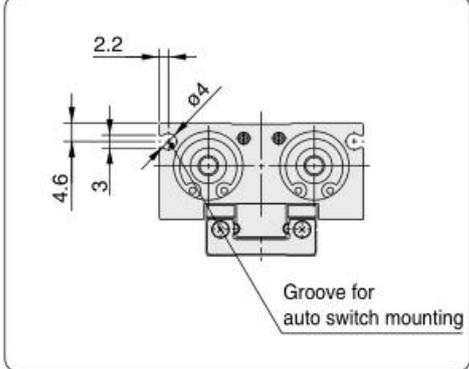


Dimensions

MHF2-16D

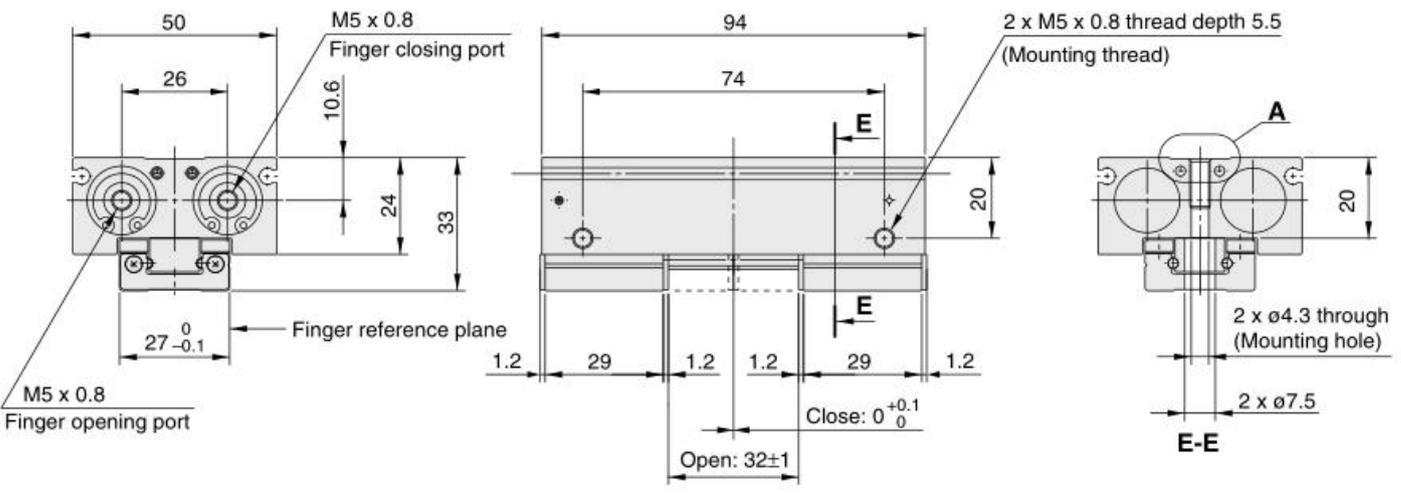
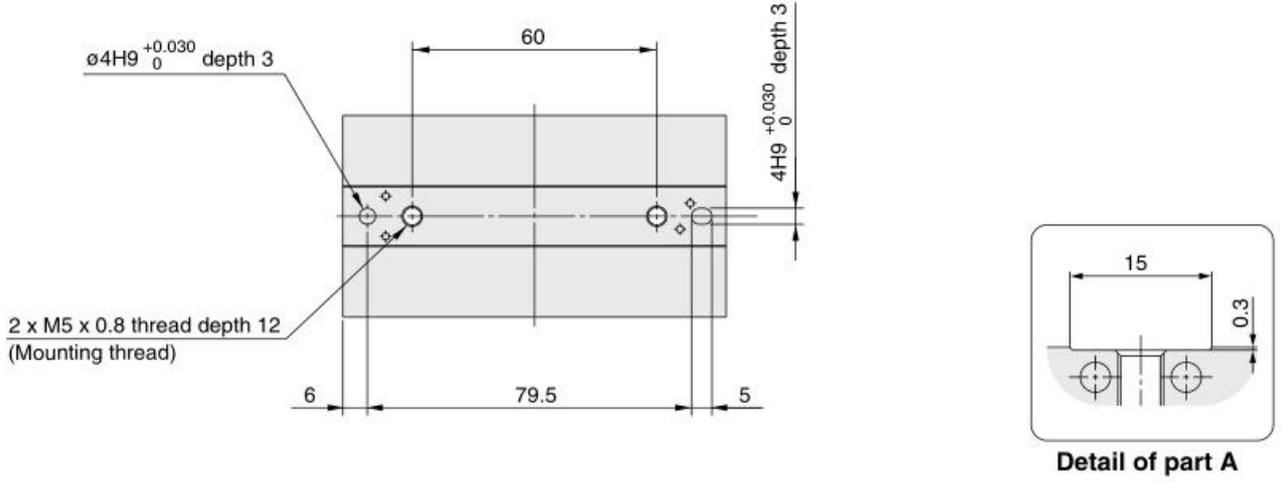


Auto Switch Mounting Groove Dimensions

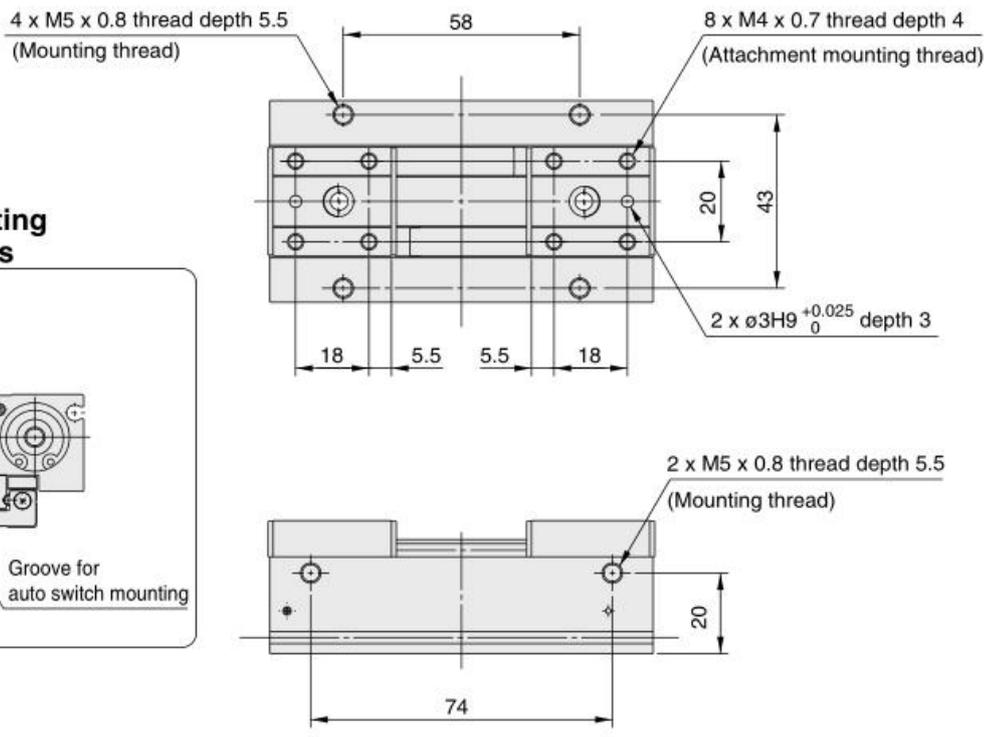
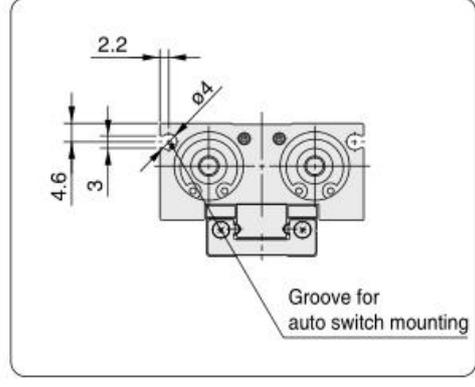


Dimensions

MHF2-16D1

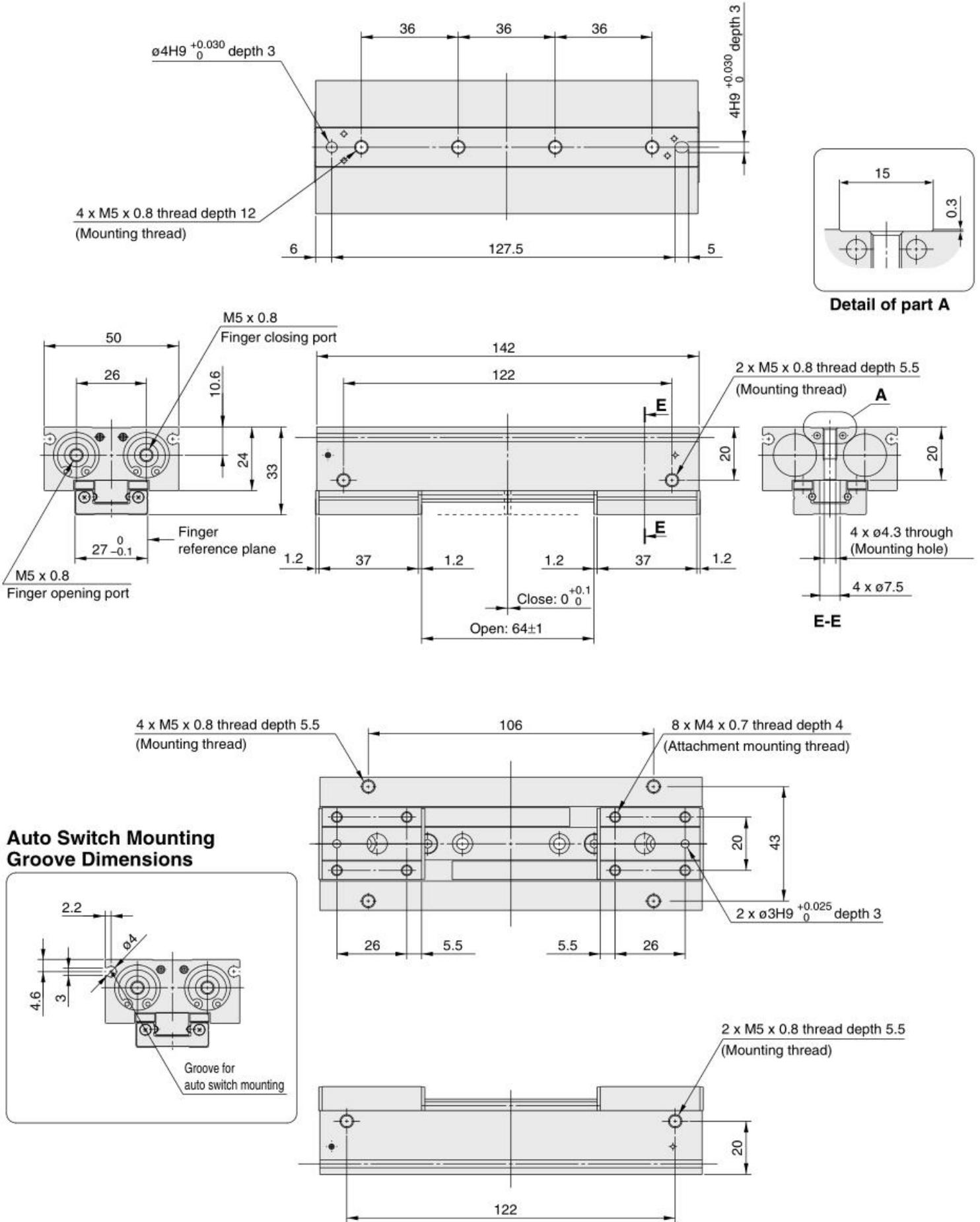


Auto Switch Mounting Groove Dimensions



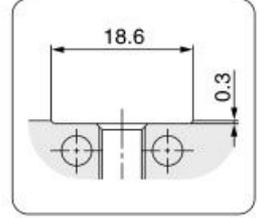
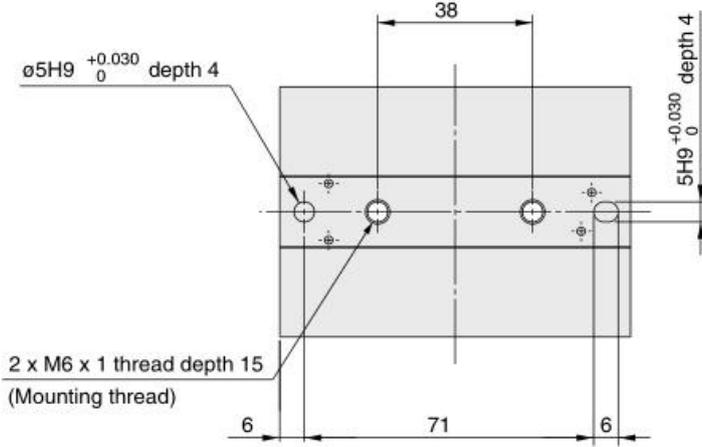
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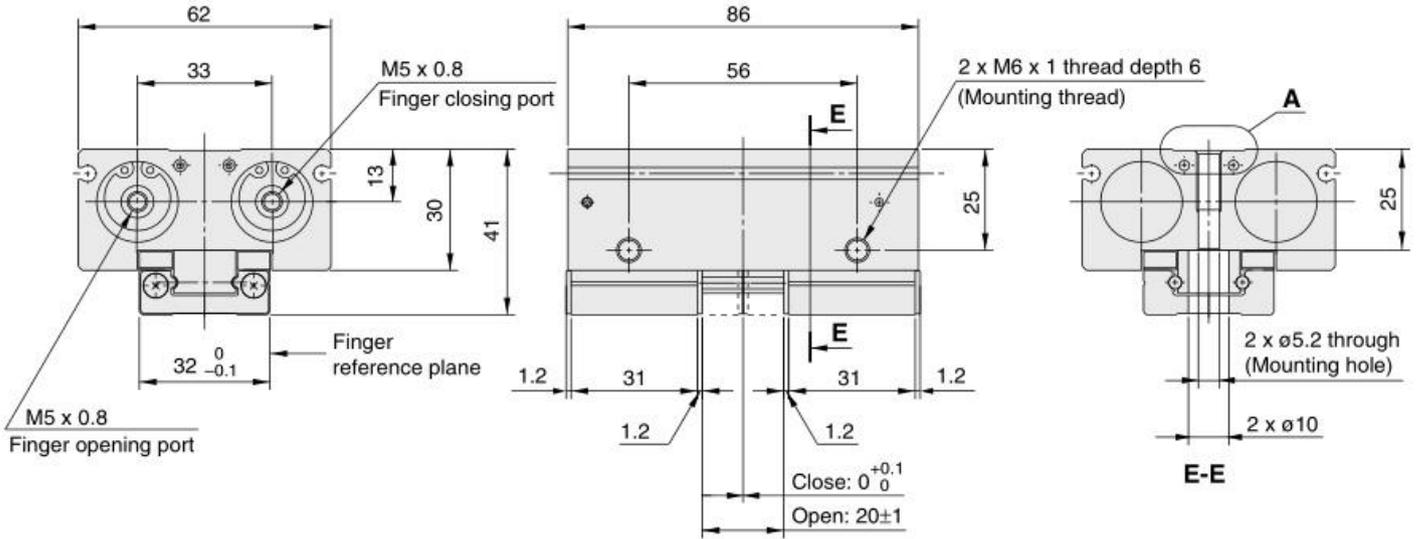


