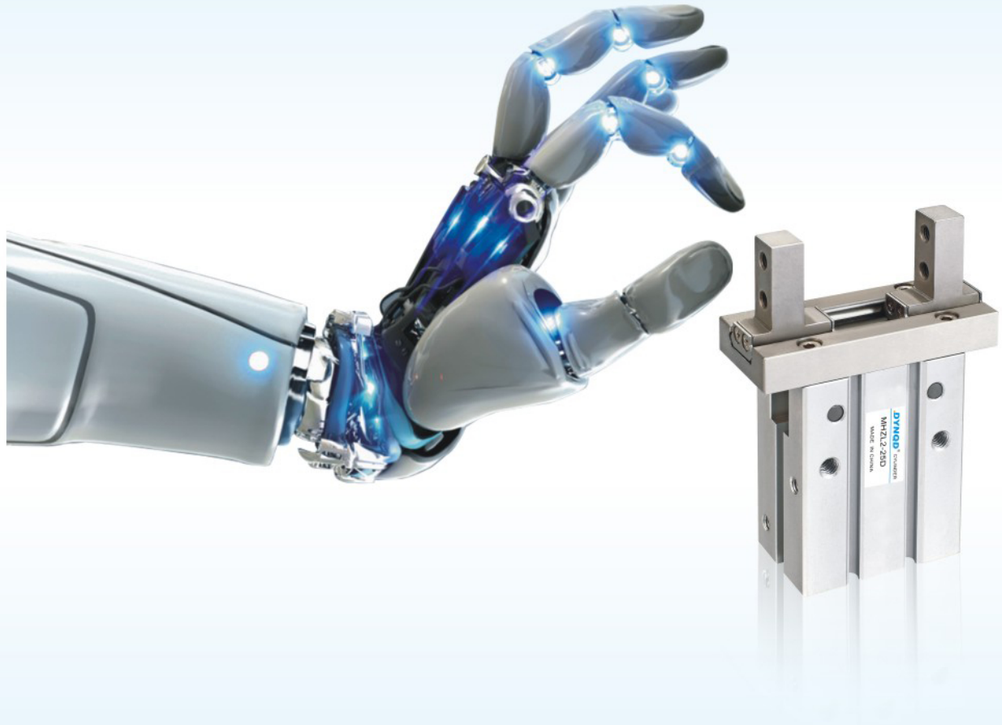
This manual is WENZHOU DIYANI PNEUMATIC CO.,LTD. Product overview. If the picture differs from the actual object, please refer to the actual product. If you need more products from our company, please contact me more marketing department.

0577-61755127

DYNQD®



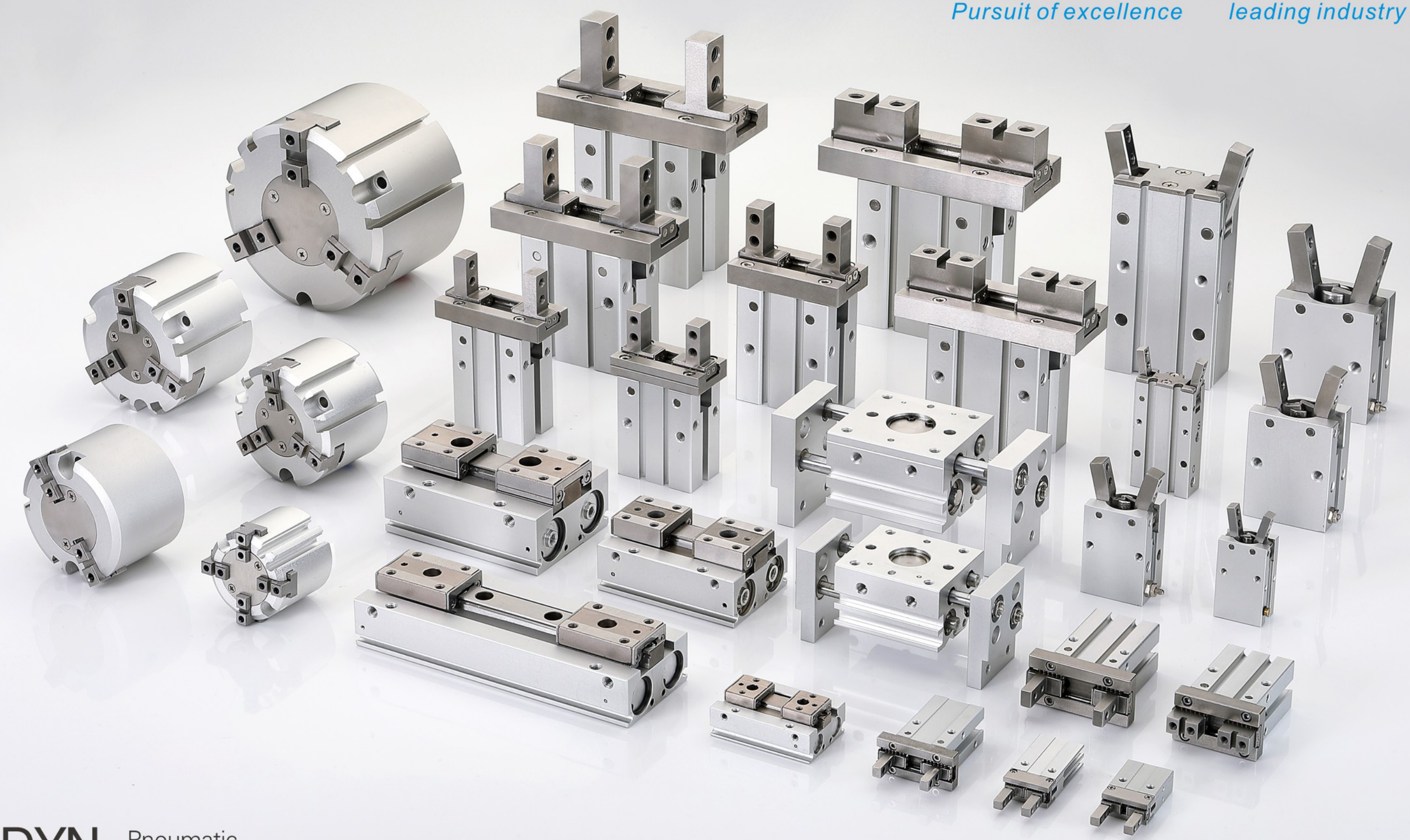
DYNQD®

WENZHOU DIYANI PNEUMATIC CO.,LTD.

WENZHOU DIYANI PNEUMATIC CO.,LTD.

DYNQD®

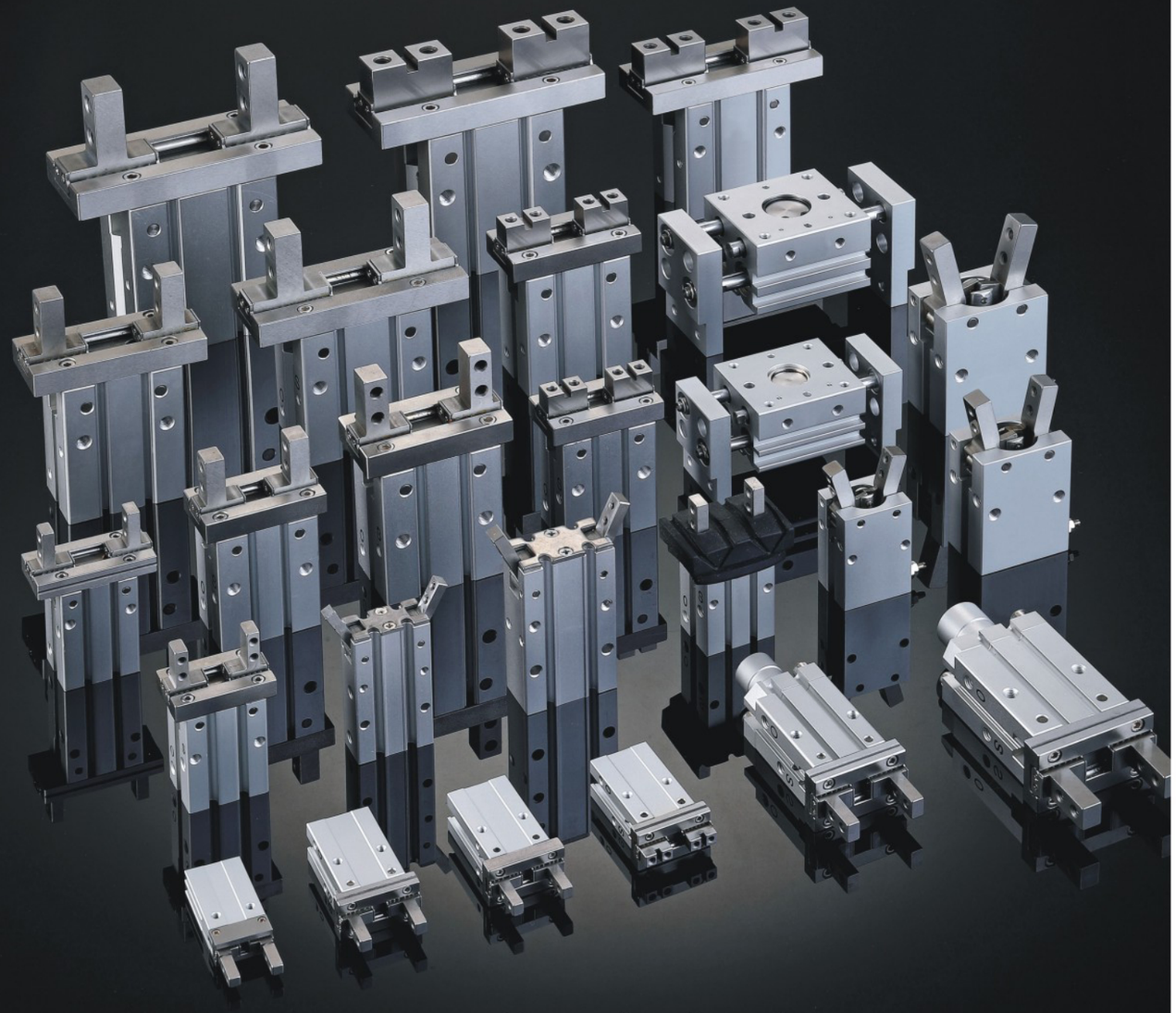
Pursuit of excellence leading industry level



DYN • Pneumatic

All the way from innovation
to excellence.

DYNQD®

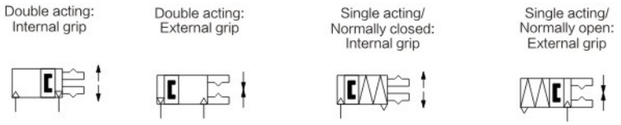


Be profession、focus,
So we are extraordinary

DYNQD®

Catalog index

Symbol



Standard Specification

Bore size(mm)		6	10	16	20	25	32	40
Operating pressure(MPa)	Double-acting	0.15~0.7	0.2~0.7	0.1~0.7				
	Single acting	0.3~0.7	0.35~0.7	0.25~0.7				
Ambient fluid temperature		-10~60℃						
Repeatability(mm)		±0.01					±0.02	
The highest frequency of use(c.p.m)		180					60	
Lubrication		Not required						
Action type		Double acting · Single acting						
Auto switch (optional)		Solid state auto switch						

Ordering code

Parallel openable

MHZ 2 – 16 D □ □ – M9PV □

Number of fingers

2	2One

Bore size

6	6mm
10	10mm
16	16mm
20	20mm
25	25mm
32	32mm
40	40mm

Operation mode

D	Double-acting
S	Single acting (normally open)
C	Single acting (normally closed)

Auto switch model

Nil	Without auto switch

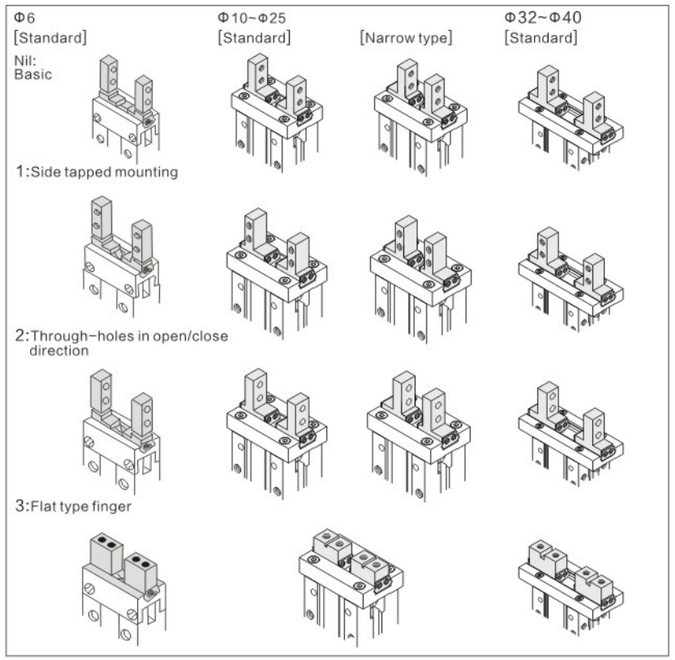
*Small (A, AJ) in the form of non-magnetic switch.

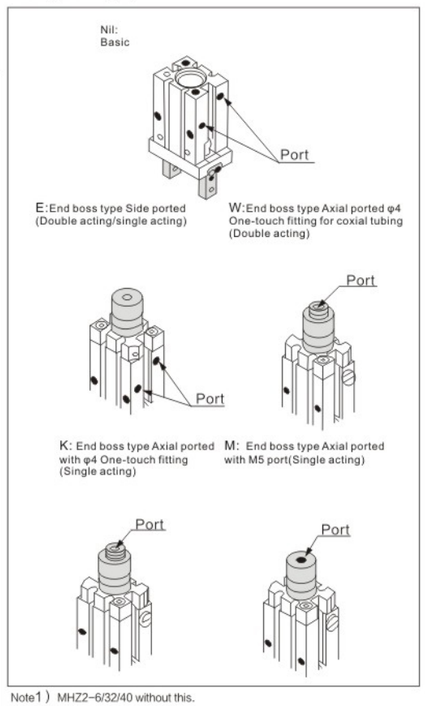
Number of auto switches

Nil	2One
S	1One
n	nOne

Gripper body option

Finger option



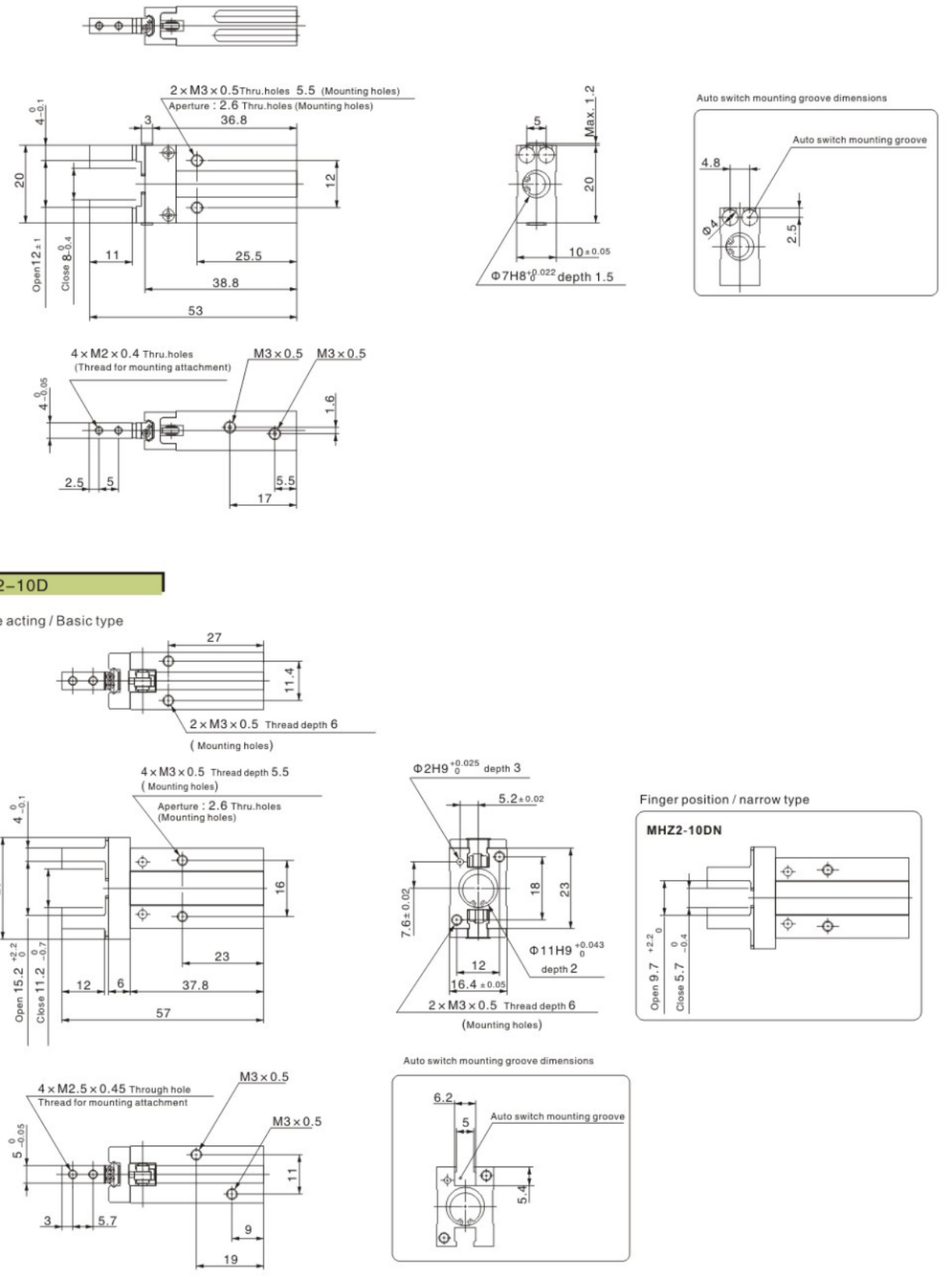


Note1) MHZ2-6/32/40 without this.

Dimensions (mm)

MHZ2-6D

Double acting / Basic type



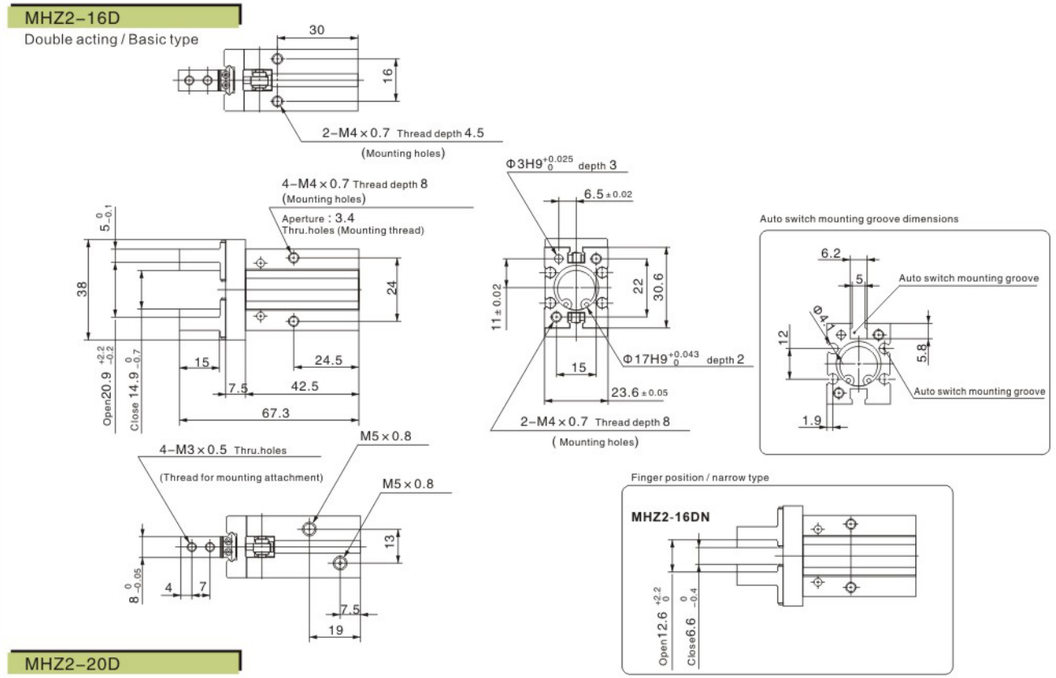
MHZ2-10D

Double acting / Basic type

Dimensions (mm)

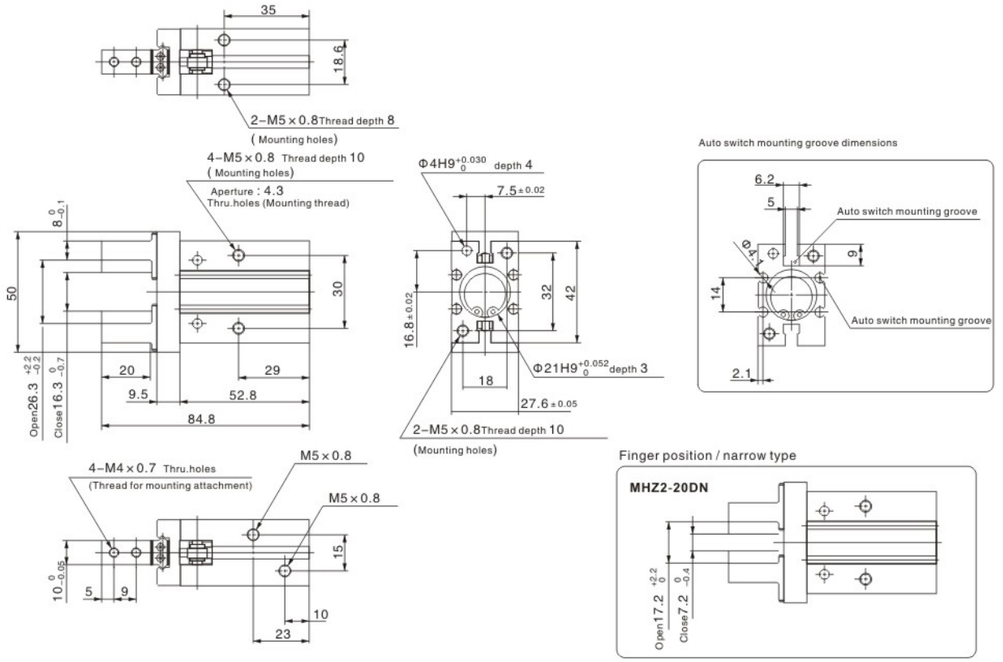
MHZ2-16D

Double acting / Basic type



MHZ2-20D

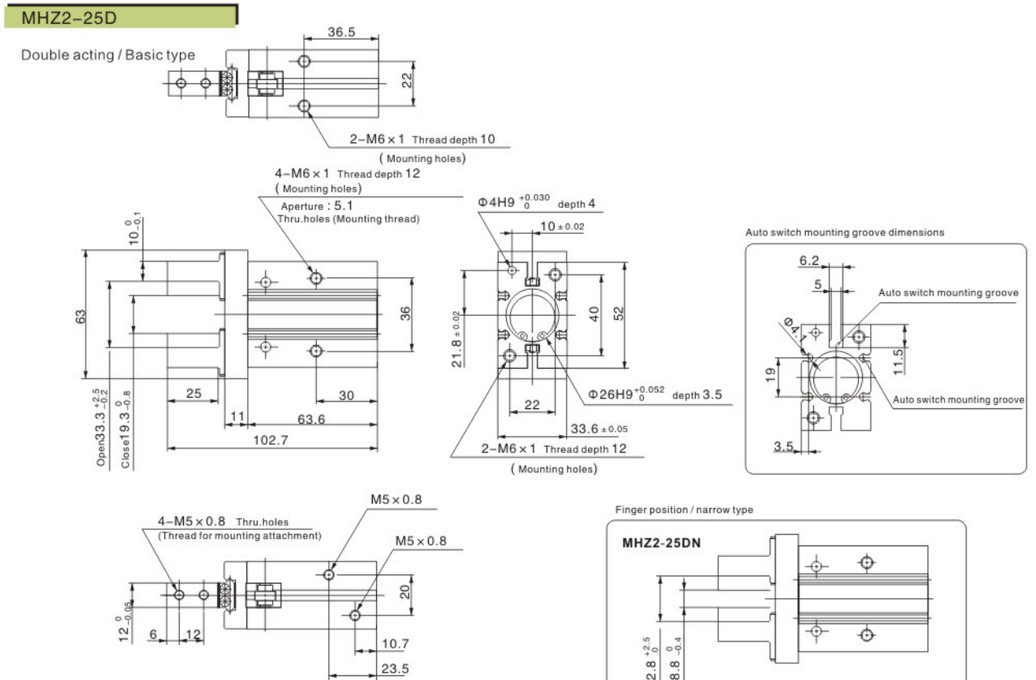
Double acting / Basic type



Dimensions (mm)

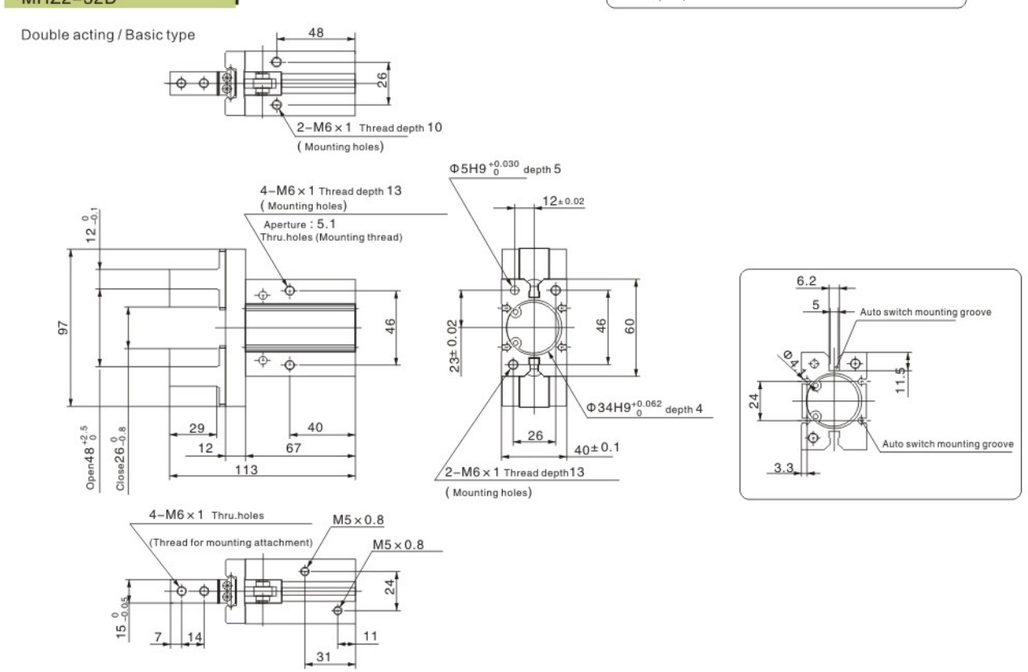
MHZ2-25D

Double acting / Basic type



MHZ2-32D

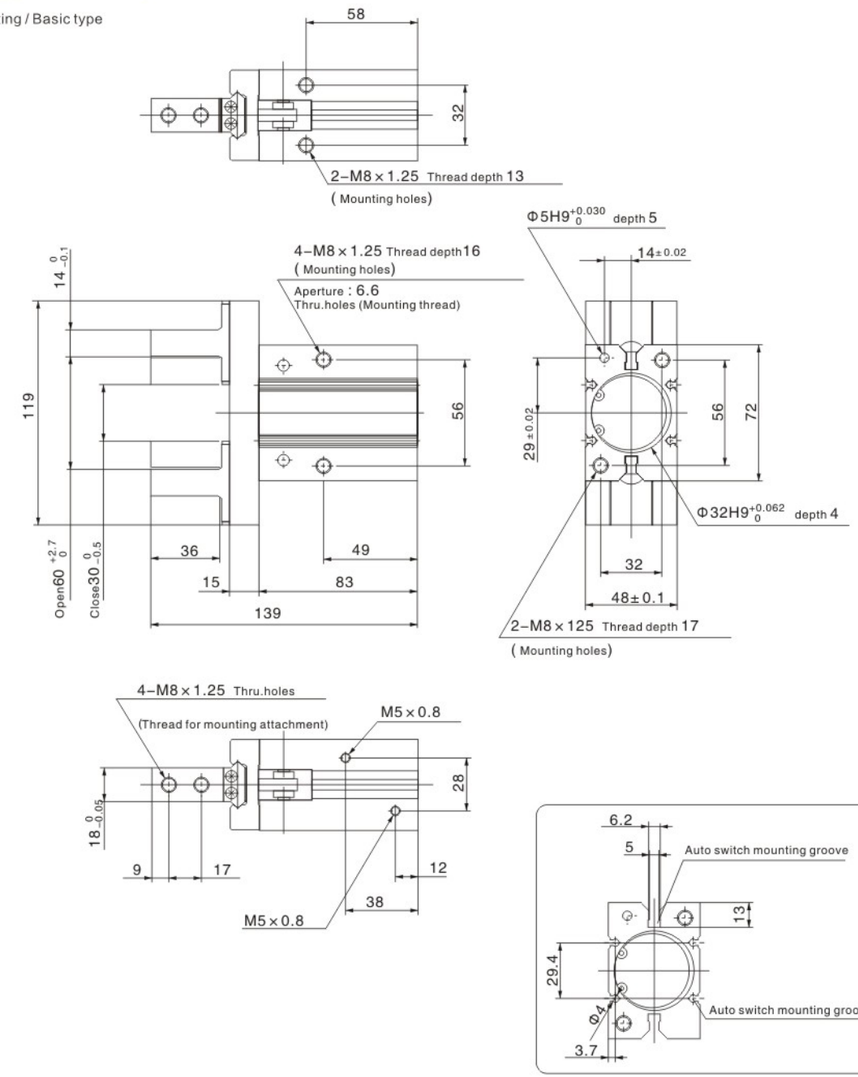
Double acting / Basic type



Dimensions (mm)

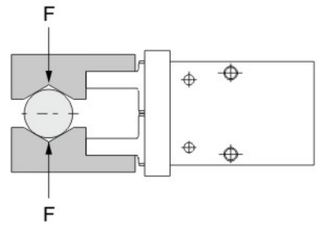
MHZ2-40D

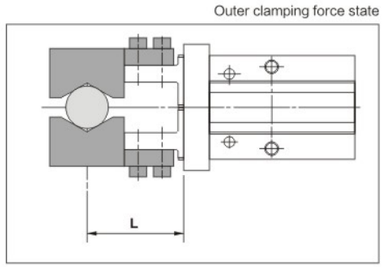
Double acting / Basic type



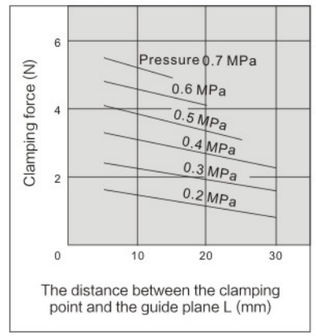
Different pressure corresponding to the performance parameters

As shown in the figure below, when the fingers and accessories are in complete contact with the workpiece, the finger grip force and distance L should refer to the right figure.