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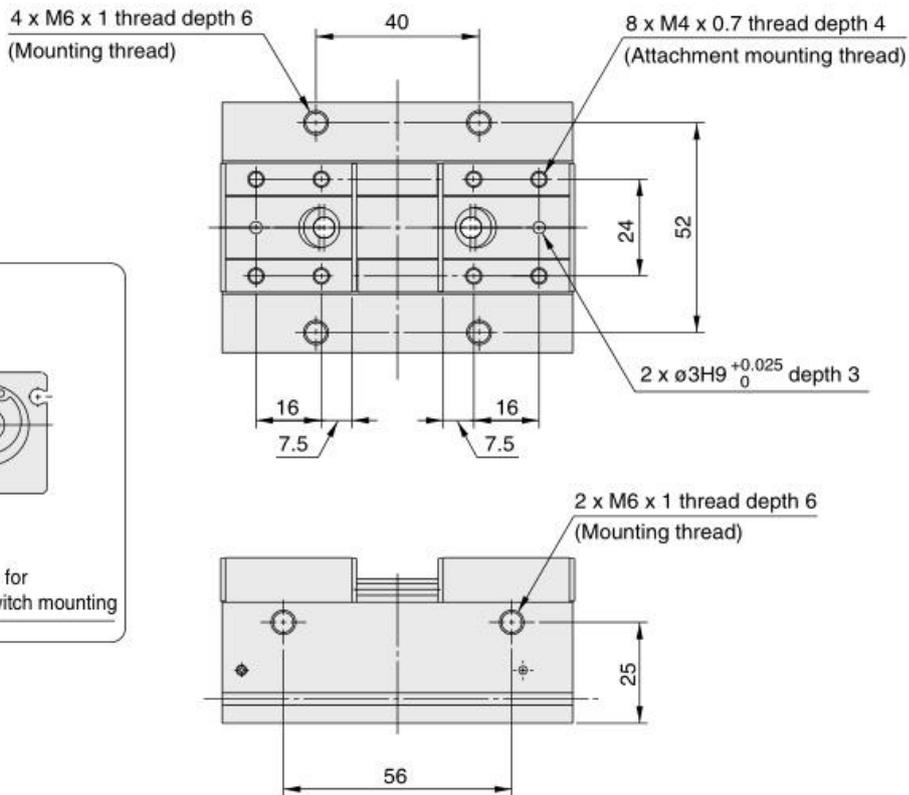
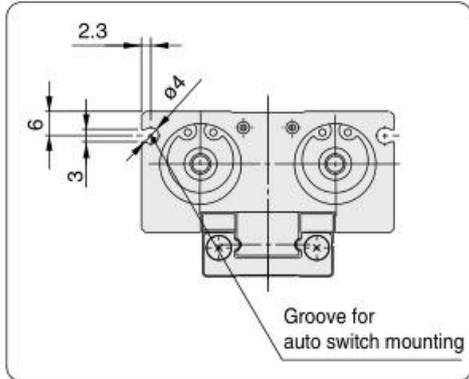
MHF2-20D



Detail of part A

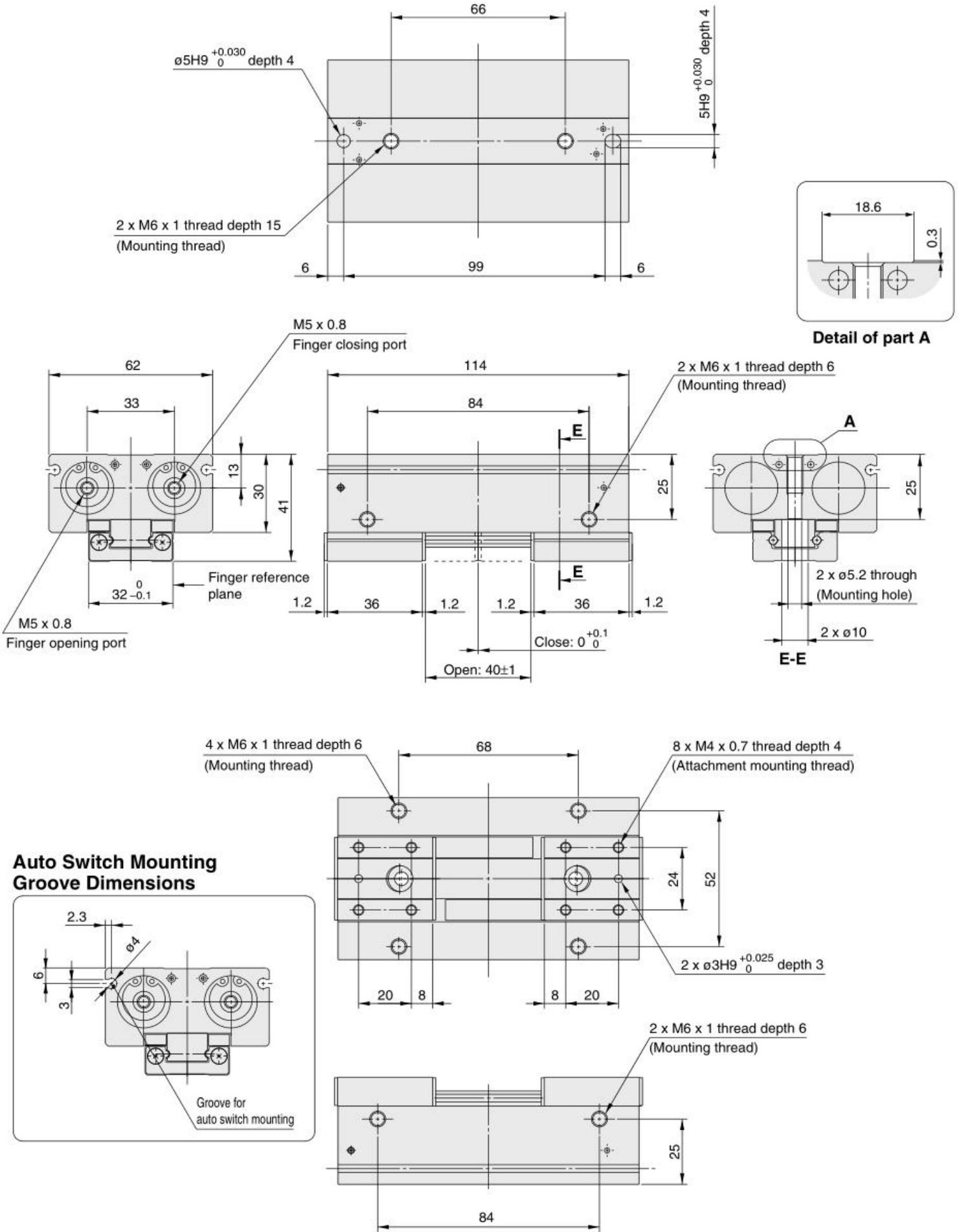


Auto Switch Mounting Groove Dimensions

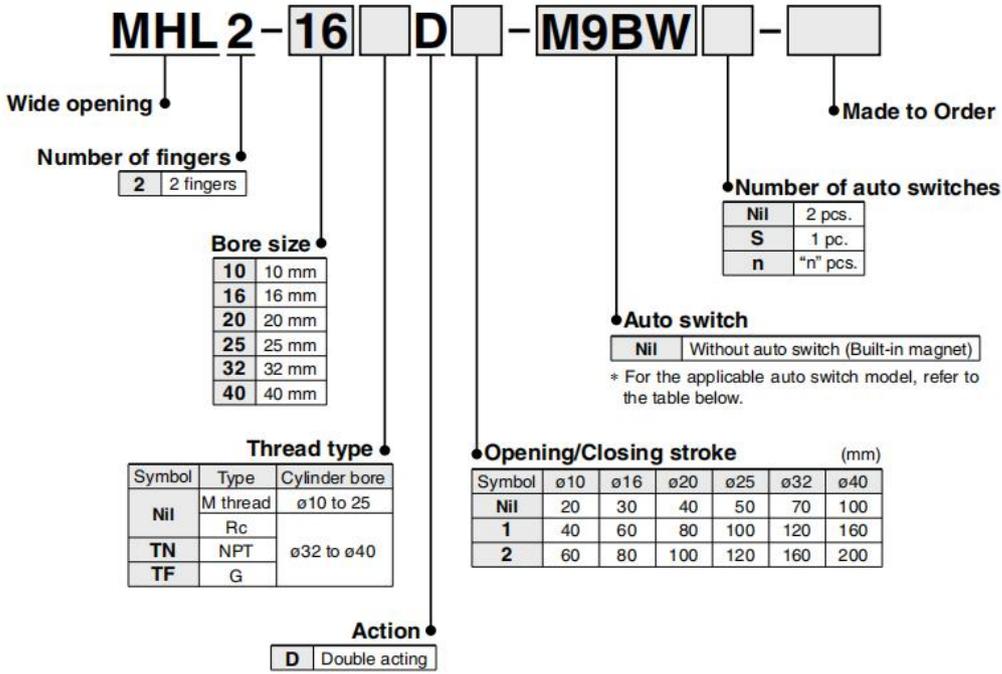


Dimensions

MHF2-20D1



How to Order



Specifications

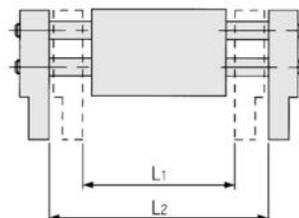
Bore size (mm)	10	16	20	25	32	40
Fluid	Air					
Action	Double acting					
Operating pressure (MPa)	0.15 to 0.6	0.1 to 0.6				
Ambient and fluid temperature	-10 to 60°C					
Repeatability	± 0.1					
Lubrication	Not required					
Effective gripping force (N) ^{Note)} at 0.5 MPa	14	45	74	131	228	396

Note) Gripping point = Bore size 10, 16, 20, 25: 40 mm, Bore size 32, 40: 80 mm.

Model/Stroke

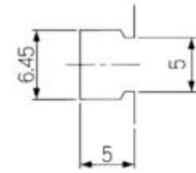
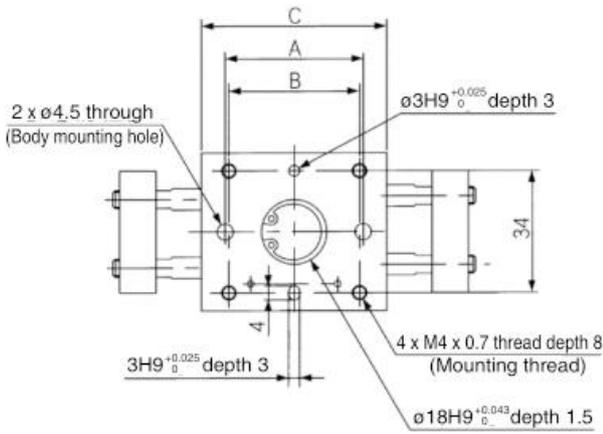
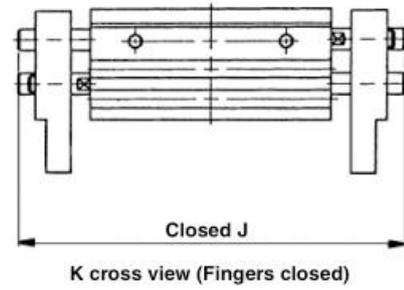
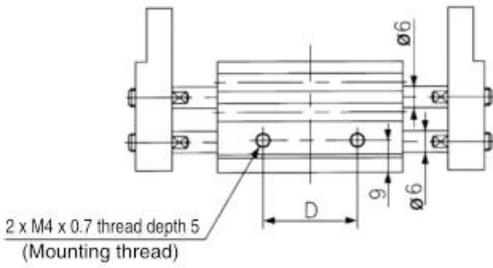
Model	Bore size (mm)	Max. operating frequency c.p.m	Opening/Closing stroke (mm) (L2-L1)	Width at closing (mm) (L1)	Width at opening (mm) (L2)	Weight (g)
MHL2-10D	10	60	20	56	76	280
MHL2-10D1			40	78	118	345
MHL2-10D2			60	96	156	425
MHL2-16D	16	60	30	68	98	585
MHL2-16D1			60	110	170	795
MHL2-16D2			80	130	210	935
MHL2-20D	20	60	40	82	122	1025
MHL2-20D1			80	142	222	1495
MHL2-20D2			100	162	262	1690
MHL2-25D	25	60	50	100	150	1690
MHL2-25D1			100	182	282	2560
MHL2-25D2			120	200	320	2775
MHL2-32D	32	30	70	150	220	2905
MHL2-32D1			120	198	318	3820
MHL2-32D2			160	242	402	4655
MHL2-40D	40	30	100	188	288	5270
MHL2-40D1			160	246	406	6830
MHL2-40D2			200	286	486	7905

Note) The open and close time spans represent the value when the exterior of the workpiece is being held.