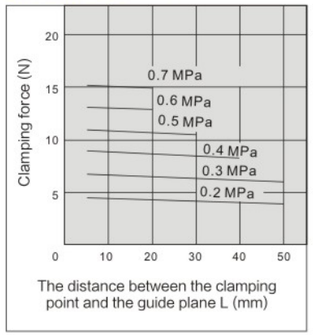




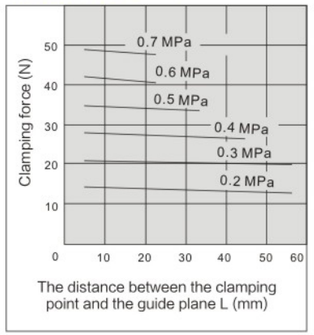
MHZ2-6D



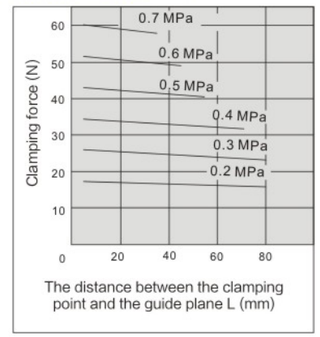
MHZ2-10D



MHZ2-16D



MHZ2-20D



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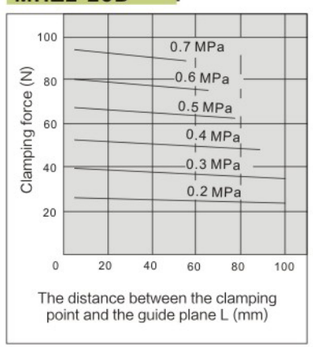

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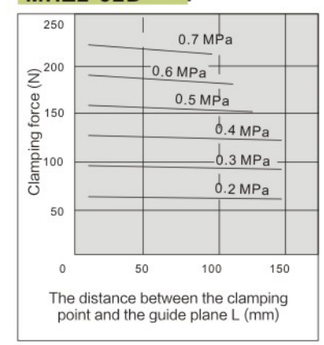
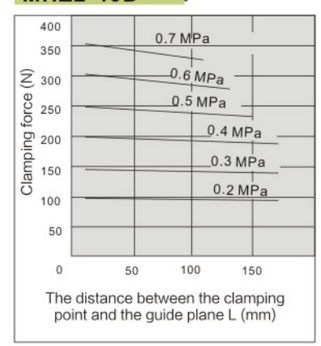
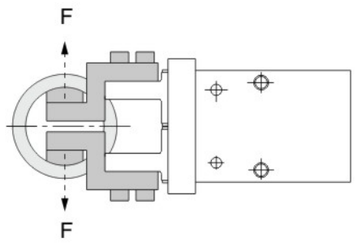


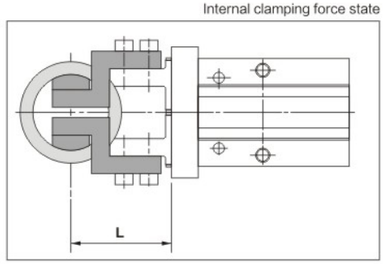
MHZ2-40D



Different pressure corresponding to the performance parameters

As shown in the figure below, when the fingers and accessories are in complete contact with the workpiece, the finger grip force and distance L should refer to the right figure.





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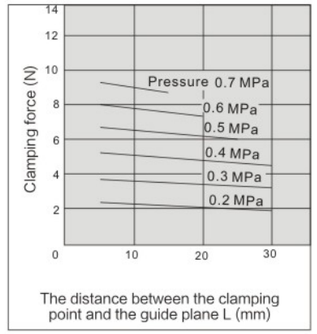

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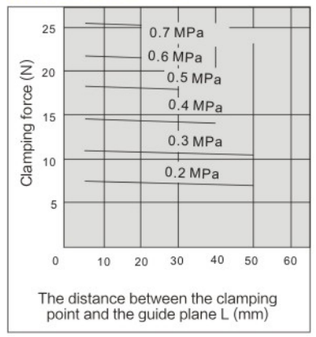

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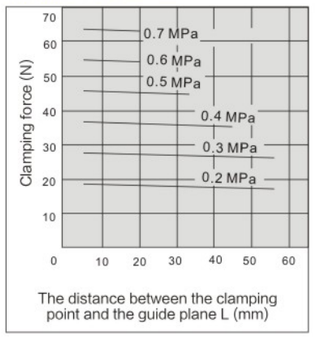

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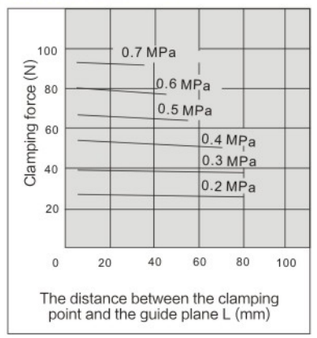

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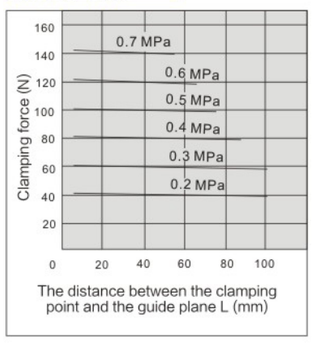

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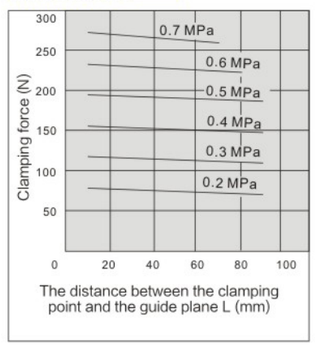

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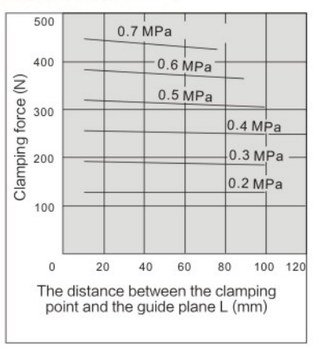
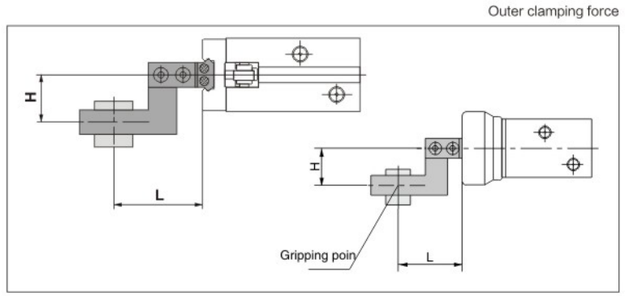


Different pressure corresponding to the performance parameters

When the gripper is installed, the corresponding H and L values should conform to the right curve. If this range is exceeded, the life of the cylinder will be affected.



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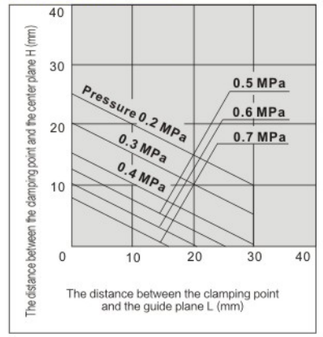

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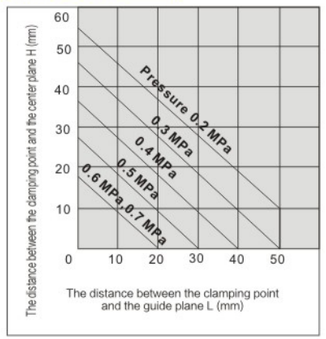

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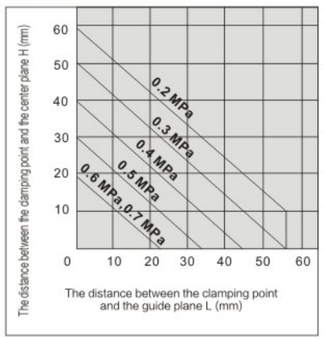

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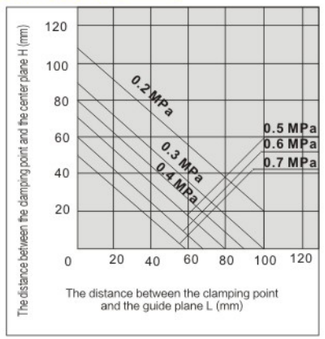

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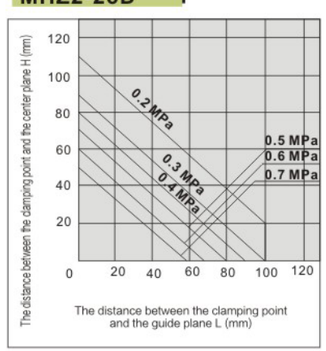

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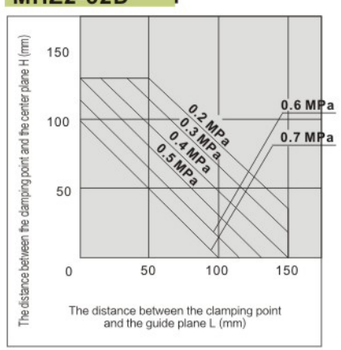

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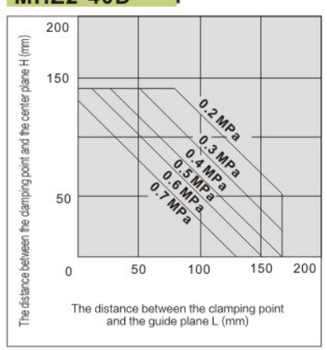
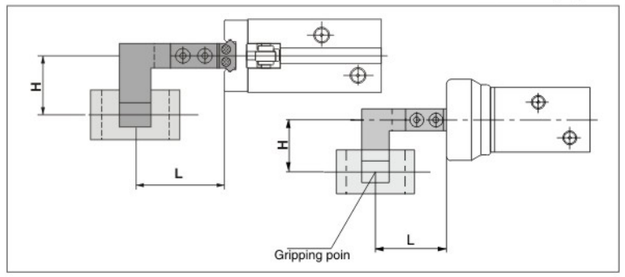


Different pressure corresponding to the performance parameters

When the gripper is installed, the corresponding H and L values should conform to the right curve. If this range is exceeded, the life of the cylinder will be affected.

Internal clamping force



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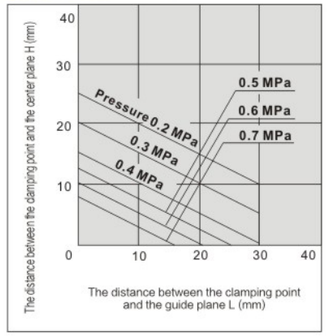

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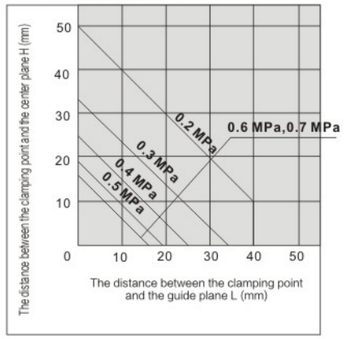

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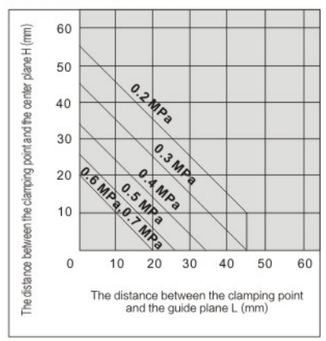

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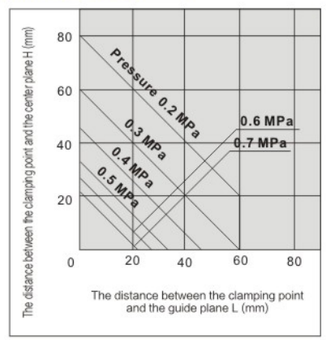
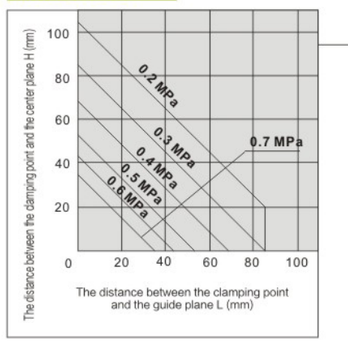


MHZ2-25D



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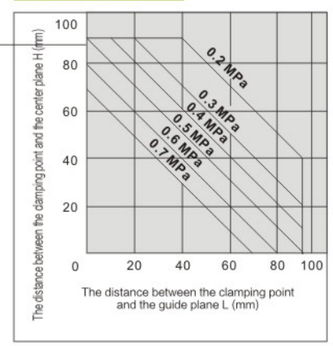

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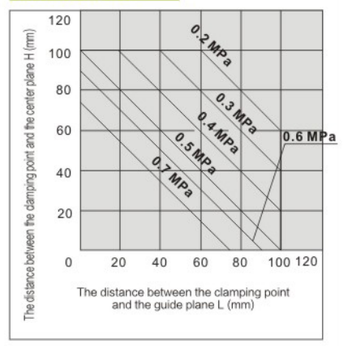


Symbol

Standard Specification

Bore size(mm)		10	16	20	25
Fluid		Air			
Operating pressure(MPa)	Double-acting	0.2~0.7	0.1~0.7		
	Single acting	0.35~0.7	0.25~0.7		
Ambient fluid temperature		-10~60℃			
Repeatability(mm)		±0.01			
The highest frequency of use(c.p.m)		120			
Lubrication		Not required			
Action type		Double acting · Single acting			
Auto switch (optional)		Solid state auto switch			

Ordering code

Parallel openable MHZ L 2 – 16 D □ □ □ – M9PV □

Number of fingers

2	2One

Operation mode

D	Double-acting
S	Single acting (normally open)
C	Single acting (normally closed)

Auto switch model

Nil	Without auto switch

Number of auto switches

Nil	2One
S	1One
n	nOne

Dust Cover Material

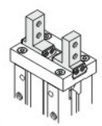
Nil	CR
F	FKM
S	Si

Bore size

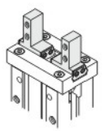
10	10mm
16	16mm
20	20mm
25	25mm

Finger option

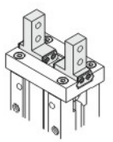
[Standard]
Nil: Basic



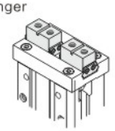
1:Side tapped mounting



2: Through-holes in open/close direction



3:Flat type finger

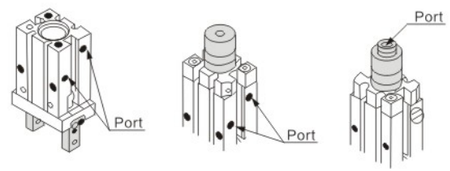


Gripper body option

Nil: Basic

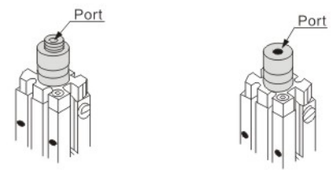
E: End boss type Side ported (Double acting/single acting)

W: End boss type Axial ported φ4 One-touch fitting for coxial tubing (Double acting)



K:End boss type Axial ported with φ4 One-touch fitting (Single acting)

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

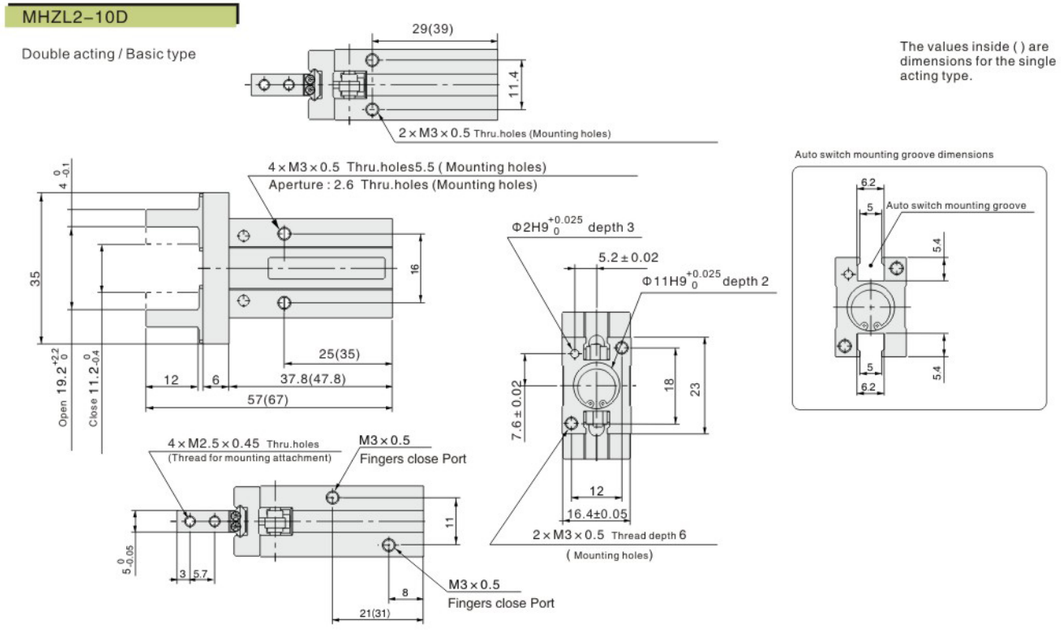


Dimensions (mm)

MHZL2-10D

Double acting / Basic type

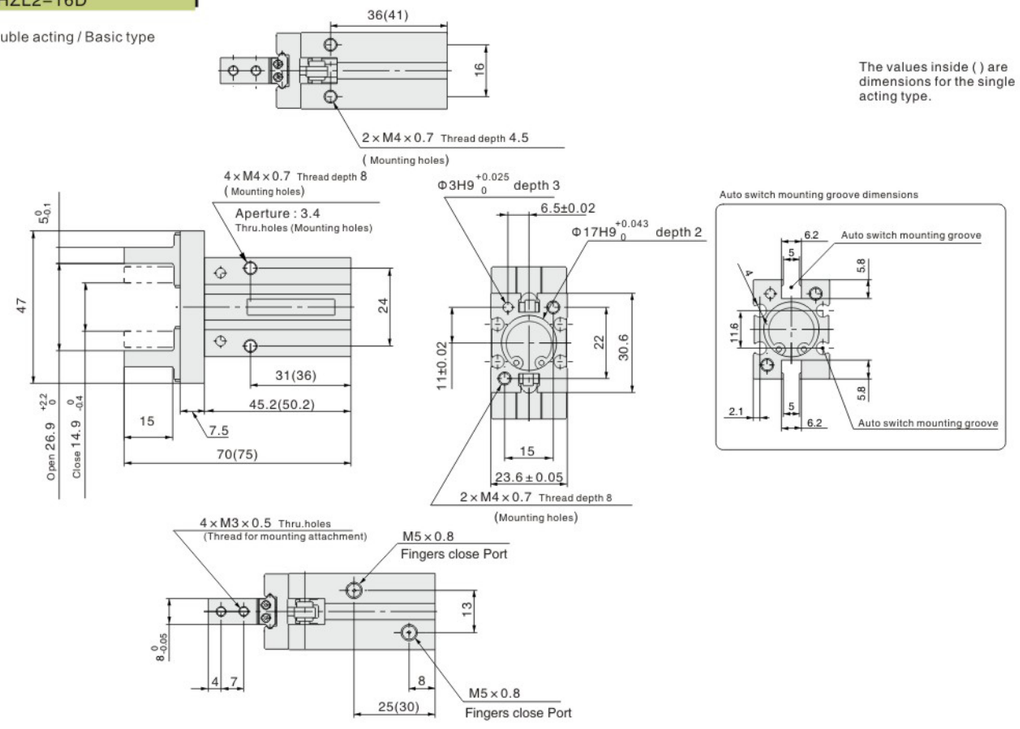
The values inside ( ) are dimensions for the single acting type.



MHZL2-16D

Double acting / Basic type

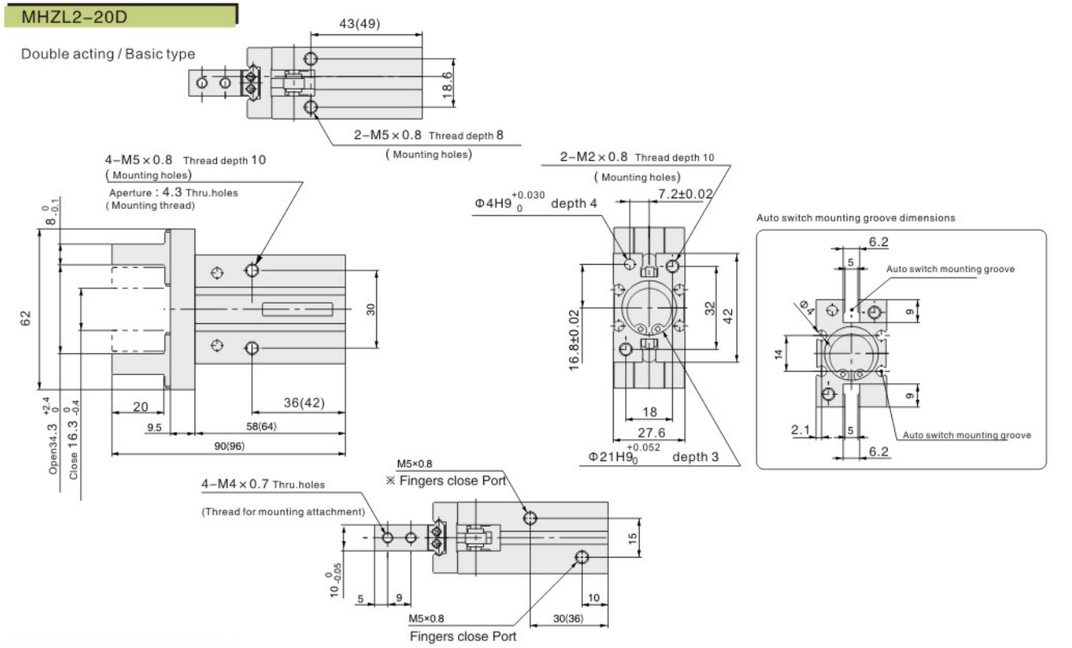
The values inside ( ) are dimensions for the single acting type.



Dimensions (mm)

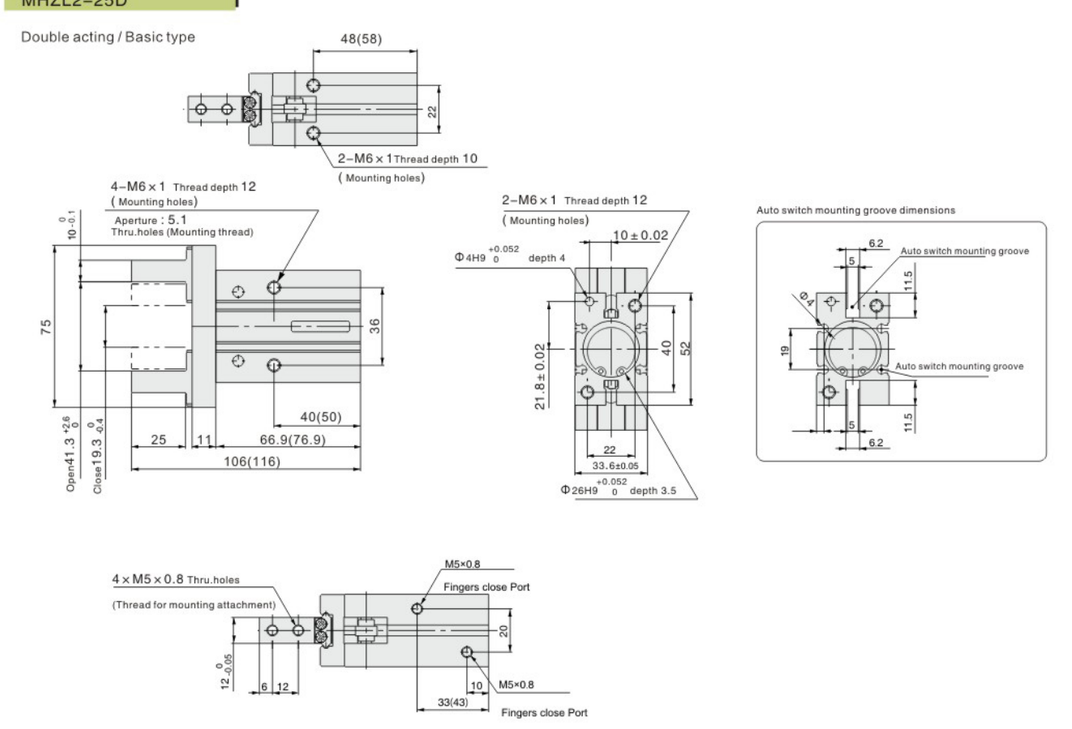
MHZL2-20D

Double acting / Basic type

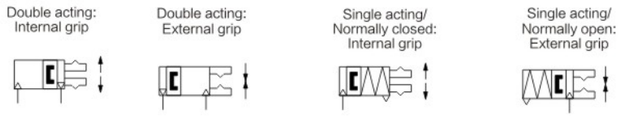


MHZL2-25D

Double acting / Basic type



Symbol



Standard Specification

Bore size(mm)		6	10	16	20	25
Fluid		Air				
Operating pressure(MPa)	Double-acting	0.15~0.7	0.2~0.7	0.1~0.7		
	Single acting	0.3~0.7	0.35~0.7	0.25~0.7		
Ambient fluid temperature		-10~60℃				
Repeatability(mm)		±0.01				
The highest frequency of use(c.p.m)		180				
Lubrication		Not required				
Action type		Double acting · Single acting				
Auto switch (optional)		Solid state auto switch(3-wire, 2-wire)				

Ordering code

MHZJ 2 – 16 D □ □ – M9PV □

Number of auto switches

Nil	2One
S	1One
n	nOne

Auto switch model

Nil	Without auto switch

Number of fingers

2	2One

Bore size

6	6mm
10	10mm
16	16mm
20	20mm
25	25mm

Dust Cover Material

Nil	(CR)
F	(FKM)
S	(Si)

Operation mode

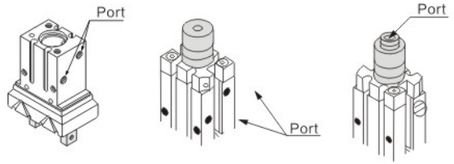
D	Double-acting
S	Single acting (normally open)
C	Single acting (normally closed)

Gripper body option

Nil: Basic

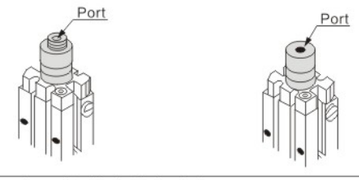
E: End boss type Side ported (Double acting/single acting)

W: End boss type Axial ported φ4 One-touch fitting for coxial tubing (Double acting)



K: End boss type Axial ported with φ4 One-touch fitting (Single acting)

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

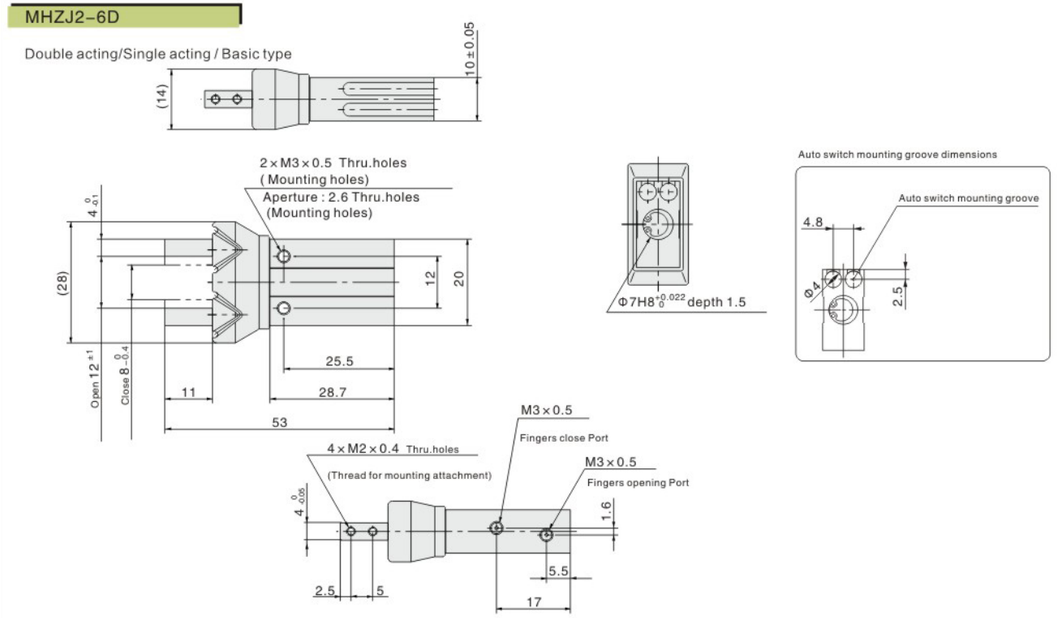


※Φ 6 is only applicable to the basic type.

Dimensions (mm)

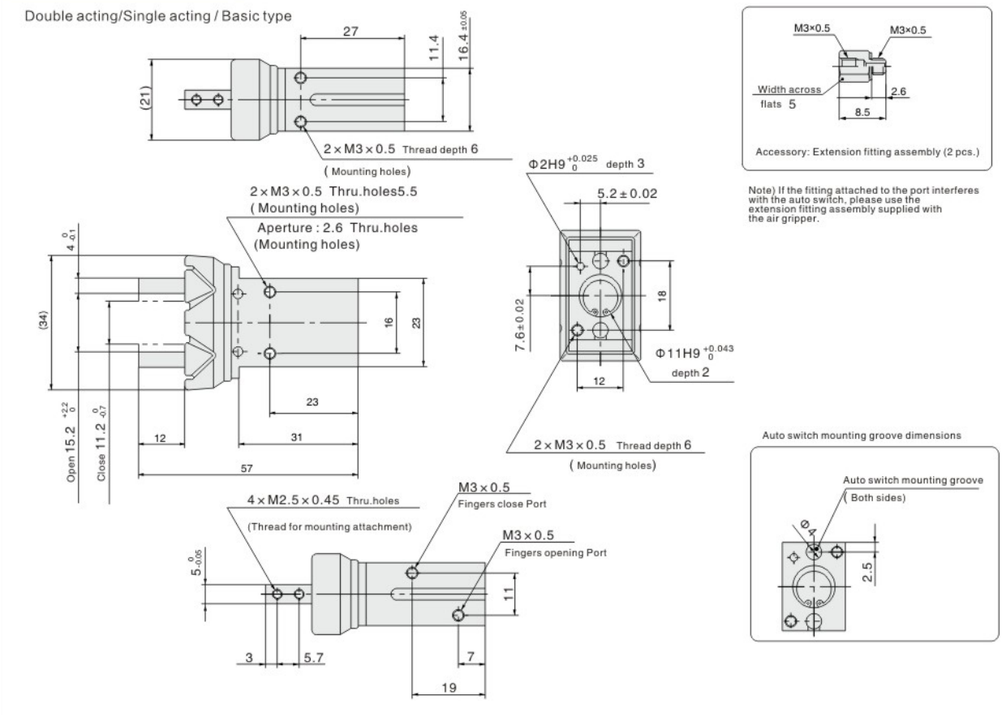
MHZJ2-6D

Double acting/Single acting / Basic type



MHZJ2-10D

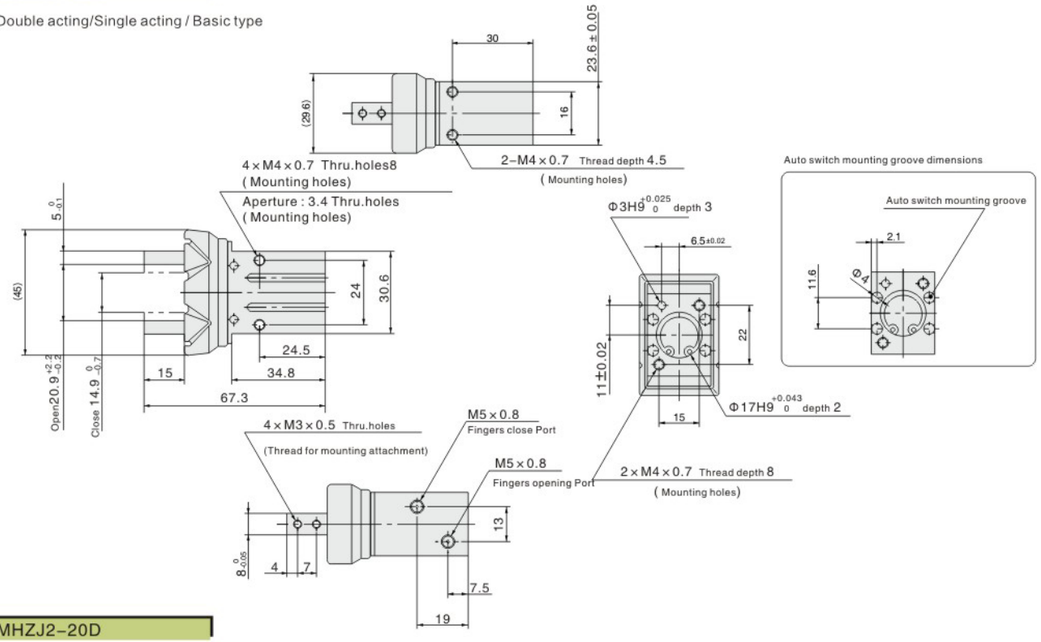
Double acting/Single acting / Basic type