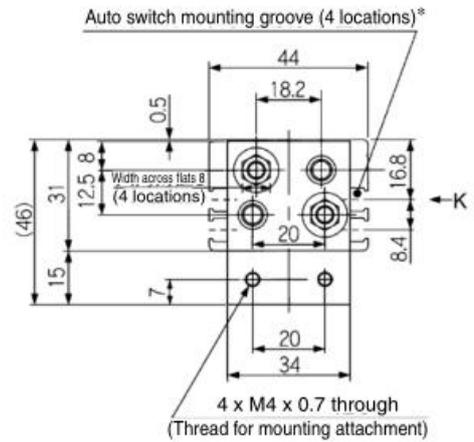
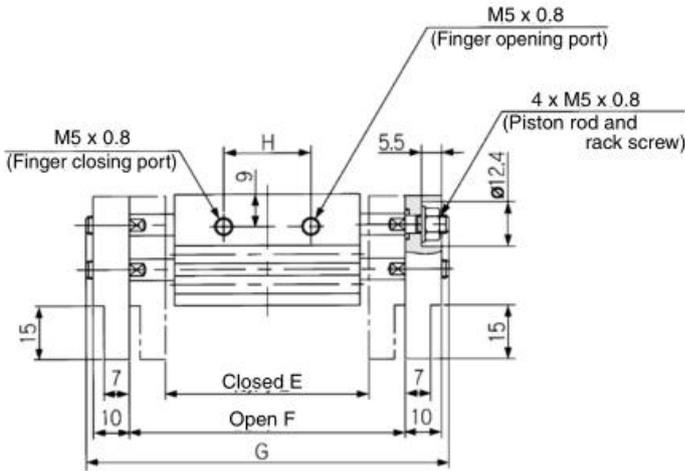


Dimensions

MHL2-10D □



* Dimensions of auto switch mounting groove (Enlarged view)



(mm)

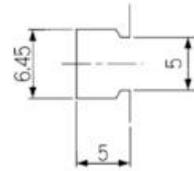
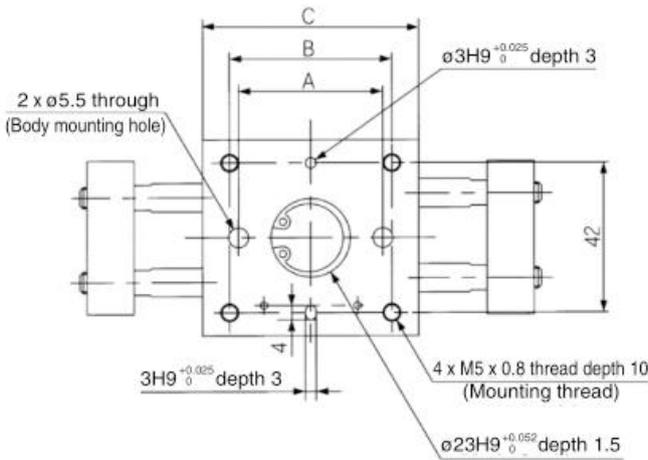
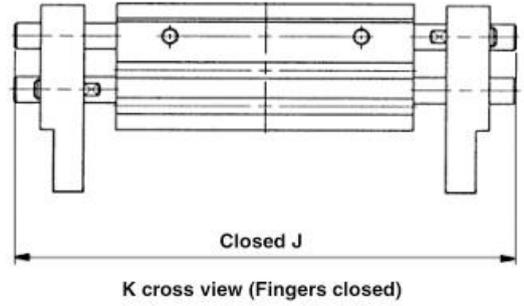
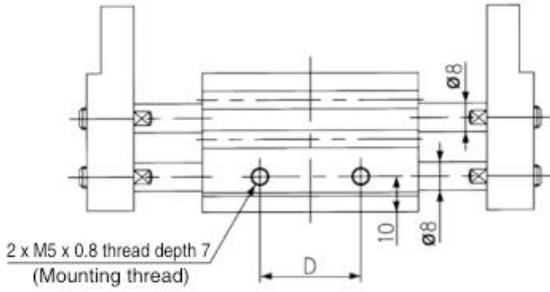
Model	A	B	C	D	E	F	G	H	J
MHL2-10D	38	36	51	26	56	76	100	24	80
MHL2-10D1	54	52	67	42	78	118	142	39	108
MHL2-10D2	72	70	85	60	96	156	180	57	146

Note 1) J dimension is at fully closed.

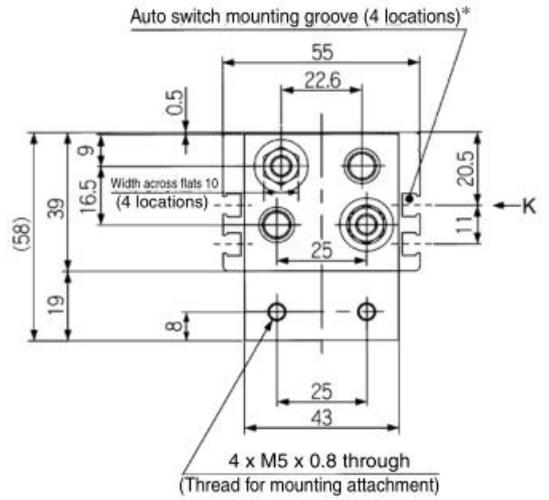
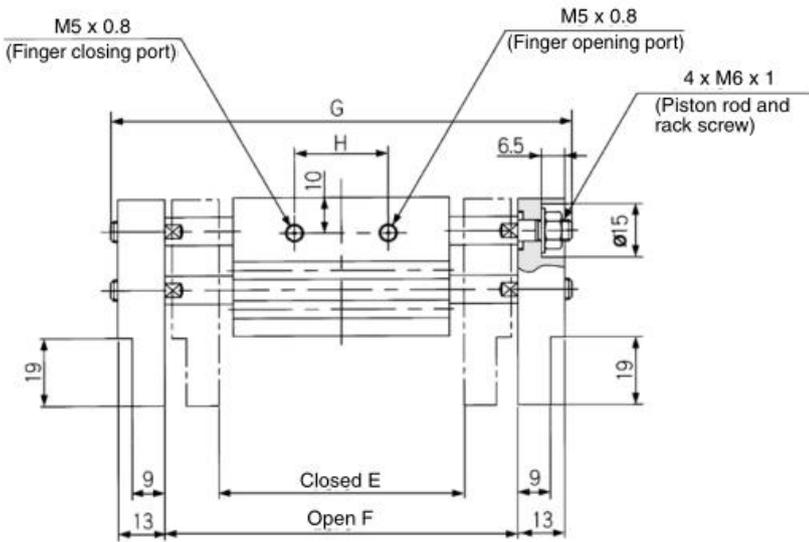
Note 2) D1 is different from D2 at finger closed because shaft is ejected from finger end. J dimension is different from the value which is subtracted stroke from G dimension.

Dimensions

MHL2-16D□



* Dimensions of auto switch mounting groove (Enlarged view)



(mm)

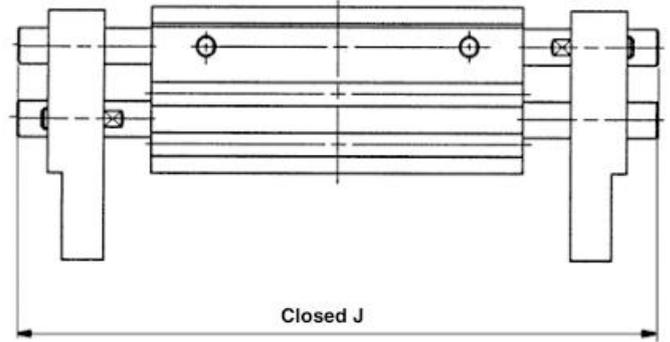
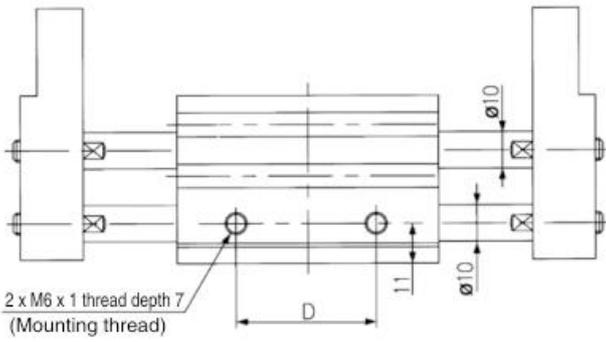
Model	A	B	C	D	E	F	G	H	J
MHL2-16D	40	45	60	28	68	98	128	26	98
MHL2-16D1	70	75	90	58	110	170	200	50	152
MHL2-16D2	90	95	110	78	130	210	240	70	192

Note 1) J dimension is at fully closed.

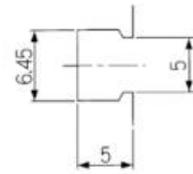
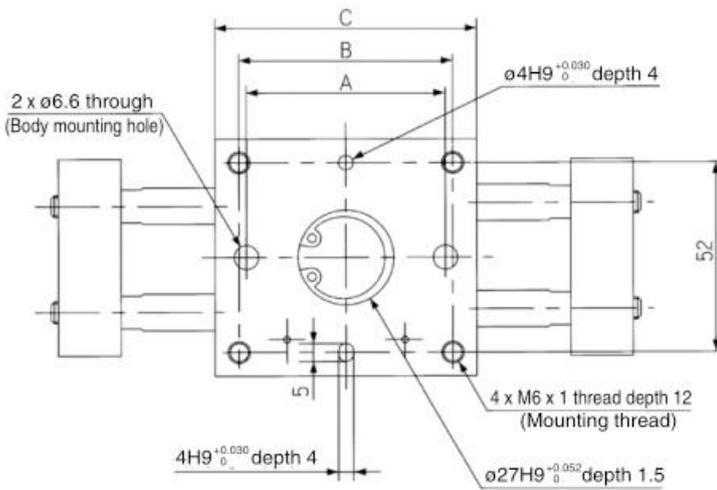
Note 2) D1 is different from D2 at finger closed because shaft is ejected from finger end. J dimension is different from the value which is subtracted stroke from G dimension.

Dimensions

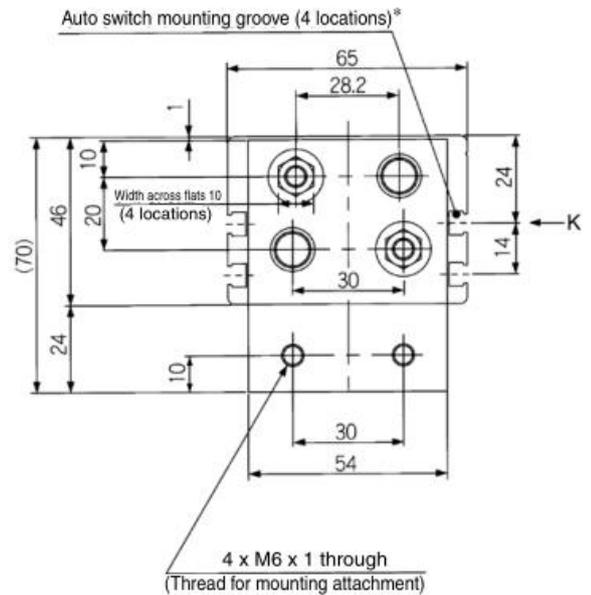
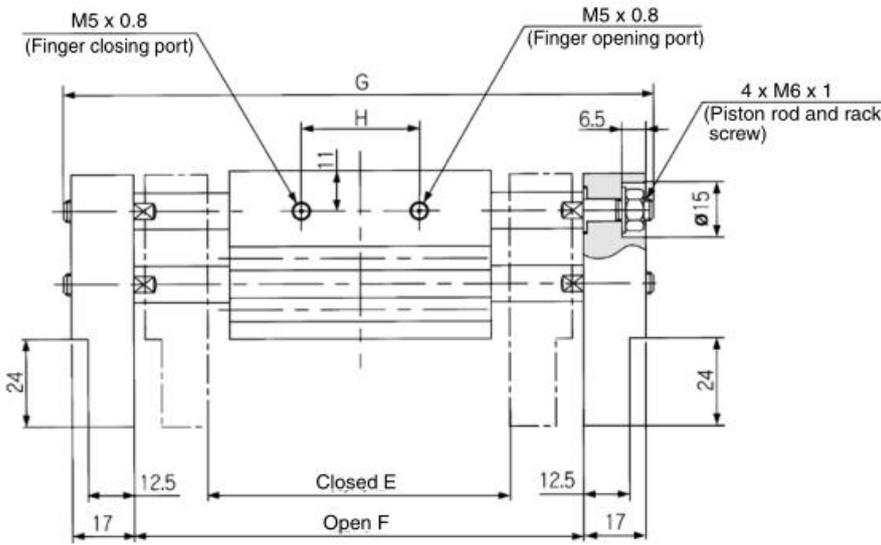
MHL2-20D □



K cross view (Fingers closed)



* Dimensions of auto switch mounting groove (Enlarged view)

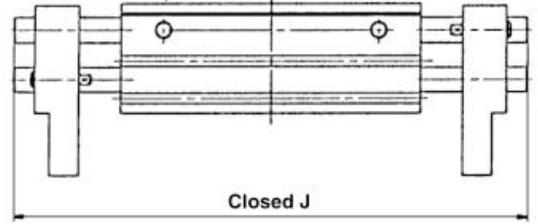
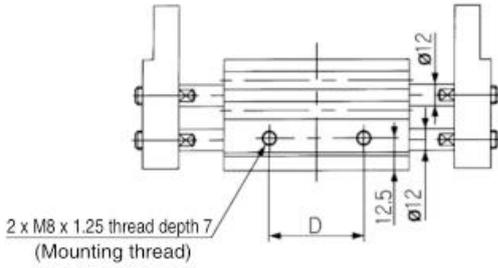


Model	A	B	C	D	E	F	G	H	J
MHL2-20D	54	58	71	38	82	122	160	32	120
MHL2-20D1	96	100	113	80	142	222	260	68	195
MHL2-20D2	116	120	133	100	162	262	300	88	235

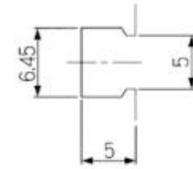
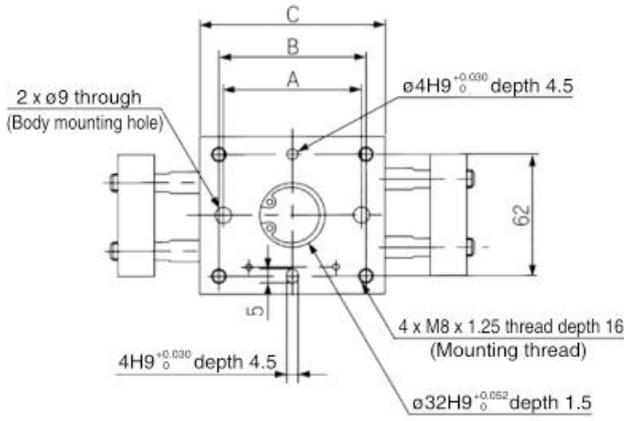
Note 1) J dimension is at fully closed.
 Note 2) D1 is different from D2 at finger closed because shaft is ejected from finger end. J dimension is different from the value which is subtracted stroke from G dimension.

Dimensions

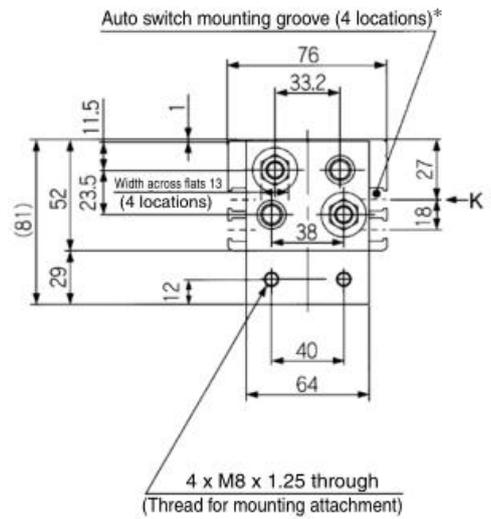
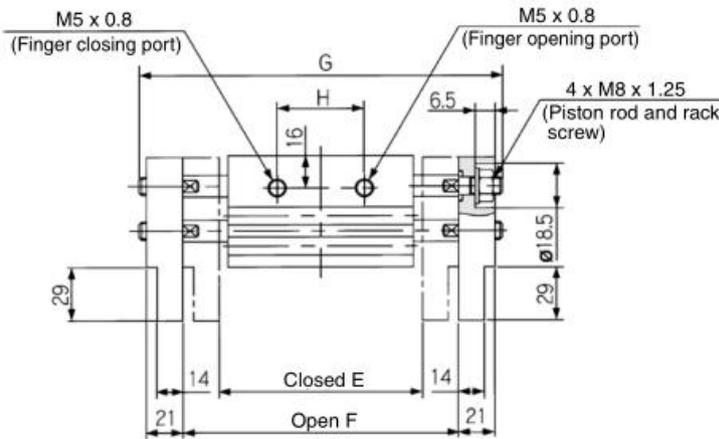
MHL2-25D□



K cross view (Fingers closed)



* Dimensions of auto switch mounting groove (Enlarged view)



(mm)

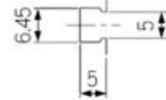
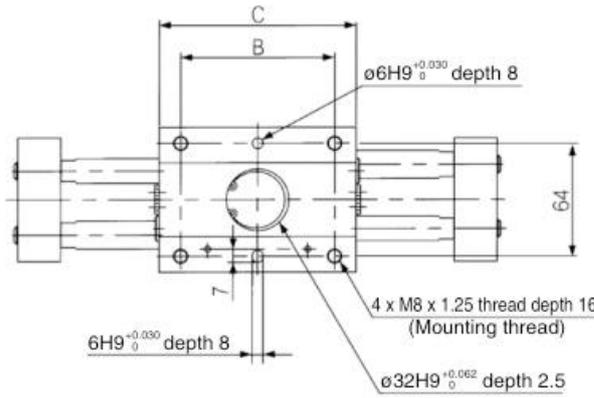
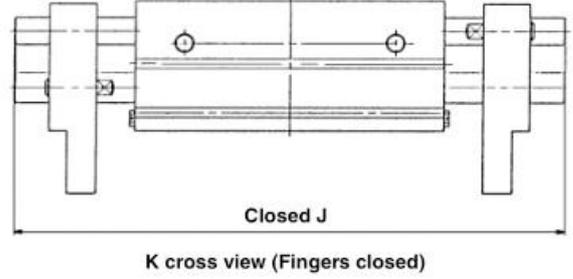
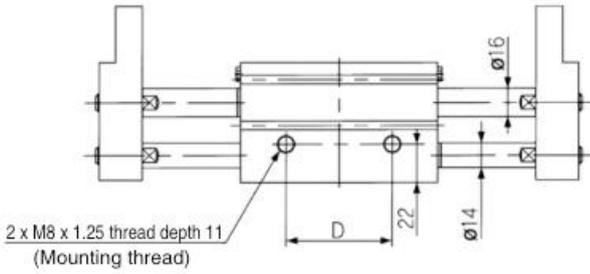
Model	A	B	C	D	E	F	G	H	J
MHL2-25D	66	70	88	48	100	150	196	38	146
MHL2-25D1	120	124	142	102	182	282	328	86	244
MHL2-25D2	138	142	160	120	200	320	366	104	282

Note 1) J dimension is at fully closed.

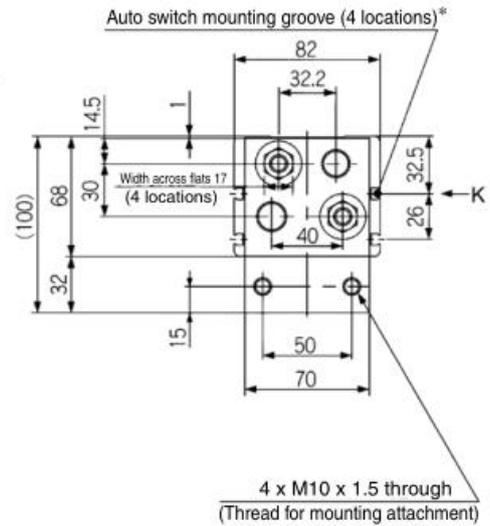
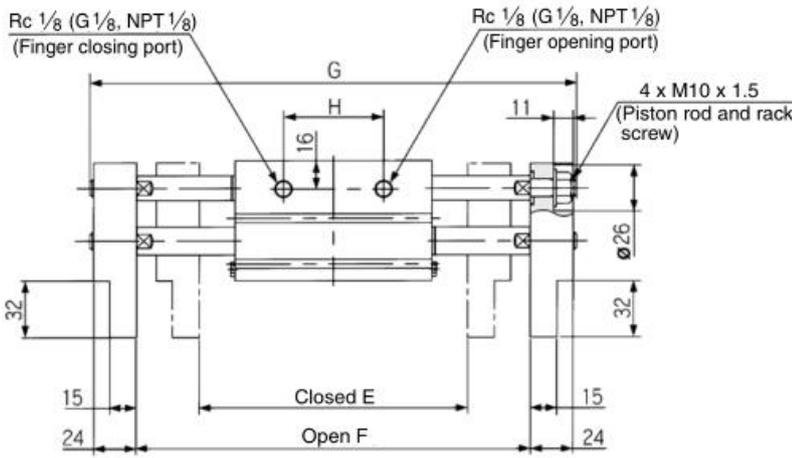
Note 2) D1 is different from D2 at finger closed because shaft is ejected from finger end. J dimension is different from the value which is subtracted stroke from G dimension.

Dimensions

MHL2-32D □



* Dimensions of auto switch mounting groove (Enlarged view)



(mm)

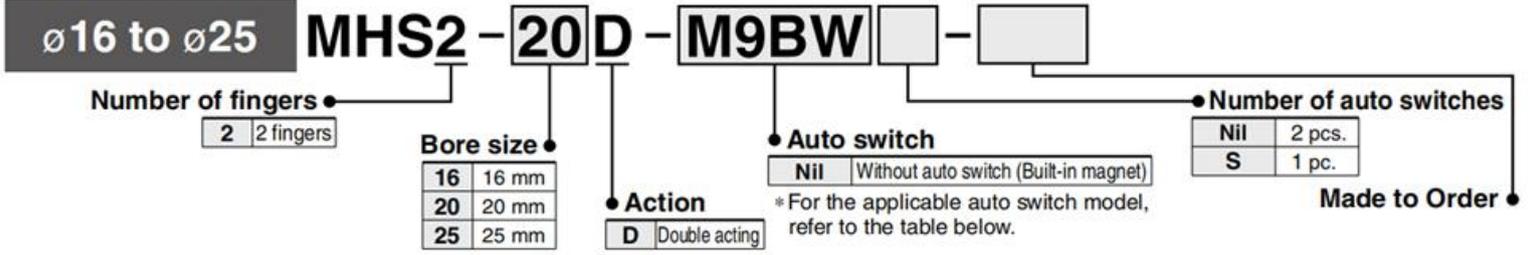
Model	B	C	D	E	F	G	H	J
MHL2-32D	86	110	60	150	220	272	56	202
MHL2-32D1	134	158	108	198	318	370	104	282
MHL2-32D2	178	202	152	242	402	454	148	366

Note 1) J dimension is at fully closed.

Note 2) D1 is different from D2 at finger closed because shaft is ejected from finger end. J dimension is different from the value which is subtracted stroke from G dimension.

How to Order

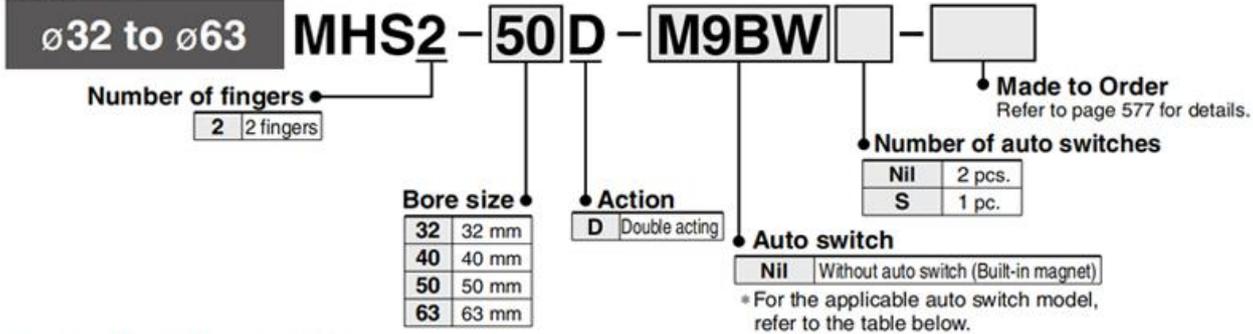
Bore size



Applicable Auto Switches/Refer to pages 797 to 850 for further information on 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	
					DC	AC	Perpendicular	In-line	0.5 (Nil)	1 (M)	3 (L)	5 (Z)		Relay, PLC	IC circuit
Solid state auto switch	—	Grommet	Yes	3-wire (NPN)	24 V	—	M9NV	M9N	●	●	●	○	○		
				3-wire (PNP)			M9PV	M9P	●	●	●	○			
				2-wire			M9BV	M9B	●	●	●	○			
				3-wire (NPN)			M9NWV	M9NW	●	●	●	○			
				3-wire (PNP)			M9PWV	M9PW	●	●	●	○			
				2-wire			M9BWV	M9BW	●	●	●	○			
	Diagnosis (2-color indicator)			M9NAV**	M9NA**	○	○	●	○	○	○	IC circuit			
				M9PAV**	M9PA**	○	○	●	○	○					
				M9BAV**	M9BA**	○	○	●	○	○			—		
				Water resistant (2-color indicator)	3-wire (NPN)	5 V,	M9NV	M9N	●	●				●	○
					3-wire (PNP)	12 V	M9PV	M9P	●	●				●	○
					2-wire	12 V	M9BV	M9B	●	●				●	○
3-wire (NPN)	5 V,	M9NWV	M9NW		●	●	●	○							
3-wire (PNP)	12 V	M9PWV	M9PW		●	●	●	○							
2-wire	12 V	M9BWV	M9BW		●	●	●	○							