Dimensions (mm)

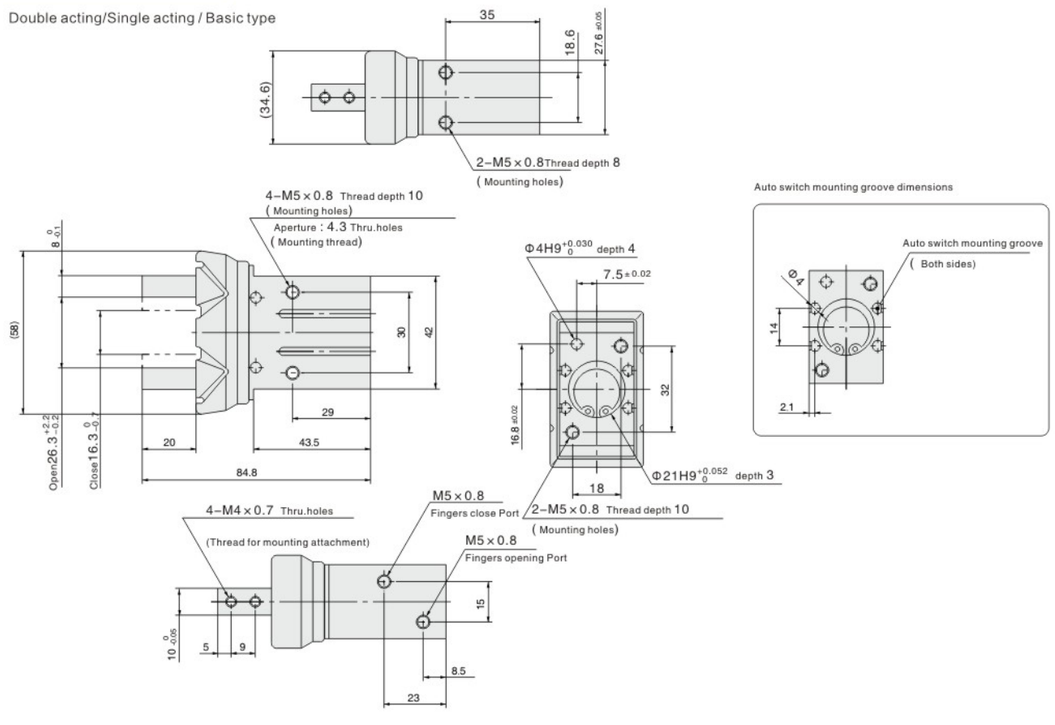
MHZJ2-16D

Double acting/Single acting / Basic type



MHZJ2-20D

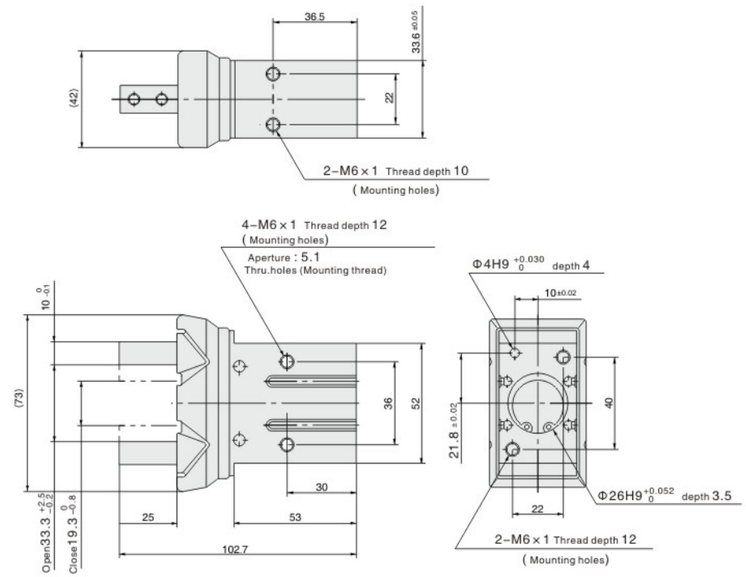
Double acting/Single acting / Basic type

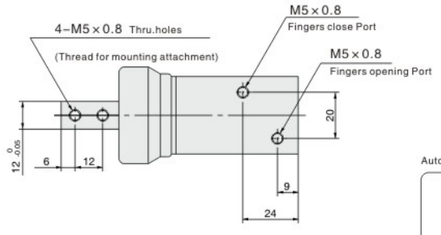


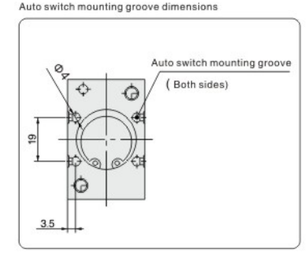
Dimensions (mm)

MHZJ2-25D

Double acting/Single acting / Basic type







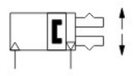
Standard Specification

Bore size(mm)		8	12	16	20
Fluid		Air			
Operating Pressure (MPa)		0.15~0.7	0.1~0.7		
Ambient fluid temperature		−10~60℃(No freezing)			
Repeatability		Note1) ±0.05mm			
Max.frequency of use	Short stroke	120c.p.m.			
	Medium stroke	120c.p.m.			
	Long stroke	60c.p.m.			
Oil supply		Non−lube			
Action type		Double acting			
Magnetic switch (optional)		Non−contact magnetic switch (3−wire, 2−wire)			

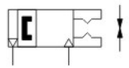
Note 1) It is the value of the finger that does not have a bias load state.
When the bias load is applied to the finger, the maximum value is ±0.15 mm due to the backlash of the rack gear.

Symbol

Double acting. Inner diameter clamping



Double acting. IOD clamping



Ordering code

MHF 2 − 12 D □ □ − M9BW □

Hand index

2	2claw

Broe(mm)

8	8
12	12
16	16
20	20

Mode of action

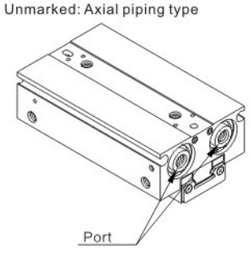
D	Double-acting

Stroke

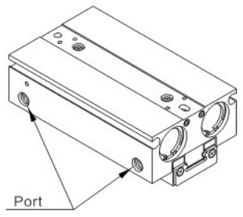
Nil	Short stroke
1	Medium stroke
2	Long stroke

Subject option

Unmarked: Axial piping type



R: Side piping type



Number of auto switches

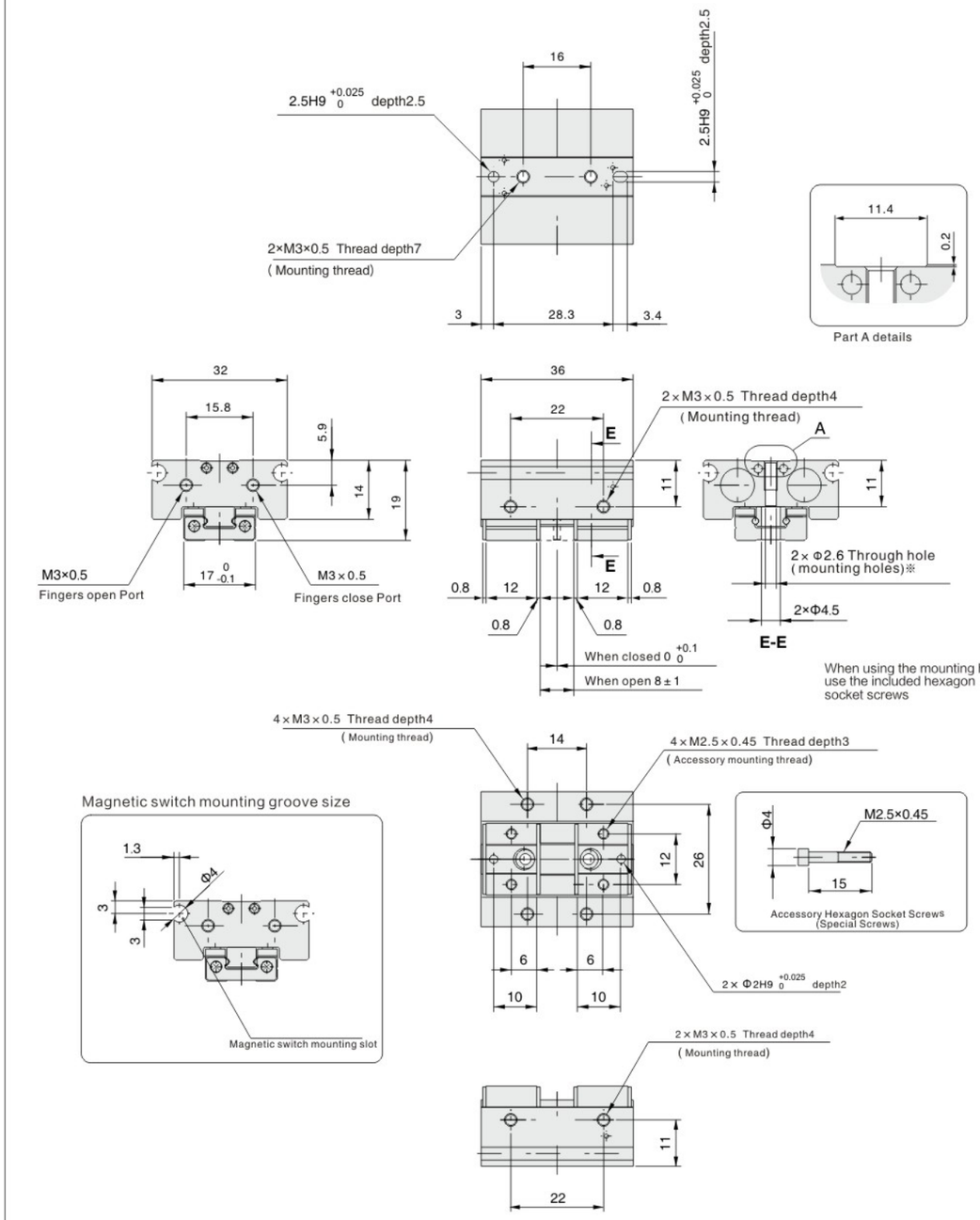
Nil	2
S	1

Auto Switch Model

Nil	Without auto switch

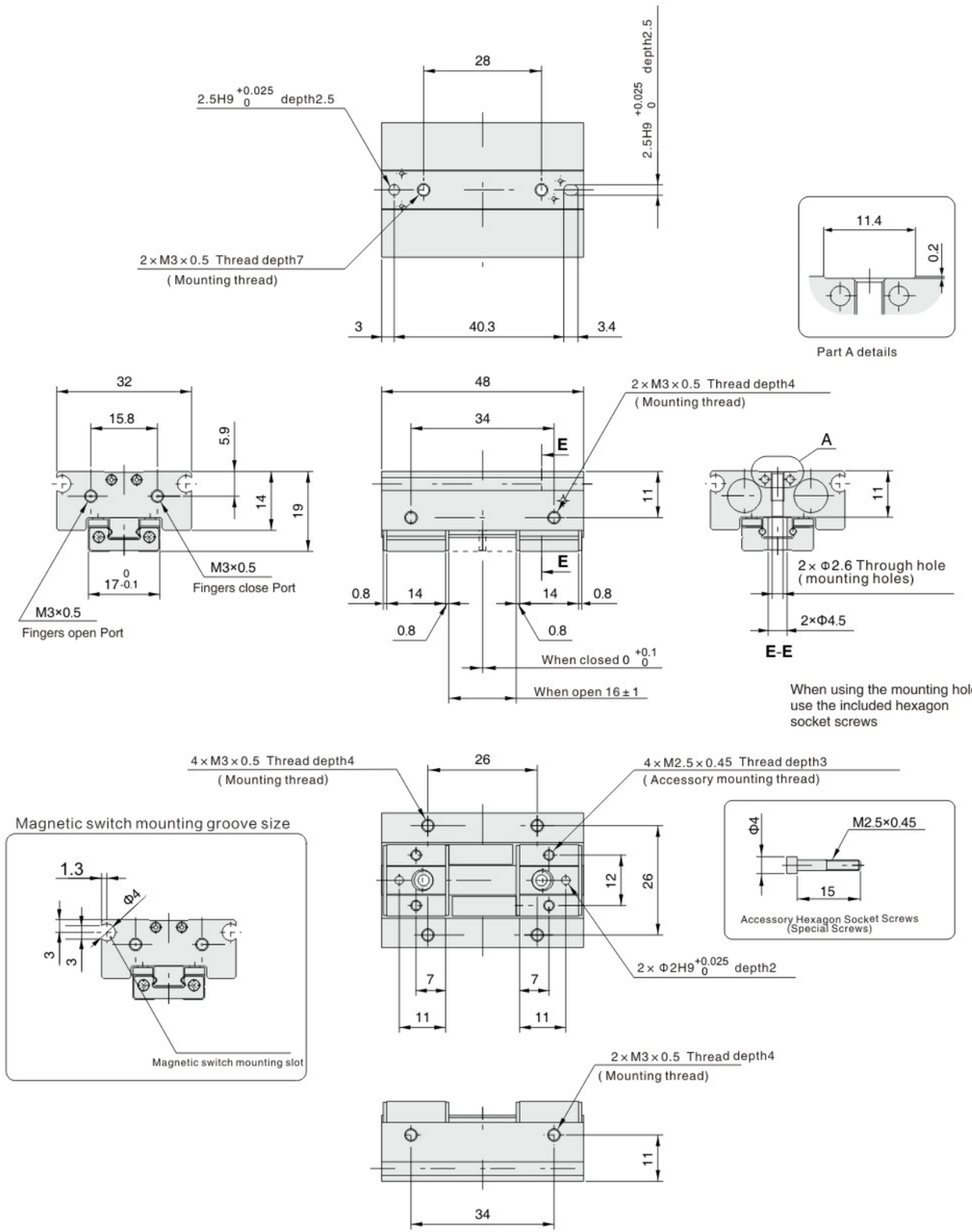
Dimensions (mm)