Bore size



Applicable Auto Switches

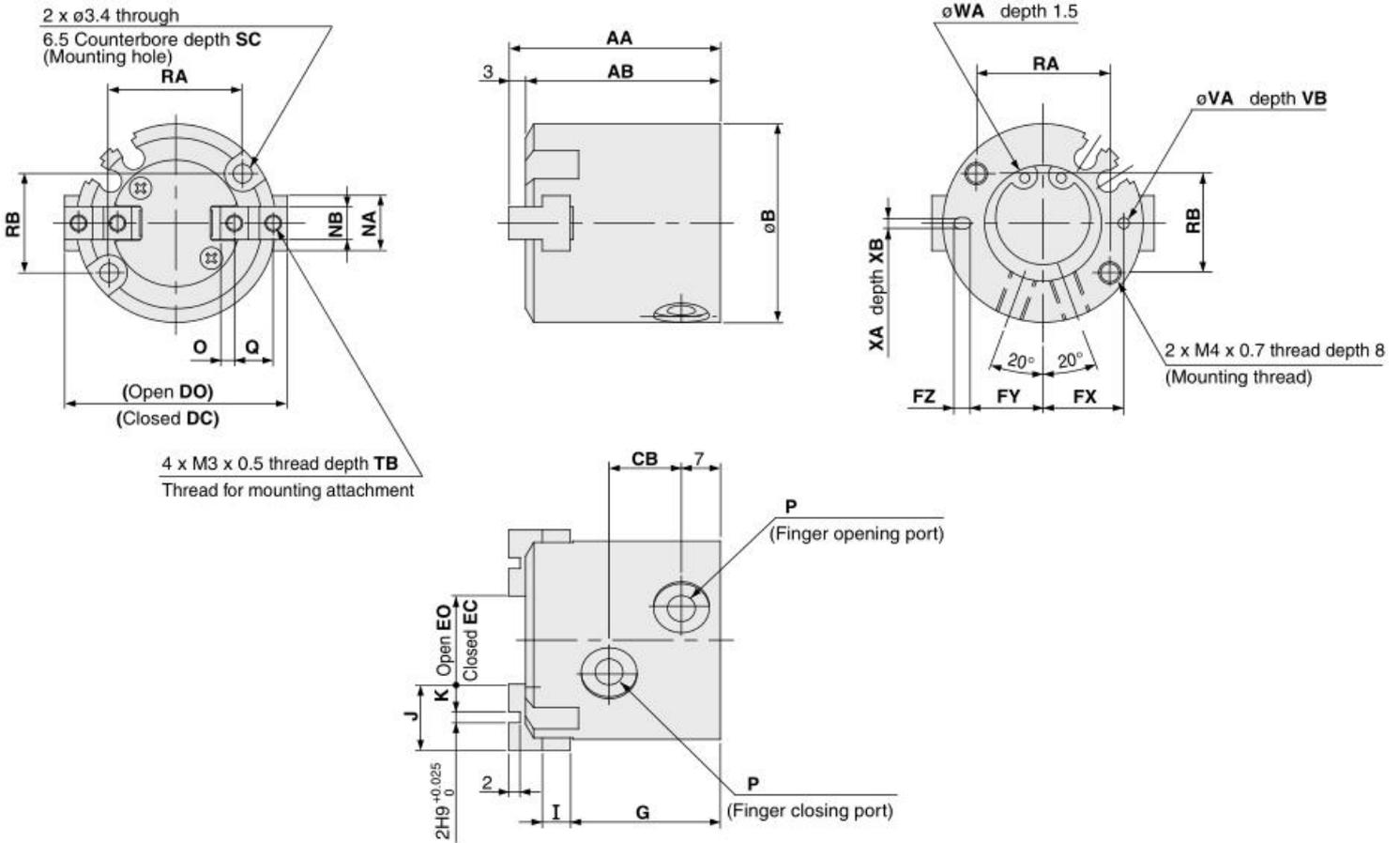
Type	Special function	Electrical entry	Indicator light	Wiring (Output)	Load voltage		Auto switch model		Lead wire length (m)*				Pre-wired connector	Applicable load	
					DC	AC	Perpendicular	In-line	0.5 (Nil)	1 (M)	3 (L)	5 (Z)		Relay, PLC	IC circuit
Solid state auto switch	—	Grommet	Yes	3-wire (NPN)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

Model	MHS2-16D	MHS2-20D	MHS2-25D	MHS2-32D	MHS2-40D	MHS2-50D	MHS2-63D	
Bore size (mm)	16	20	25	32	40	50	63	
Fluid	Air							
Operating pressure (MPa)	0.2 to 0.6			0.1 to 0.6				
Ambient and fluid temperature (°C)	-10 to 60							
Repeatability (mm)	±0.01							
Max. operating frequency (c.p.m.)	120			60				
Lubrication	Not required							
Action	Double acting							
Effective gripping force (N) at 0.5 MPa (Note)	External grip	21	37	63	111	177	280	502
	Internal grip	23	42	71	123	195	306	537
Opening/Closing stroke (Both sides) (mm)	4	4	6	8	8	12	16	
Weight (g)	58	96	134	265	345	515	952	

Note) Values for ø16 to ø25 are with gripping point L = 20 mm, and for ø32 to ø63 with gripping point L = 30 mm.
Refer to "Effective Gripping Force" data on pages 579 and 580 for the gripping force at each gripping position.

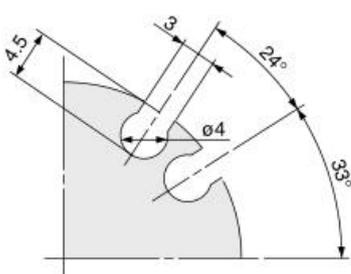
Dimensions

MHS2-16D to 25D

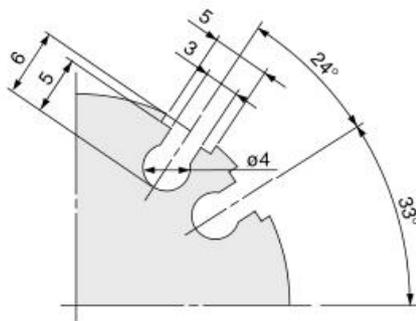


Auto switch mounting groove dimensions (2 locations)

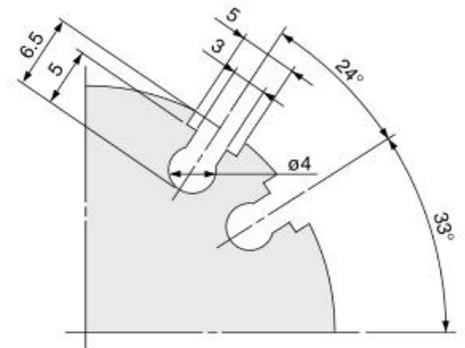
MHS2-16D



MHS2-20D



MHS2-25D



Model	AA	AB	B	CB	DC	DO	EC	EO	FX	FY	FZ	G	I	J	K	NA	NB	O	P	Q
MHS2-16D	35	32	30	11	30	34	10	14	12.5	11	3	25	4	10	4	8	5h9 ₀ ⁰ -0.030	2	M3 x 0.5	6
MHS2-20D	38	35	36	13	36	40	12	16	14.5	13	3	27	5	12	5	10	6h9 ₀ ⁰ -0.030	2.5	M5 x 0.8	7
MHS2-25D	40	37	42	15	42	48	14	20	17	14.5	5	28	5	14	6	12	6h9 ₀ ⁰ -0.030	3	M5 x 0.8	8

Model	RA	RB	SC	TB	VA	VB	WA	XA	XB
MHS2-16D	18	16	8	5	2H9 ₀ ^{+0.025}	2	17H9 ₀ ^{+0.043}	2H9 ₀ ^{+0.025}	2
MHS2-20D	24	18	9.5	6	2H9 ₀ ^{+0.025}	2	21H9 ₀ ^{+0.052}	2H9 ₀ ^{+0.025}	2
MHS2-25D	26	22	10	6	3H9 ₀ ^{+0.025}	3	26H9 ₀ ^{+0.052}	3H9 ₀ ^{+0.025}	3

How to Order

Bore size

ø16 to ø25 MHS3 - 20D - M9BW

Number of fingers: 3 (3 fingers)

Bore size: 16 (16 mm), 20 (20 mm), 25 (25 mm)

Action: D (Double acting)

Auto switch: Nil (Without auto switch (Built-in magnet))

Number of auto switches: Nil (2 pcs.), S (1 pc.)

Made to Order

* For the applicable auto switch model, refer to the table below.

Applicable Auto Switches/Refer to pages 797 to 850 for further information on 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	
					DC	AC	Perpendicular	In-line	0.5 (Nil)	1 (M)	3 (L)	5 (Z)		IC circuit	Relay, PLC
Solid state auto switch	—	Grommet	Yes	3-wire (NPN)	24 V	—	M9NV	M9N	●	●	●	○	○		
				3-wire (PNP)			M9PV	M9P	●	●	●	○	○		
				2-wire			M9BV	M9B	●	●	●	○	○		
				3-wire (NPN)			M9NVV	M9NV	●	●	●	○	○		
				3-wire (PNP)			M9PVV	M9PV	●	●	●	○	○		
				2-wire			M9BVV	M9BV	●	●	●	○	○		
	Diagnosis (2-color indicator)			3-wire (NPN)	M9NVV	M9NV	●	●	●	○	○	○	IC circuit		
				3-wire (PNP)	M9PVV	M9PV	●	●	●	○	○				
				2-wire	M9BVV	M9BV	●	●	●	○	○				
				3-wire (NPN)	M9NAV**	M9NA**	○	○	●	○	○				
				3-wire (PNP)	M9PAV**	M9PA**	○	○	●	○	○				
				2-wire	M9BAV**	M9BA**	○	○	●	○	○				
Water resistant (2-color indicator)	3-wire (NPN)	M9NAV**	M9NA**	○	○	●	○	○	○	IC circuit					
	3-wire (PNP)	M9PAV**	M9PA**	○	○	●	○	○							
	2-wire	M9BAV**	M9BA**	○	○	●	○	○							

Bore size

ø32 to ø125 MHS3 - 50 D - M9BW

Number of fingers: 3 (3 fingers)

Bore size: 32 (32 mm), 40 (40 mm), 50 (50 mm), 63 (63 mm), 80 (80 mm), 100 (100 mm), 125 (125 mm)

Action: D (Double acting)

Port thread type: Nil (M thread, ø32 to ø63), TN (NPT, ø80 to ø125), TF (G)

Number of auto switch: Nil (2 pcs.), S (1 pc.), n ("n" pcs.)

Auto switch: Nil (Without auto switch (Built-in magnet))

* For the applicable auto switch model, refer to the table below.

Made to Order
Refer to page 585 for details.

Applicable Auto Switches

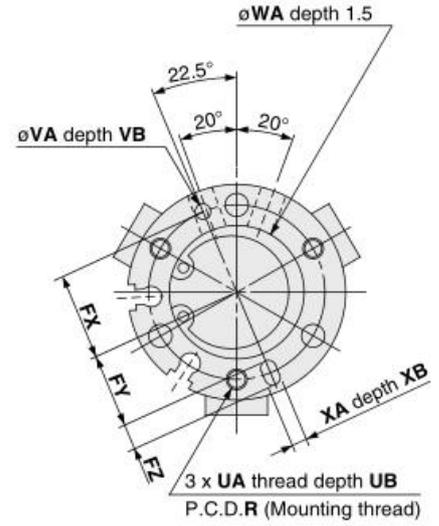
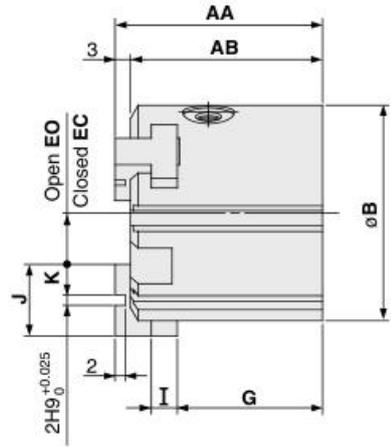
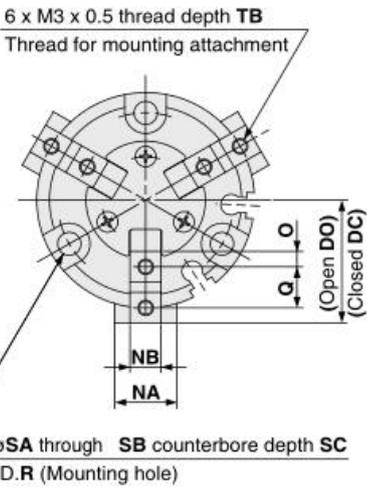
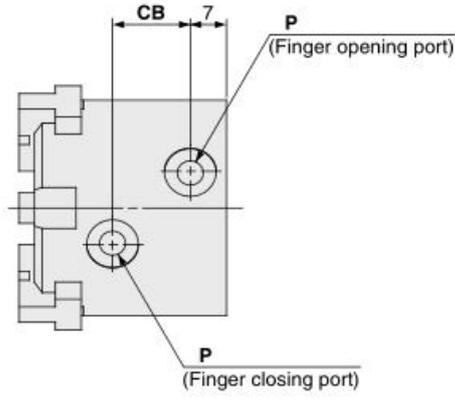
Type	Special function	Electrical entry	Indicator light	Wiring (Output)	Load voltage		Auto switch model		Lead wire length (m)*				Pre-wired connector	Applicable load	
					DC	AC	Perpendicular	In-line	0.5 (Nil)	1 (M)	3 (L)	5 (Z)		IC circuit	Relay, PLC
Solid state auto switch	—	Grommet	Yes	3-wire (NPN)	24 V	—	M9NV	M9N	●	●	●	○	○		
				3-wire (PNP)			M9PV	M9P	●	●	●	○	○		
				2-wire			M9BV	M9B	●	●	●	○	○		
				3-wire (NPN)			M9NVV	M9NV	●	●	●	○	○		
				3-wire (PNP)			M9PVV	M9PV	●	●	●	○	○		
				2-wire			M9BVV	M9BV	●	●	●	○	○		
	Diagnosis (2-color indicator)			3-wire (NPN)	M9NVV	M9NV	●	●	●	○	○	○	IC circuit		
				3-wire (PNP)	M9PVV	M9PV	●	●	●	○	○				
				2-wire	M9BVV	M9BV	●	●	●	○	○				
				3-wire (NPN)	M9NAV**	M9NA**	○	○	●	○	○				
				3-wire (PNP)	M9PAV**	M9PA**	○	○	●	○	○				
				2-wire	M9BAV**	M9BA**	○	○	●	○	○				
Water resistant (2-color indicator)	3-wire (NPN)	M9NAV**	M9NA**	○	○	●	○	○	○	IC circuit					
	3-wire (PNP)	M9PAV**	M9PA**	○	○	●	○	○							
	2-wire	M9BAV**	M9BA**	○	○	●	○	○							

Model	MHS3-16D	MHS3-20D	MHS3-25D	MHS3-32D	MHS3-40D	MHS3-50D	MHS3-63D	MHS3-80D	MHS3-100D	MHS3-125D	
Cylinder bore size (mm)	16	20	25	32	40	50	63	80	100	125	
Fluid	Air										
Operating pressure (MPa)	0.2 to 0.6					0.1 to 0.6					
Ambient and fluid temperature (°C)	-10 to 60										
Repeatability (mm)	±0.01										
Max. operating frequency (c.p.m.)	120					60			30		
Lubrication	Not required										
Action	Double acting										
Effective gripping force (N) at 0.5 MPa^{Note 1)}	External grip	14	25	42	74	118	187	335	500	750	1,270
	Internal grip	16	28	47	82	130	204	359	525	780	1,320
Opening/Closing stroke (mm) (dia.)	4	4	6	8	8	12	16	20	24	32	
Weight (g)	60	100	140	237	351	541	992	1,850	3,340	6,460	

Note 1) Values for ø16 to ø25 are with gripping point L = 20 mm, for ø32 to ø63 with gripping point L = 30 mm, and for ø80 to ø125 with gripping point L = 50 mm. Refer to "Effective Gripping Force" data on pages 587 to 589 for the gripping force at each gripping position.