MHF2-8D



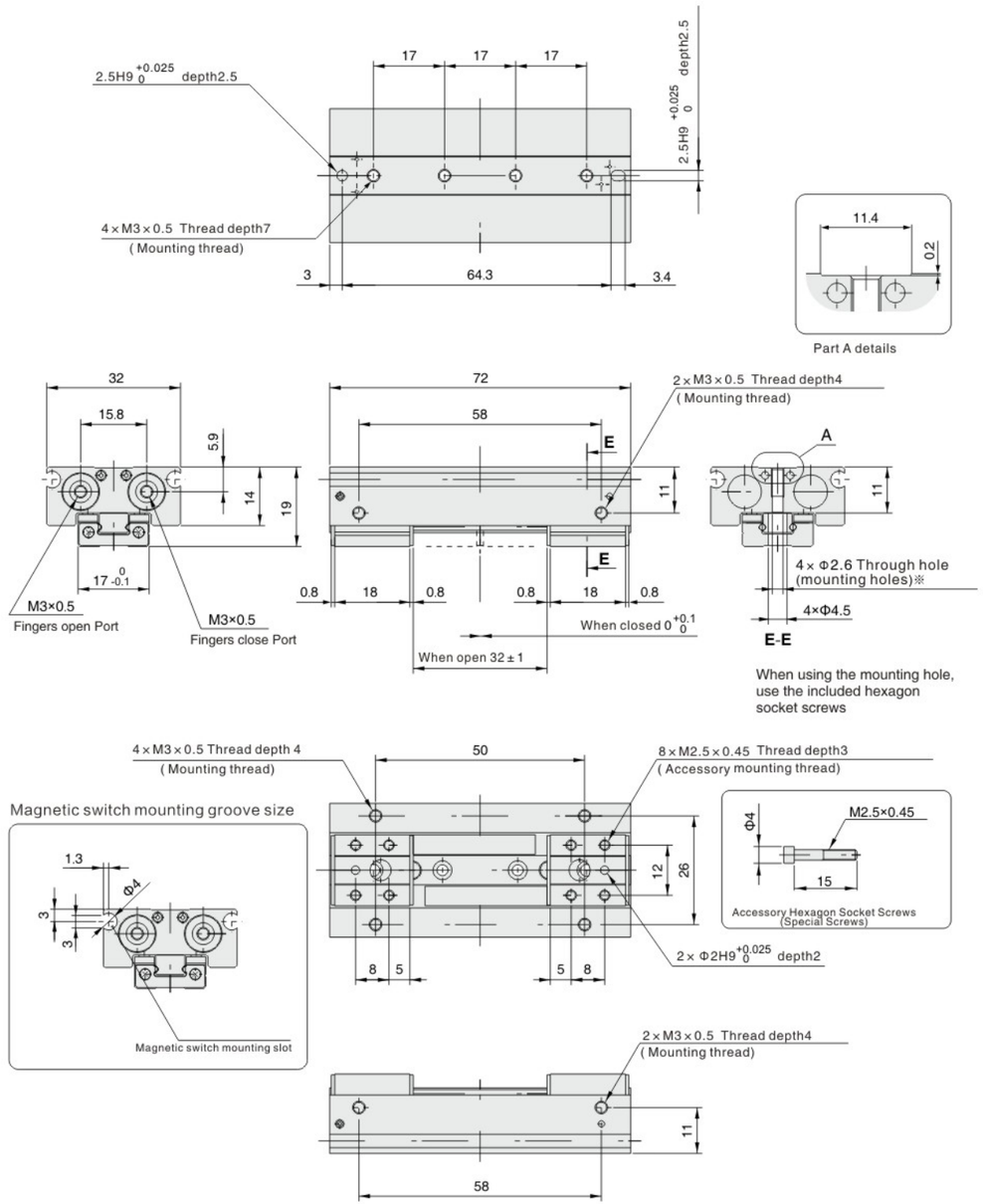
Dimensions (mm)

MHF2-8D1



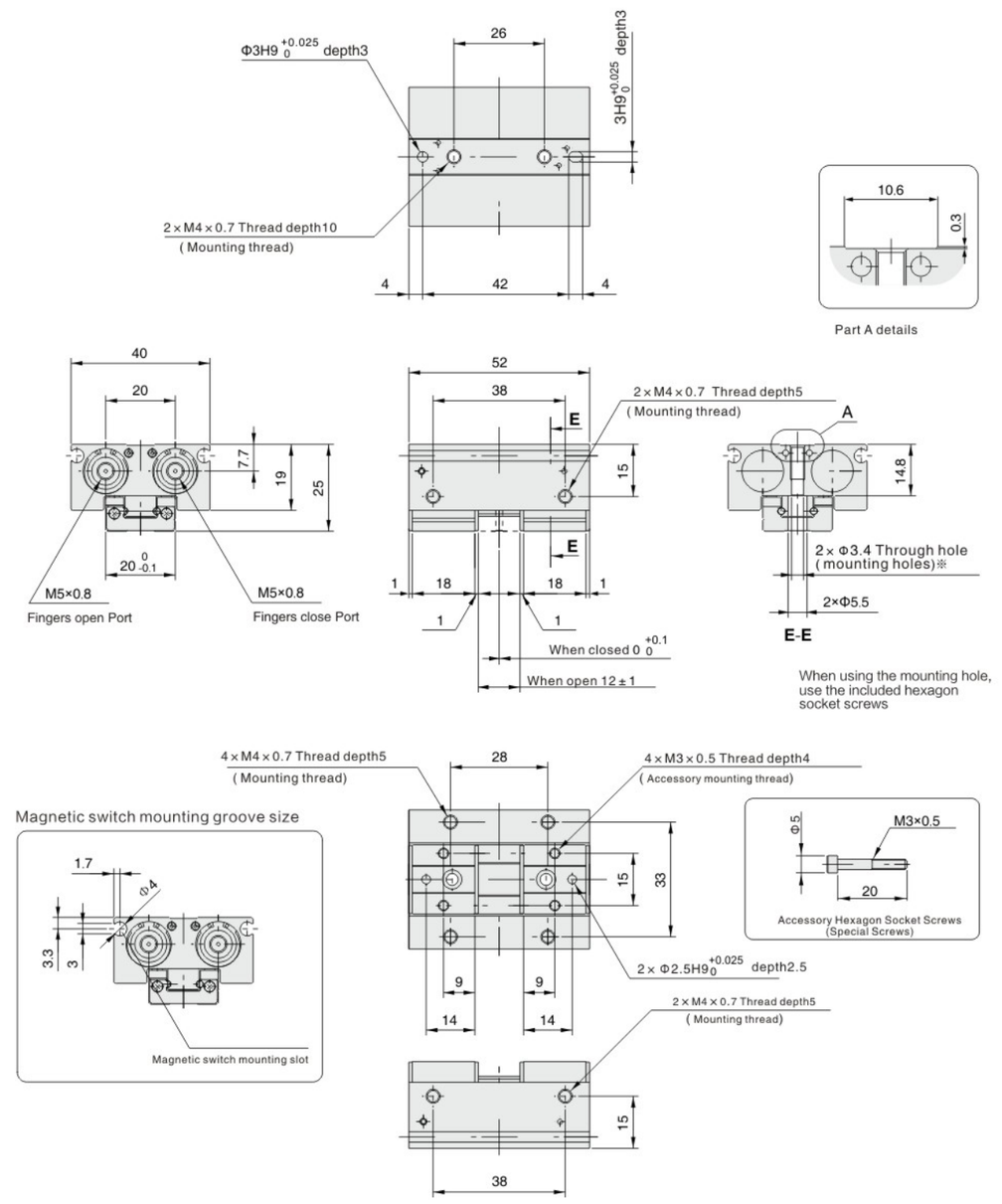
Dimensions (mm)

MHF2-8D2



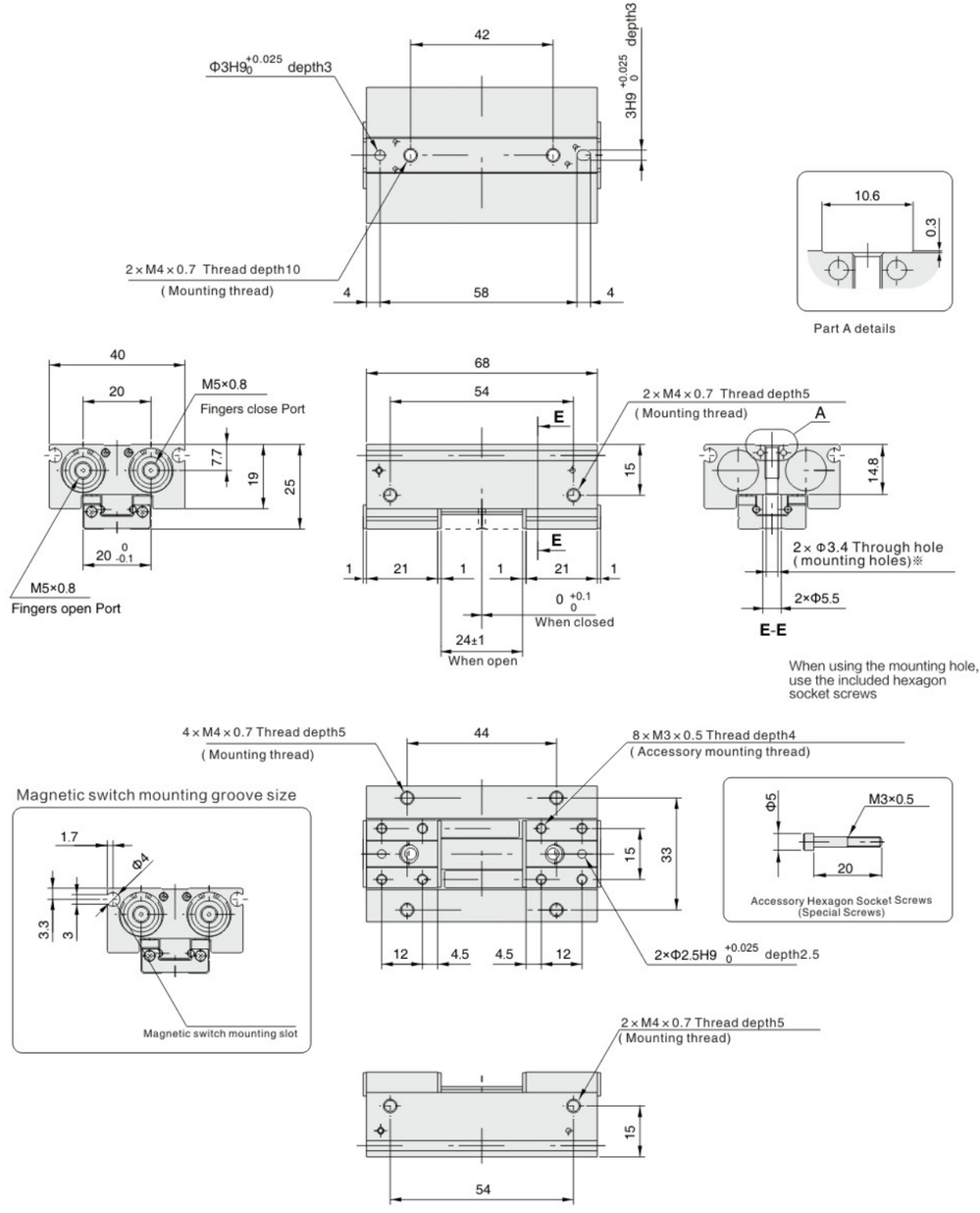
Dimensions (mm)

MHF2-12D



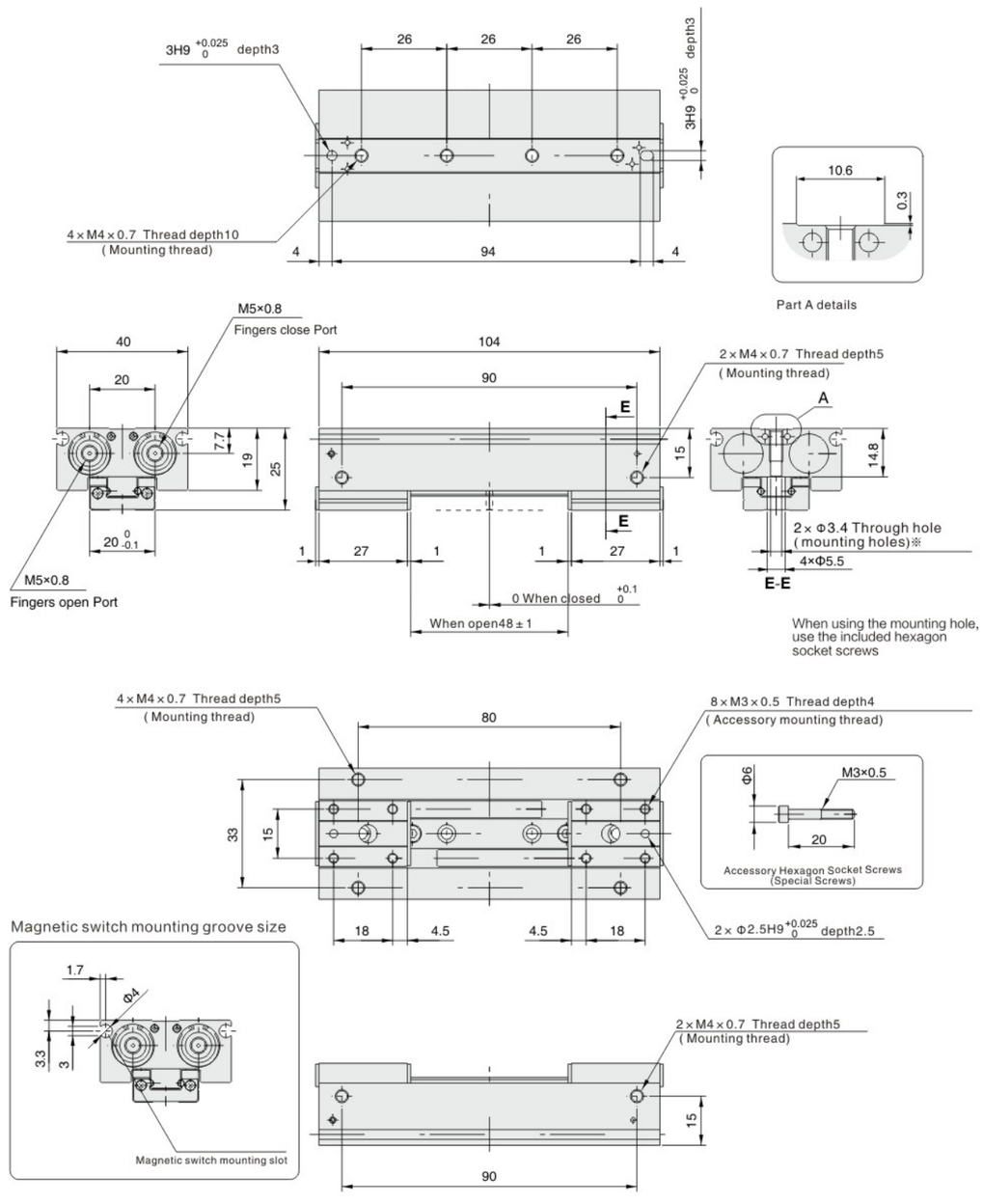
Dimensions (mm)