Dimensions

MHS3-16D to 25D

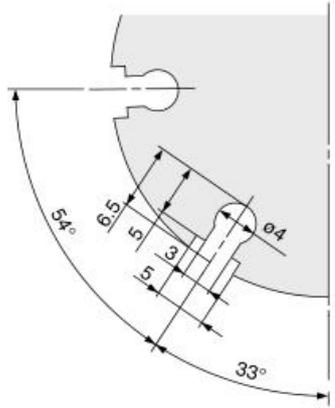
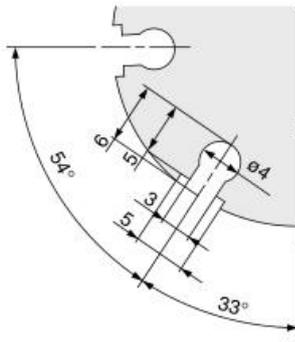
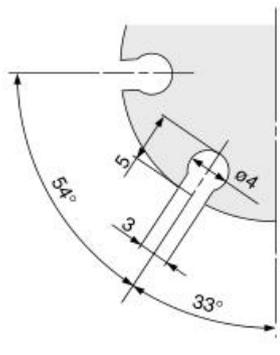


Auto switch mounting groove dimentions (2 locations)

MHS3-16D

MHS3-20D

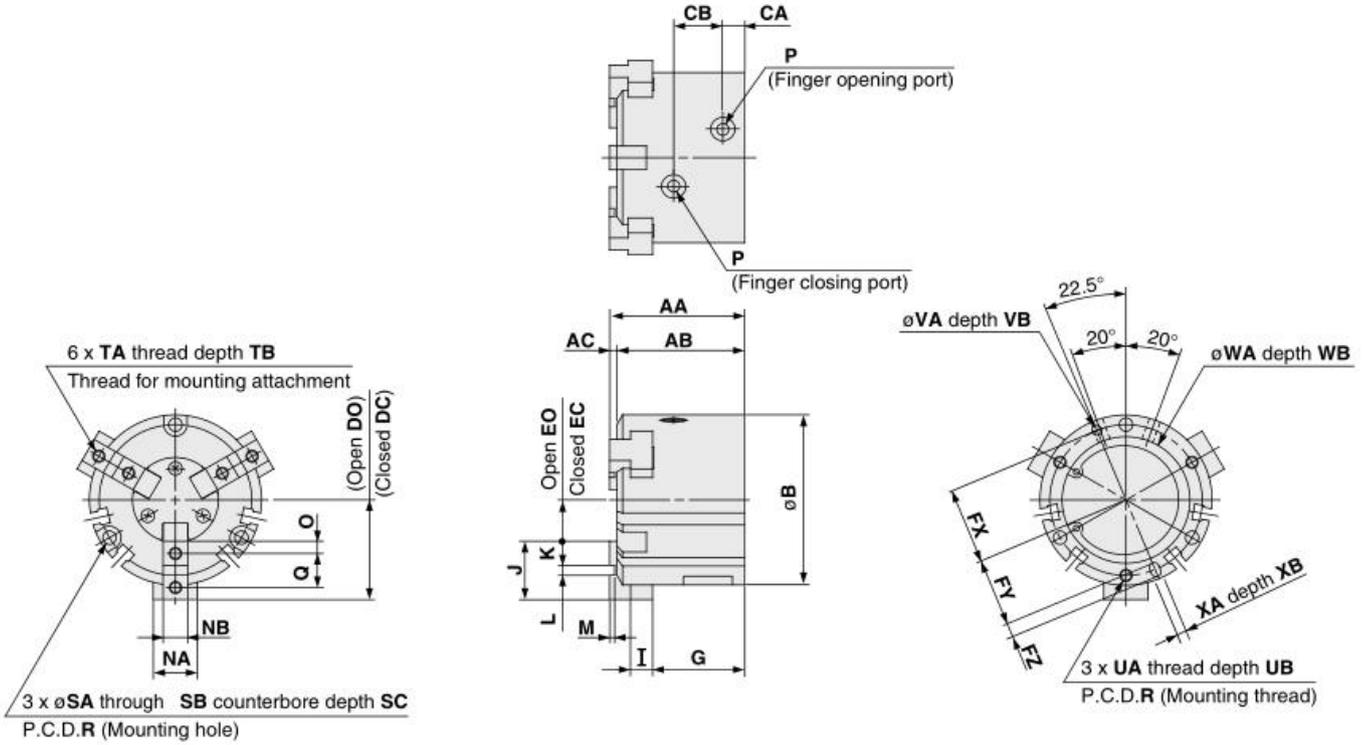
MHS3-25D



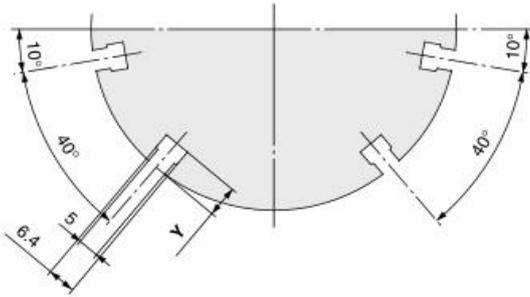
Model	AA	AB	B	CB	DC	DO	EC	EO	FX	FY	FZ	G	I	J	K	NA	NB	O	P	Q	R
MHS3-16D	35	32	30	11	15	17	5	7	12.5	11	3	25	4	10	4	8	5h9 ⁰ _{-0.030}	2	M3 x 0.5	6	25
MHS3-20D	38	35	36	13	18	20	6	8	14.5	13	3	27	5	12	5	10	6h9 ⁰ _{-0.030}	2.5	M5 x 0.8	7	29
MHS3-25D	40	37	42	15	21	24	7	10	17	14.5	5	28	5	14	6	12	6h9 ⁰ _{-0.030}	3	M5 x 0.8	8	34

Model	SA	SB	SC	TB	UA	UB	VA	VB	WA	XA	XB
MHS3-16D	3.4	6.5	8	5	M3 x 0.5	4.5	2H9 ^{+0.025} ₀	2	17H9 ^{+0.043} ₀	2H9 ^{+0.025} ₀	2
MHS3-20D	3.4	6.5	9.5	6	M3 x 0.5	6	2H9 ^{+0.025} ₀	2	21H9 ^{+0.052} ₀	2H9 ^{+0.025} ₀	2
MHS3-25D	4.5	8	10	6	M4 x 0.7	6	3H9 ^{+0.025} ₀	3	26H9 ^{+0.052} ₀	3H9 ^{+0.025} ₀	3

MHS3-32D to 80D



Auto switch mounting groove dimensions (4 locations)

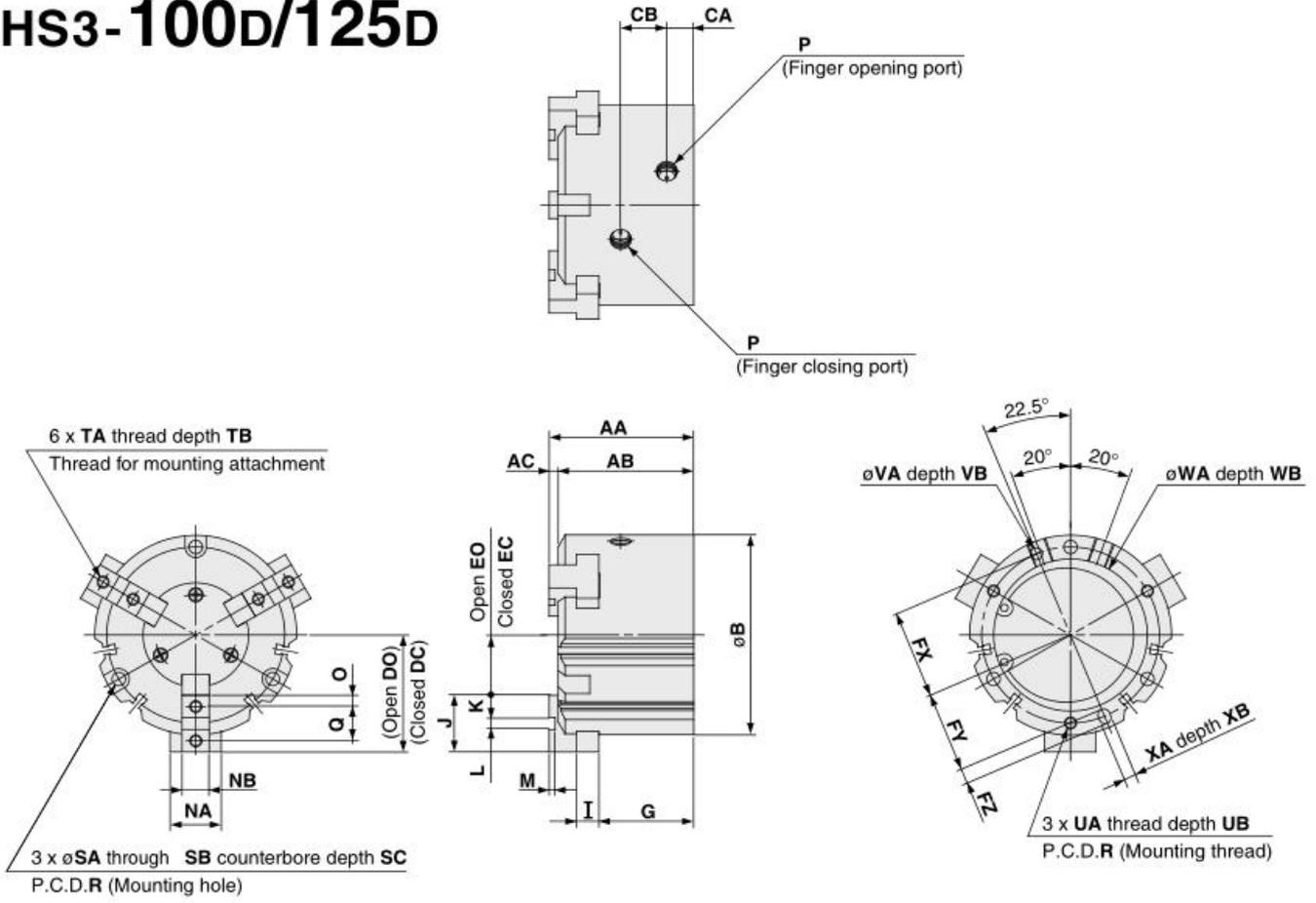


Model	AA	AB	AC	B	CA	CB	DC	DO	EC	EO	FX	FY	FZ	G	I	J	K	L	M	NA	NB
MHS3-32D	44	41	3	52	8	16	28	32	8	12	22	19.5	5	30.5	6	20	9	2H9 ^{+0.025} ₀	2	14	8h9 ⁰ _{-0.036}
MHS3-40D	47	44	3	62	9	17	31	35	10	14	26.5	23.5	6	32	7	21	9	3H9 ^{+0.025} ₀	2	16	8h9 ⁰ _{-0.036}
MHS3-50D	55	52	3	70	9	20	35	41	11	17	31	28	6	37.5	9	24	10	4H9 ^{+0.030} ₀	2	18	10h9 ⁰ _{-0.036}
MHS3-63D	66	62	4	86	12	22	43	51	15	23	38	34.5	7	44	11	28	11	6H9 ^{+0.030} ₀	3	24	12h9 ⁰ _{-0.043}
MHS3-80D	82	77	5	106	13.5	27	53.5	63.5	21.5	31.5	47.5	43.5	8	56	12	32	12	8H9 ^{+0.036} ₀	4	28	14h9 ⁰ _{-0.043}

Model	O	P	Q	R	SA	SB	SC	TA	TB	UA	UB	VA	VB	WA	WB	XA	XB	Y
MHS3-32D	4.5	M5 x 0.8	11	44	4.5	8	9	M4 x 0.7	8	M4 x 0.7	6	3H9 ^{+0.025} ₀	3	34H9 ^{+0.062} ₀	2	3H9 ^{+0.025} ₀	3	6
MHS3-40D	4.5	M5 x 0.8	12	53	5.5	9.5	9	M4 x 0.7	8	M5 x 0.8	7.5	4H9 ^{+0.030} ₀	4	42H9 ^{+0.062} ₀	2	4H9 ^{+0.030} ₀	4	8
MHS3-50D	5	M5 x 0.8	14	62	5.5	9.5	12	M5 x 0.8	10	M5 x 0.8	10	4H9 ^{+0.030} ₀	4	52H9 ^{+0.074} ₀	2	4H9 ^{+0.030} ₀	4	7
MHS3-63D	5.5	M5 x 0.8	17	76	6.6	11	14	M5 x 0.8	10	M6 x 1	9	5H9 ^{+0.030} ₀	5	65H9 ^{+0.074} ₀	2.5	5H9 ^{+0.030} ₀	5	7.5
MHS3-80D	6	Rc 1/8 (G 1/8, NPT 1/8)	20	95	6.6	11	19	M6 x 1	12	M6 x 1	12	6H9 ^{+0.030} ₀	6	82H9 ^{+0.087} ₀	3	6H9 ^{+0.030} ₀	6	9

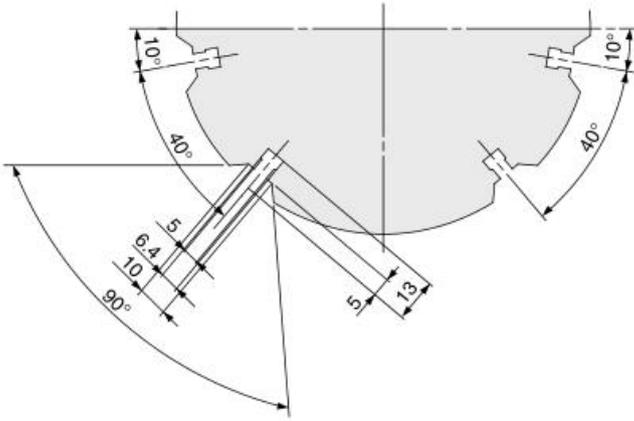
Dimensions

MHS3-100D/125D

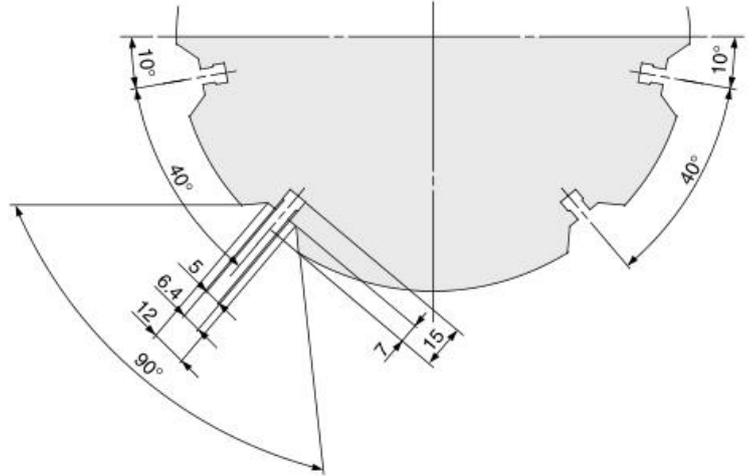


Auto switch mounting groove positions (4 locations)

MHS3-100D



MHS3-125D



Model	AA	AB	AC	B	CA	CB	DC	DO	EC	EO	FX	FY	FZ	G	I	J	K	L	M	NA	NB
MHS3-100D	96	90	6	134	18	30.6	66	78	28	40	59	54	10	63	15	38	15	8H9 ^{+0.036} ₀	4	34	18h9 ⁰ _{-0.043}
MHS3-125D	122	114	8	166	23.5	38	82	98	30	46	74	68	12	84	18	52	21	10H9 ^{+0.036} ₀	6	40	22h9 ⁰ _{-0.052}
Model	O	P	Q	R	SA	SB	SC	TA	TB	UA	UB	VA	VB	WA	WB	XA	XB				
MHS3-100D	7.5	Rc 1/4 (G 1/4, NPT 1/4)	23	118	9	14	21	M8 x 1.25	16	M8 x 1.25	16	8H9 ^{+0.036} ₀	6	102H9 ^{+0.087} ₀	4	8H9 ^{+0.036} ₀	6				
MHS3-125D	10.5	Rc 3/8 (G 3/8, NPT 3/8)	31	148	11	17.5	34	M10 x 1.5	20	M10 x 1.5	20	10H9 ^{+0.036} ₀	8	130H9 ^{+0.100} ₀	6	10H9 ^{+0.036} ₀	8				

(mm)

How to Order

Bore size

ø16 to ø25 MHS4 - 20 D - M9BW

Number of fingers: 4 (4 fingers)

Bore size: 16 (16 mm), 20 (20 mm), 25 (25 mm)

Action: D (Double acting)

Auto switch: Nil (Without auto switch (Built-in magnet)), S (1 pc.)

Number of auto switches: Nil (2 pcs.), S (1 pc.)

Made to Order

* For the applicable auto switch model, refer to the table below.

Applicable Auto Switches/Refer to pages 797 to 850 for further information on 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			
					DC	AC	Perpendicular	In-line	0.5 (Nil)	1 (M)	3 (L)	5 (Z)		IC circuit	Relay, PLC		
Solid state auto switch	—	Grommet	Yes	3-wire (NPN)	24 V	5 V, 12 V	—	M9NV	M9N	●	●	●	○			○	IC circuit
				3-wire (PNP)				M9PV	M9P	●	●	●	○	○			
				2-wire				M9BV	M9B	●	●	●	○	○			
				3-wire (NPN)				M9NVV	M9NV	●	●	●	○	○	IC circuit		
				3-wire (PNP)				M9PVV	M9PV	●	●	●	○	○			
				2-wire				M9BVV	M9BW	●	●	●	○	○	—		
	Water resistant (2-color indicator)			3-wire (NPN)	M9NAV**	M9NA**	○	○	●	○	○	IC circuit					
				3-wire (PNP)	M9PAV**	M9PA**	○	○	●	○	○						
				2-wire	M9BAV**	M9BA**	○	○	●	○	○	—					

Bore size

ø32 to ø63 MHS4 - 50 D - M9BW

Number of fingers: 4 (4 fingers)

Bore size: 32 (32 mm), 40 (40 mm), 50 (50 mm), 63 (63 mm)

Action: D (Double acting)

Auto switch: Nil (Without auto switch (Built-in magnet)), S (1 pc.)

Number of auto switches: Nil (2 pcs.), S (1 pc.)

Made to Order
Refer to page 629 for details.

* For the applicable auto switch model, refer to the table below.

Applicable Auto Switches

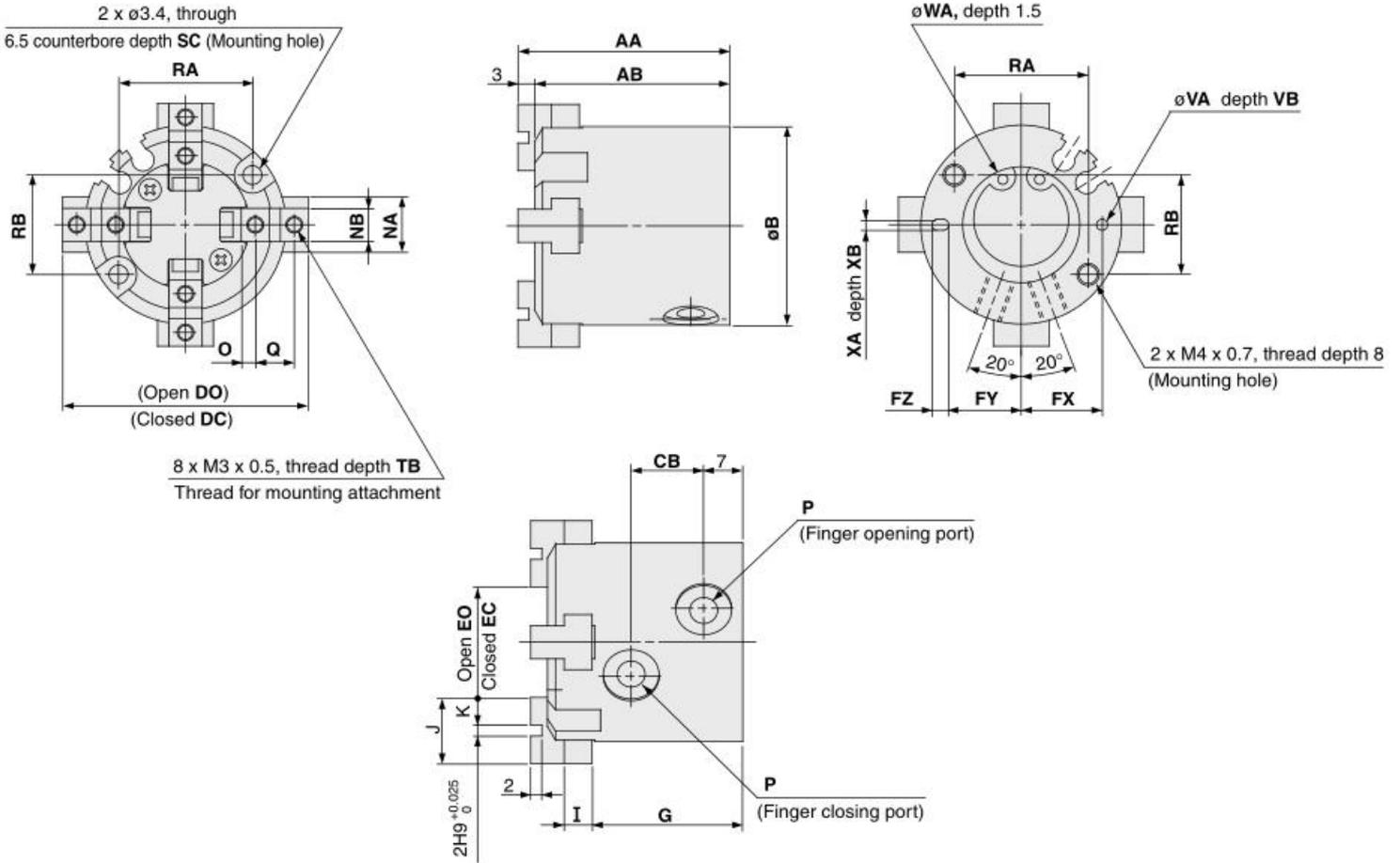
Type	Special function	Electrical entry	Indicator light	Wiring (Output)	Load voltage		Auto switch model		Lead wire length (m)*				Pre-wired connector	Applicable load			
					DC	AC	Perpendicular	In-line	0.5 (Nil)	1 (M)	3 (L)	5 (Z)		IC circuit	Relay, PLC		
Solid state auto switch	—	Grommet	Yes	3-wire (NPN)	24 V	5 V, 12 V	—	M9NV	M9N	●	●	●	○			○	IC circuit
				3-wire (PNP)				M9PV	M9P	●	●	●	○	○			
				2-wire				M9BV	M9B	●	●	●	○	○			
				3-wire (NPN)				M9NVV	M9NV	●	●	●	○	○	IC circuit		
				3-wire (PNP)				M9PVV	M9PV	●	●	●	○	○			
				2-wire				M9BVV	M9BW	●	●	●	○	○	—		
	Water resistant (2-color indicator)			3-wire (NPN)	M9NAV**	M9NA**	○	○	●	○	○	IC circuit					
				3-wire (PNP)	M9PAV**	M9PA**	○	○	●	○	○						
				2-wire	M9BAV**	M9BA**	○	○	●	○	○	—					

Model	MHS4-16D	MHS4-20D	MHS4-25D	MHS4-32D	MHS4-40D	MHS4-50D	MHS4-63D	
Cylinder bore size (mm)	16	20	25	32	40	50	63	
Fluid	Air							
Operating pressure (MPa)	0.2 to 0.6			0.1 to 0.6				
Ambient and fluid temperature (°C)	-10 to 60							
Repeatability (mm)	±0.01							
Max. operating frequency (c.p.m.)	120			60				
Lubrication	Not required							
Action	Double acting							
Effective gripping force (N) at 0.5 MPa ^{Note 1)}	External grip	10	19	31	55	88	140	251
	Internal grip	12	21	35	61	97	153	268
Opening/Closing stroke (mm)	4	4	6	8	8	12	16	
Weight (g)	66	110	154	300	390	590	1,095	

Note 1) Values for ø16 to ø25 are with gripping point L = 20 mm, for ø32 to ø63 with gripping point L = 30 mm. Refer to "Effective Gripping Force" data on pages 631 and 632 for the gripping force at each gripping position.