MHF2-12D1



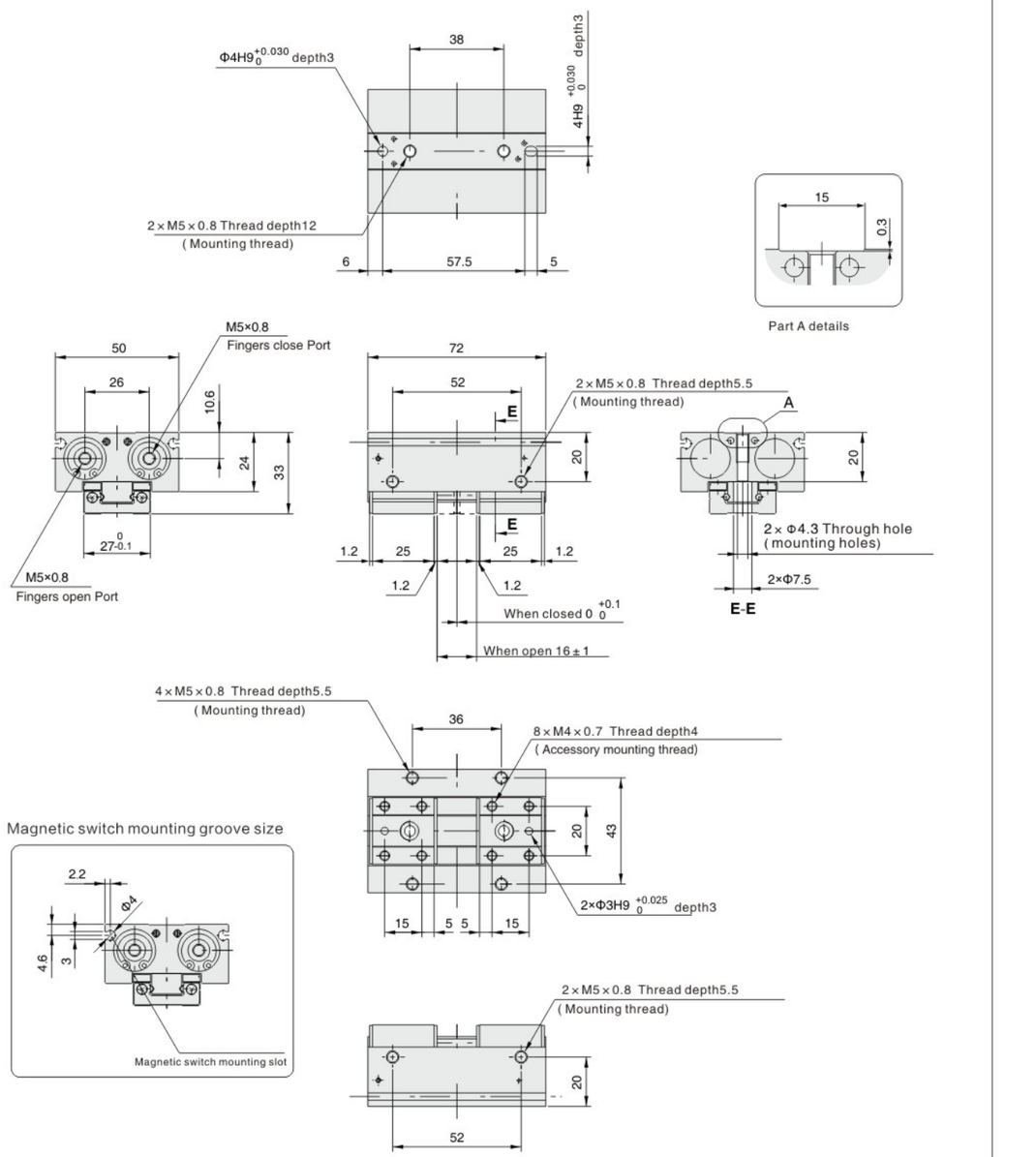
Dimensions (mm)

MHF2-12D2



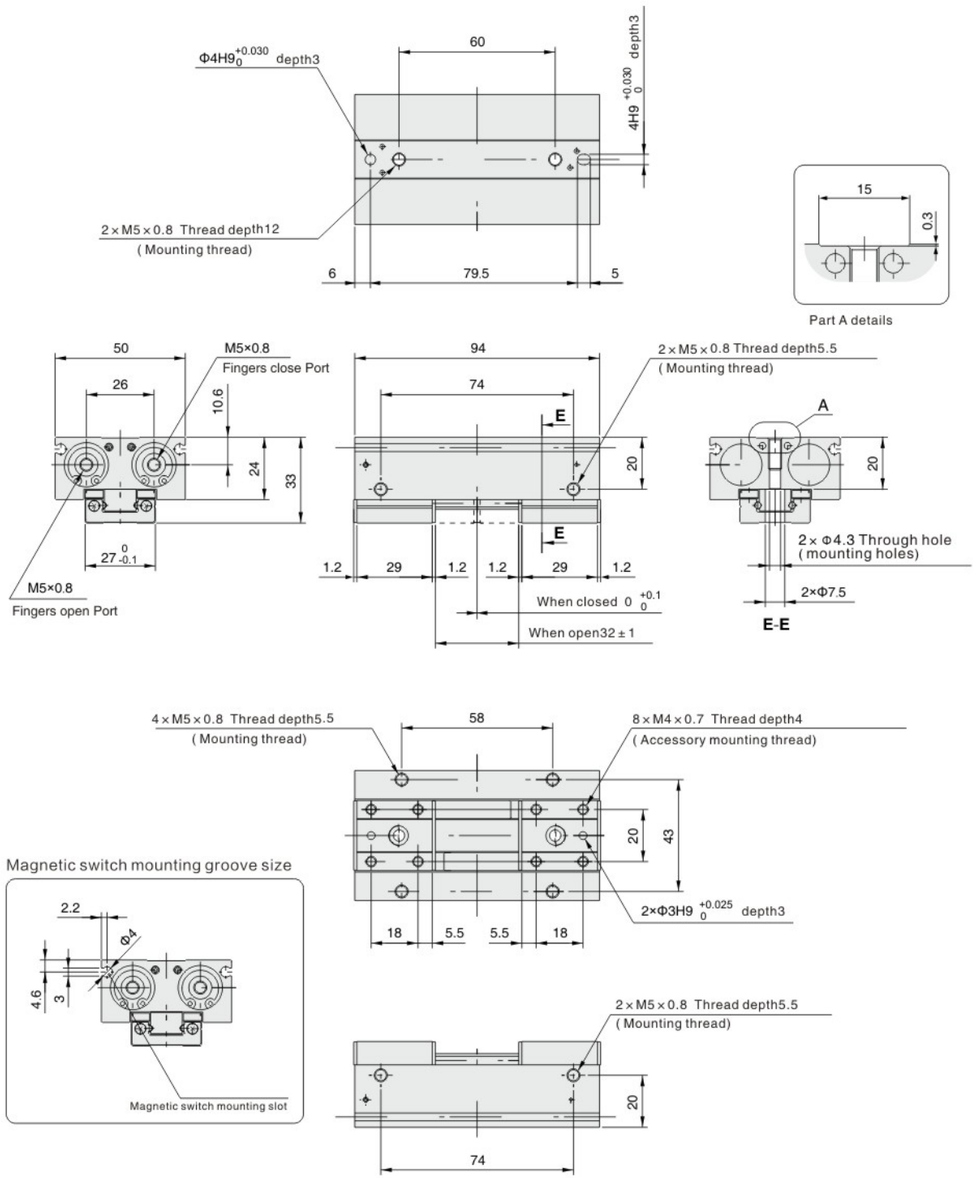
Dimensions (mm)

MHF2-16D



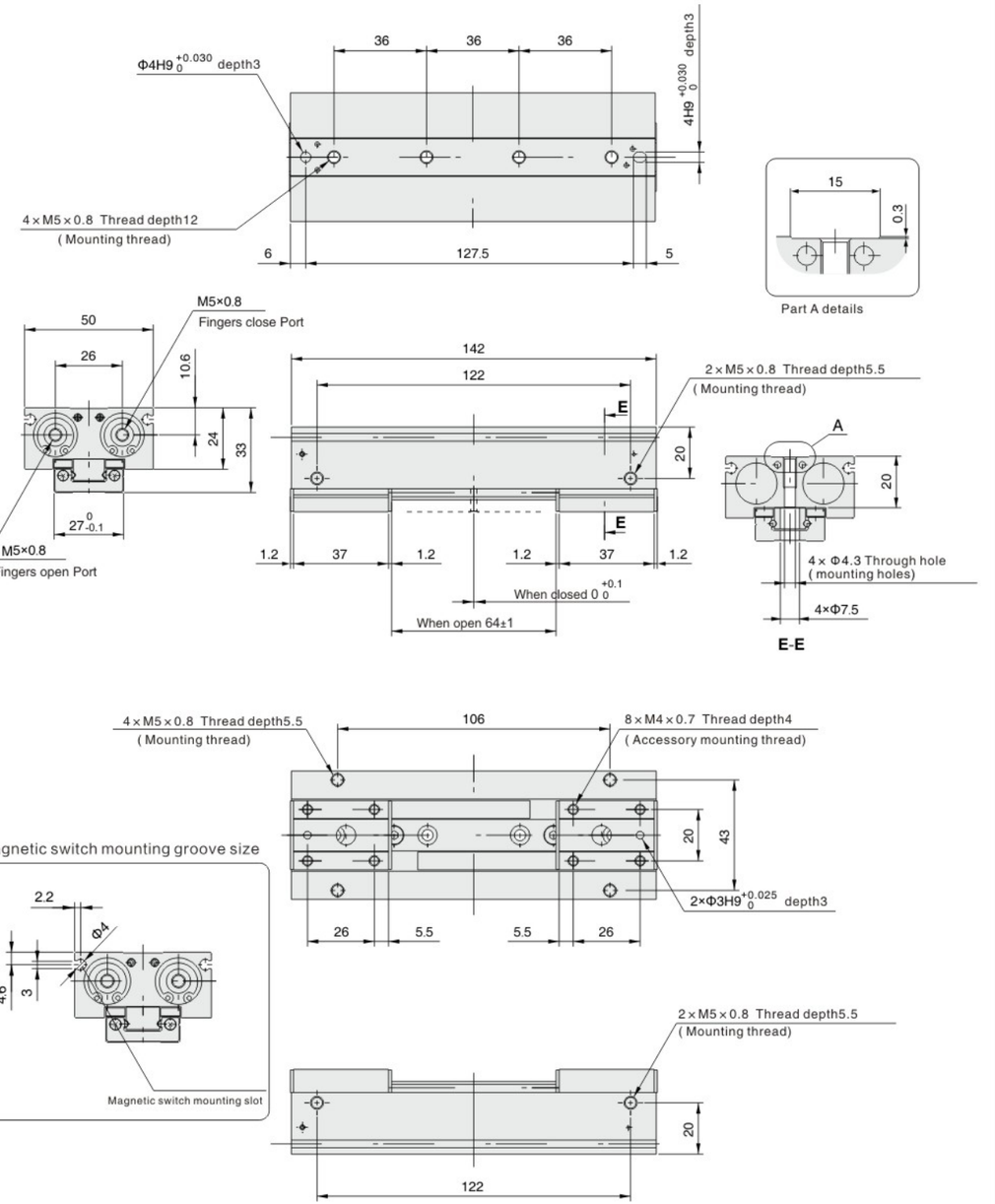
Dimensions (mm)

MHF2-16D1



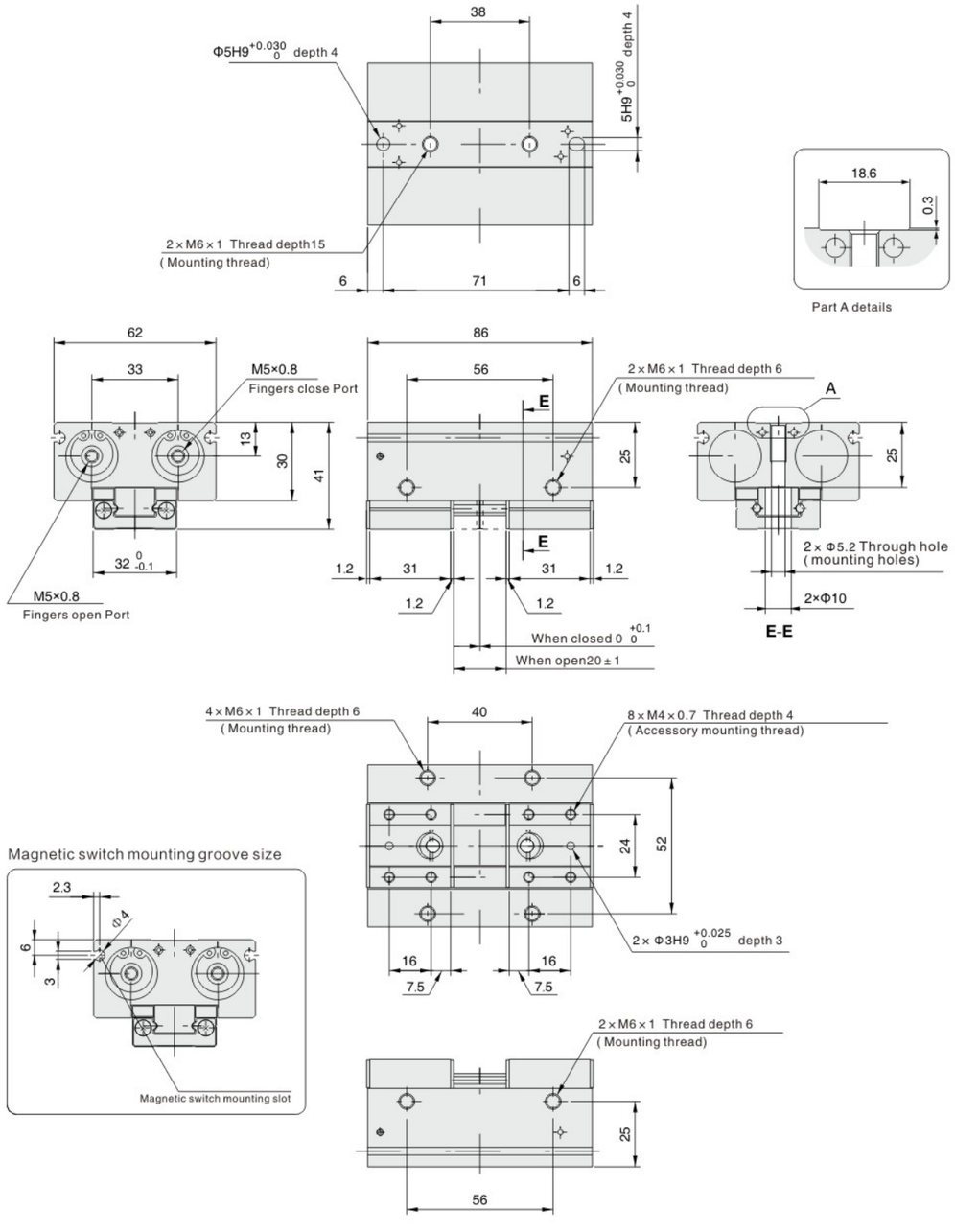
Dimensions (mm)