Dimensions

MHS4-16D to 25D

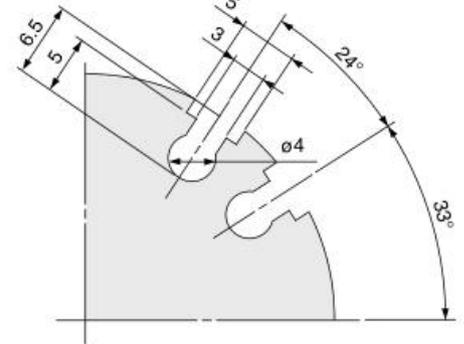
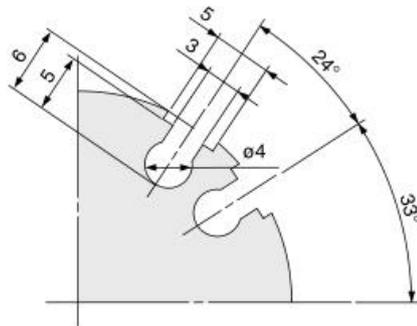
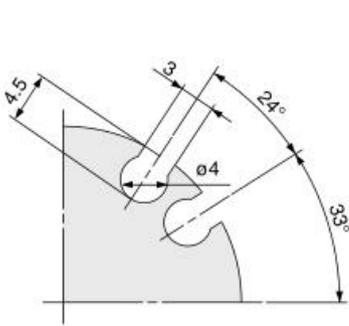


Auto switch mounting groove dimensions (2 locations)

MHS4-16D

MHS4-20D

MHS4-25D

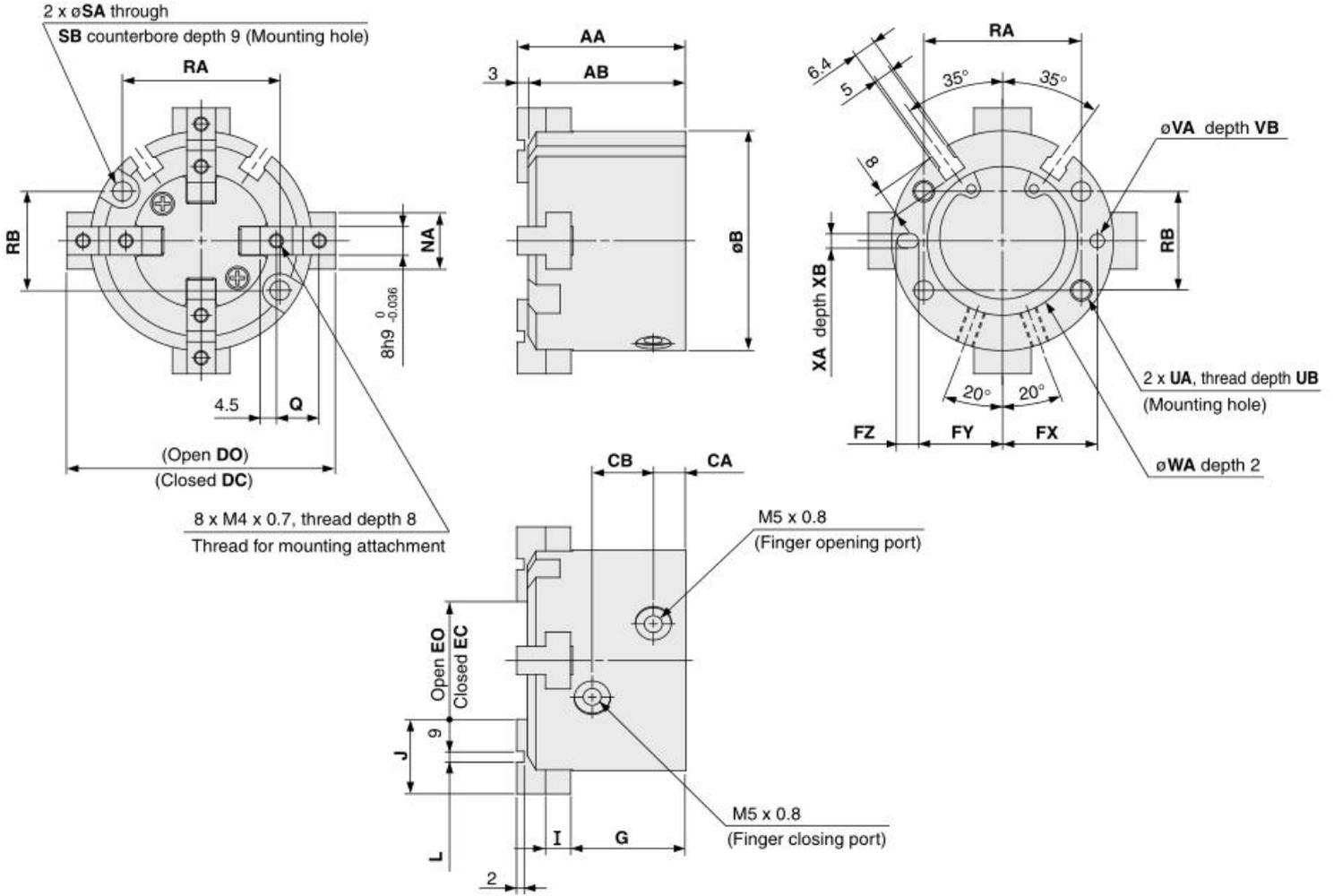


Model	AA	AB	B	CB	DC	DO	EC	EO	FX	FY	FZ	G	I	J	K	NA	NB	O	P	Q
MHS4-16D	35	32	30	11	33	37	13	17	12.5	11	3	25	4	10	4	8	5h9 ⁰ _{-0.030}	2	M3 x 0.5	6
MHS4-20D	38	35	36	13	39	43	15	19	14.5	13	3	27	5	12	5	10	6h9 ⁰ _{-0.030}	2.5	M5 x 0.8	7
MHS4-25D	40	37	42	15	48	54	20	26	17	14.5	5	28	5	14	6	12	6h9 ⁰ _{-0.030}	3	M5 x 0.8	8

Model	RA	RB	SC	TB	VA	VB	WA	XA	XB
MHS4-16D	18	16	8	5	2H9 ^{+0.025} ₀	2	17H9 ^{+0.043} ₀	2H9 ^{+0.025} ₀	2
MHS4-20D	24	18	9.5	6	2H9 ^{+0.025} ₀	2	21H9 ^{+0.052} ₀	2H9 ^{+0.025} ₀	2
MHS4-25D	26	22	10	6	3H9 ^{+0.025} ₀	3	26H9 ^{+0.052} ₀	3H9 ^{+0.025} ₀	3

Dimensions

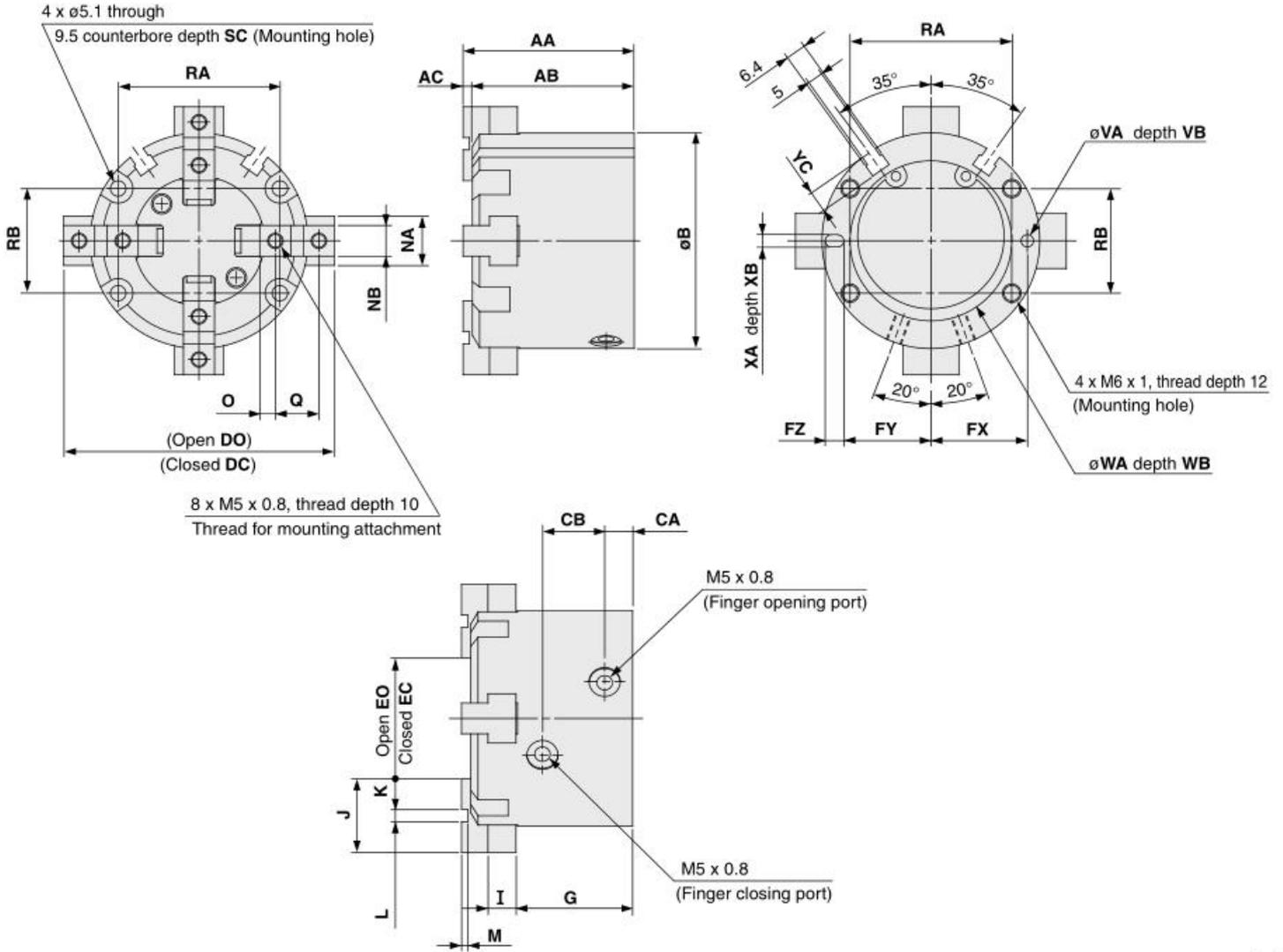
MHS4-32D/40D



(mm)

Model	AA	AB	B	CA	CB	DC	DO	EC	EO	FX	FY	FZ	G	I	J	L	NA	Q	RA	RB	SA
MHS4-32D	44	41	56	8	16	60	68	20	28	23	20.5	5	30.5	6	20	2H9 $\begin{matrix} +0.025 \\ 0 \end{matrix}$	14	11	38	25	4.5
MHS4-40D	47	44	62	9	17	66	74	24	32	26.5	23.5	6	32	7	21	3H9 $\begin{matrix} +0.025 \\ 0 \end{matrix}$	16	12	44	28	5.5
Model	SB	UA	UB	VA	VB	WA	XA	XB													
MHS4-32D	8	M5 x 0.8	10	3H9 $\begin{matrix} +0.025 \\ 0 \end{matrix}$	3	34H9 $\begin{matrix} +0.062 \\ 0 \end{matrix}$	3H9 $\begin{matrix} +0.025 \\ 0 \end{matrix}$	3													
MHS4-40D	9.5	M6 x 1	12	4H9 $\begin{matrix} +0.030 \\ 0 \end{matrix}$	4	42H9 $\begin{matrix} +0.062 \\ 0 \end{matrix}$	4H9 $\begin{matrix} +0.030 \\ 0 \end{matrix}$	4													

MHS4-50D/63D

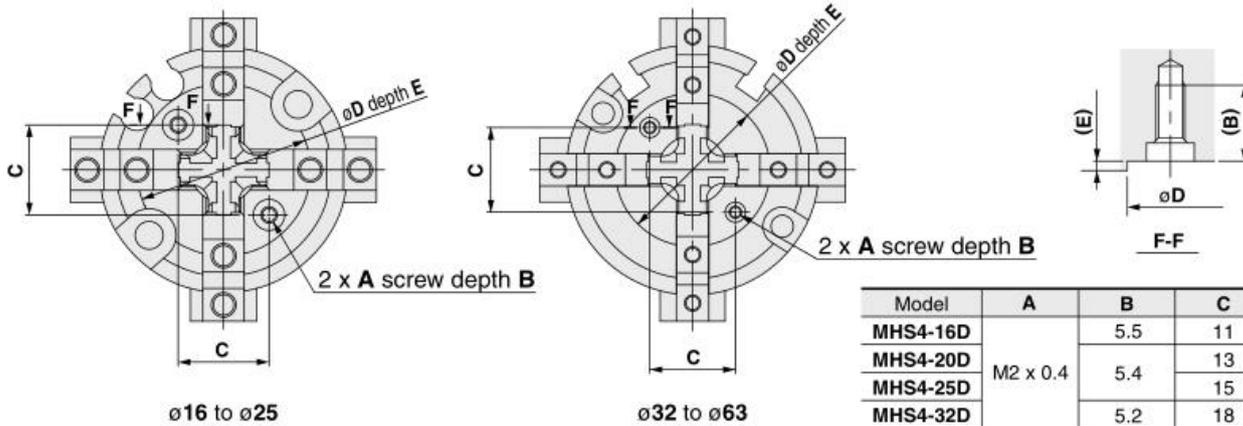


(mm)

Model	AA	AB	AC	B	CA	CB	DC	DO	EC	EO	FX	FY	FZ	G	I	J	K	L	M	NA	NB
MHS4-50D	55	52	3	70	9	20	74	86	26	38	31	28	6	37.5	9	24	10	4H9 ^{+0.030} ₀	2	18	10h9 ⁰ _{-0.036}
MHS4-63D	66	62	4	86	12	22	91	107	35	51	38	34.5	7	44	11	28	11	6H9 ^{+0.030} ₀	3	24	12h9 ⁰ _{-0.043}

Model	O	Q	RA	RB	SC	VA	VB	WA	WB	XA	XB	YC
MHS4-50D	5	14	52	34	12	4H9 ^{+0.030} ₀	4	52H9 ^{+0.074} ₀	2	4H9 ^{+0.030} ₀	4	7
MHS4-63D	5.5	17	66	38	14	5H9 ^{+0.030} ₀	5	65H9 ^{+0.074} ₀	2.5	5H9 ^{+0.030} ₀	5	7.5

MHS4 Series Detailed Dimensions of Mounting Portion of End Plate



Model	A	B	C	ϕD	E
MHS4-16D	M2 x 0.4	5.5	11	21 ^{+0.1} ₀	0.5
MHS4-20D		5.4	13	24 ^{+0.1} ₀	0.6
MHS4-25D			15	27 ^{+0.1} ₀	
MHS4-32D	M3 x 0.5	5.2	18	32 ^{+0.1} ₀	0.8
MHS4-40D		8	21	38 ^{+0.1} ₀	1
MHS4-50D			24	42 ^{+0.1} ₀	
MHS4-63D			32	54 ^{+0.1} ₀	



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