MHF2-16D2



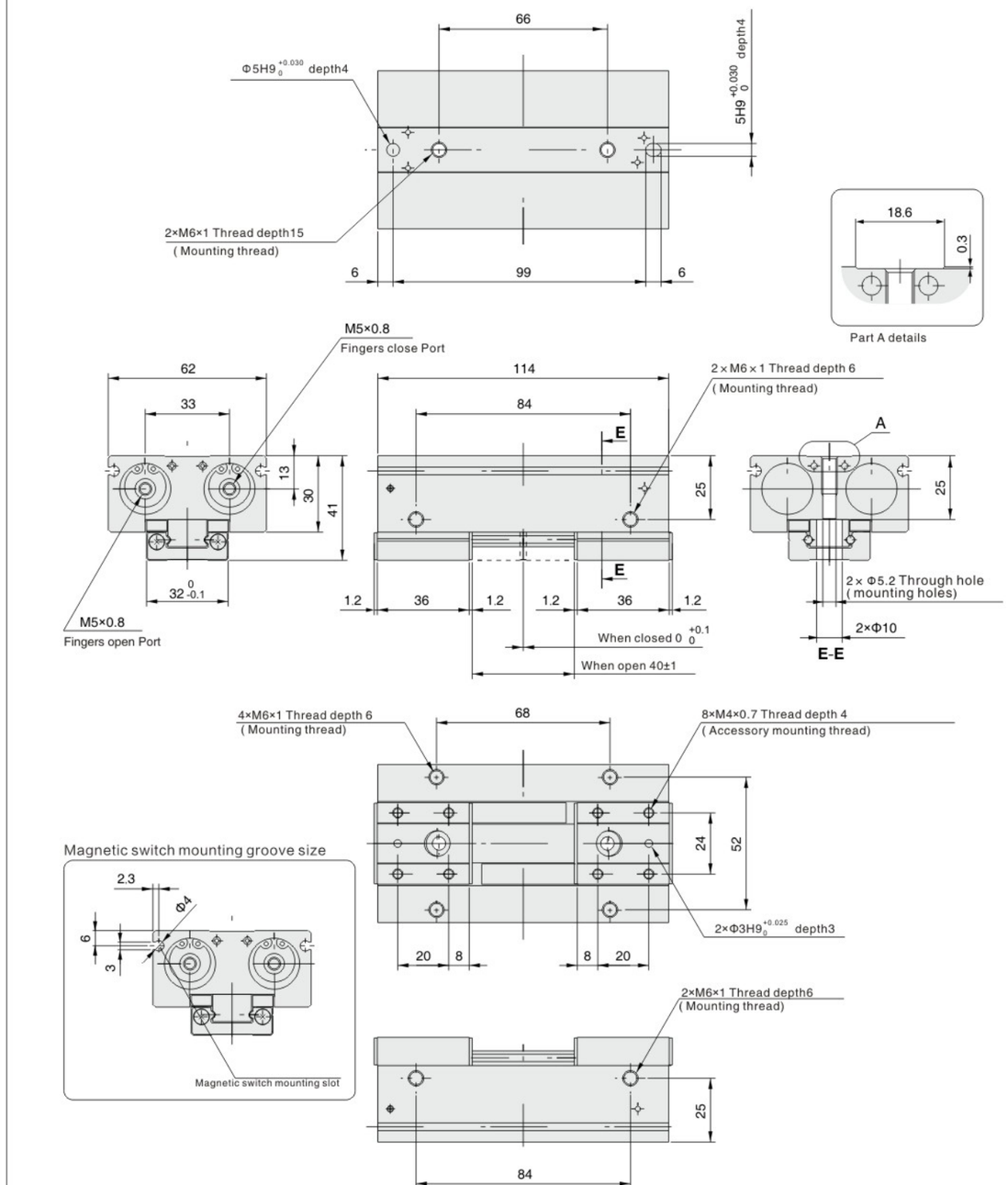
Dimensions (mm)

MHF2-20D



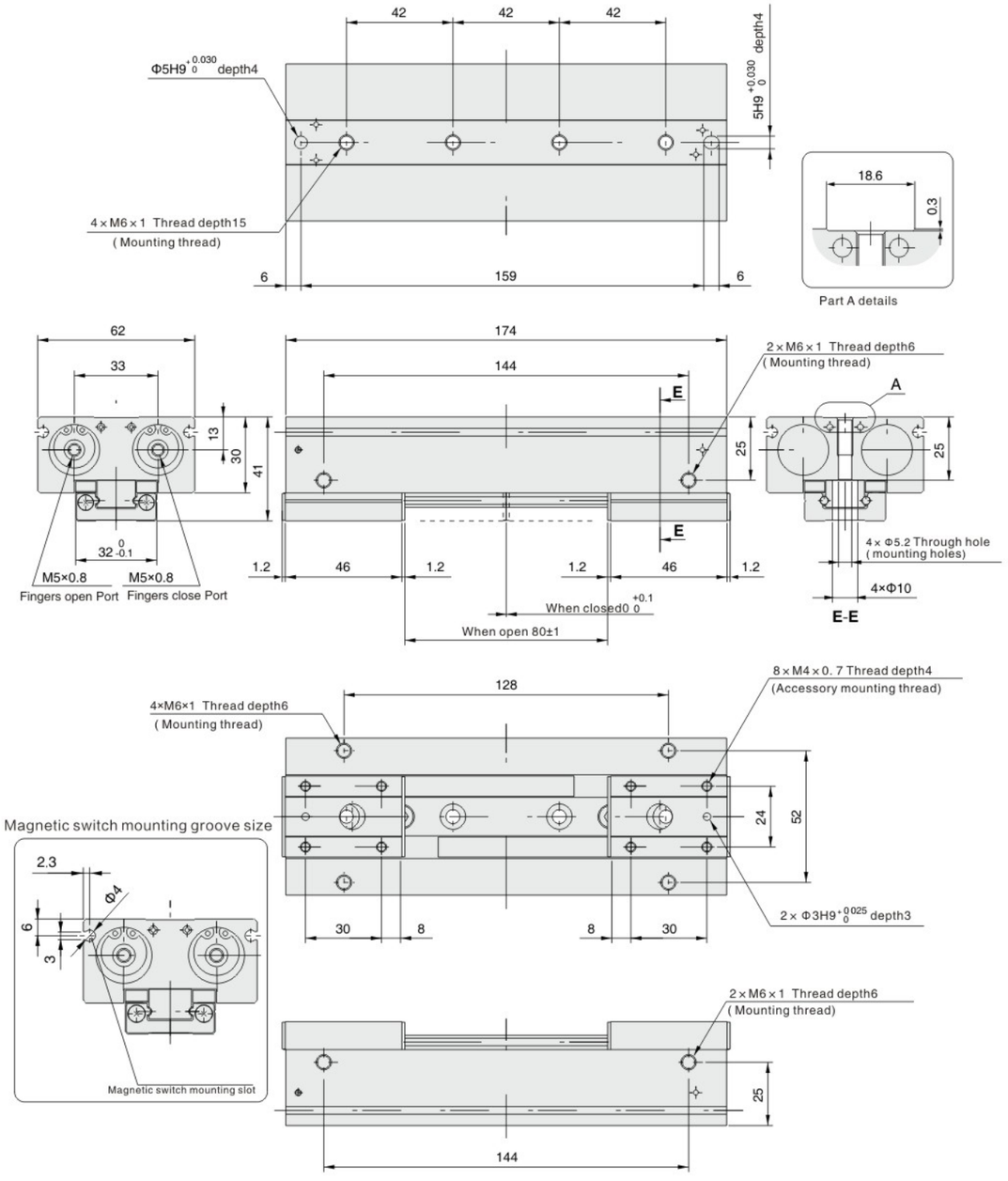
外形尺寸图(毫米)/Dimensions (mm)

MHF2-20D1



Dimensions (mm)

MHF2-20D2

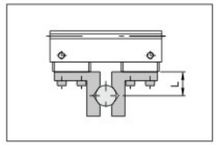


Effective Gripping Force

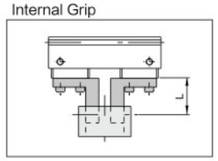
● Indication of effective gripping force

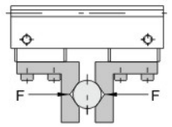
The gripping force shown in the tables represents the gripping force of one finger when all fingers and attachments are in contact with the work.
F = one finger thrust.

External Grip

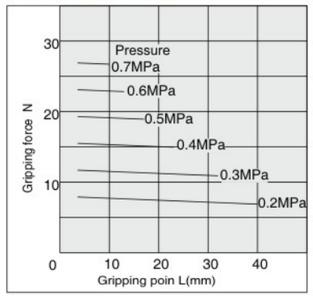


Internal Grip

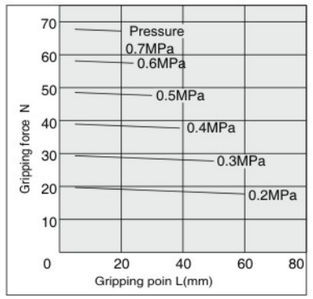




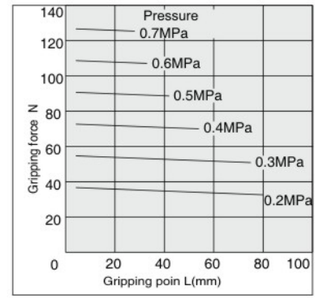
MHF2-8D□



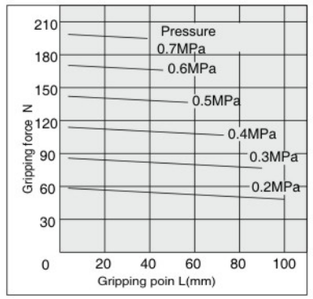
MHF2-12D□



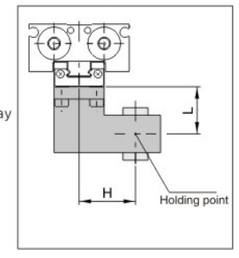
MHF2-16D□



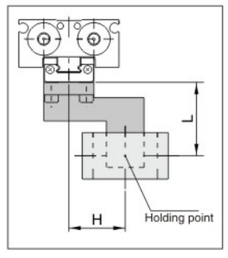
MHF2-20D□



External Grip



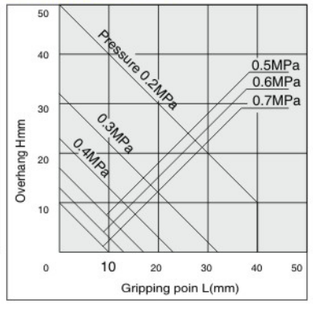
Internal Grip



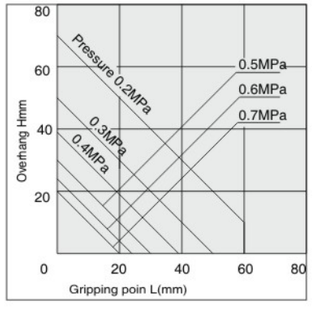
The air gripper should be operated so that the amount of overhang "H" will stay within the range given in the graphs below.

If the workpiece gripping point goes beyond the range limits, this will have an adverse effect on the life of the air gripper.

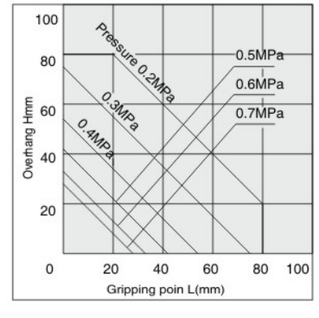
MHF2-8D□



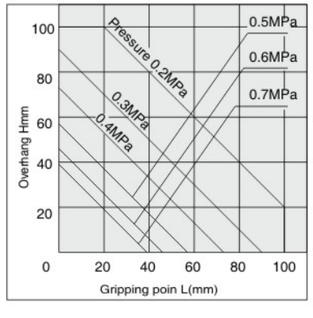
MHF2-12D□

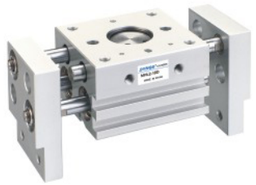


MHF2-16D□



MHF2-20D□





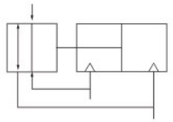
- Long finger stroke, suitable for large volume workpiece.
- Dual piston design can increase retention
- Fingers synchronized by rack and pinion mechanism.
- Dust-protection design adopt special sealing.

Standard Specification

Bore size (mm)	10	16	20	25	32	40
Fluid	Air					
Action type	Double-acting					
Max. operating pressure(MPa)	0.6					
Min.operating pressure(MPa)	0.15	0.1				
Ambient fluid temperature	-10~60℃					
Repeatability	±0.1mm					
Note1) Retention N	14	45	74	131	228	396
Port size	M5×0.8				Rc1/8	

Note 1) The gripping point distance is 40mm (ϕ10 ~ ϕ25) 80mm (ϕ32 / ϕ40) under the presure of 0.5Mpa.

Symbol



订购码/Ordering code

MHL 2 - 16 D 1 - Y59A □

2 pcs of fingers

Double-acting

Bore size

10	ø10mm
16	ø16mm
20	ø20mm
25	ø25mm
32	ø32mm
40	ø40mm

Auto Switch Model

Nil	Without auto switch

* Auto switch model behind, with a sign indicating the length of the wire:

Nil -0.5m, L-3m, cases Y59A, Y59AL

Number of auto switches

Nil	2
S	1
n	n

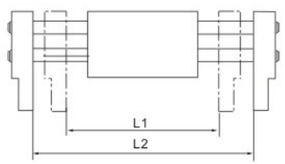
Auto switch model

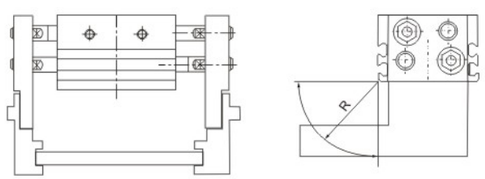
M9B M9N M9P

Finger opening and closing stroke

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

行程/Stroke





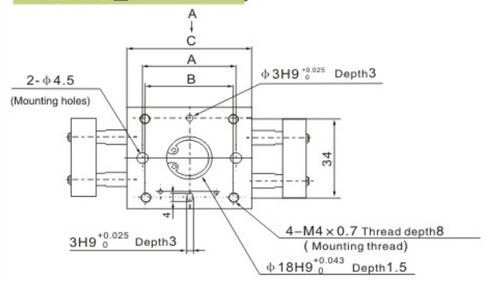
R: gripping point distance (mm)

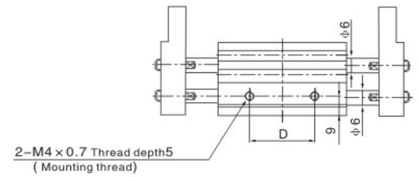
Model	Bore size (mm)	Max.operating frequency c.p.m	Opening / Closing stroke (L2-L1) mm	Width at closing (mm) L1	Width at the opening (mm) L2
MHL2-10D	10	60	20	56	76
MHL2-10D1		40	40	78	118
MHL2-10D2			60	96	156
MHL2-16D	16	60	30	68	98
MHL2-16D1		40	60	110	170
MHL2-16D2			80	130	210
MHL2-20D	20	60	40	82	122
MHL2-20D1		40	80	142	222
MHL2-20D2			100	162	262
MHL2-25D	25	60	50	100	150
MHL2-25D1		40	100	182	282
MHL2-25D2			120	200	320
MHL2-32D	32	30	70	150	220
MHL2-32D1		20	120	198	318
MHL2-32D2			160	242	402
MHL2-40D	40	30	100	188	288
MHL2-40D1		20	160	246	406
MHL2-40D2			200	286	486

DYNQD®
MHL2 Series (Φ10~Φ40) wide type grippers(Parellel open and close type)

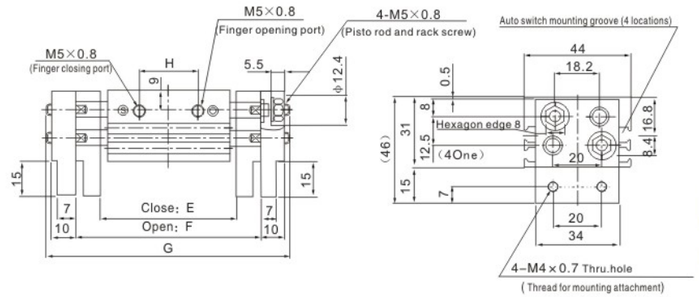
Dimensions (mm)

MHL2-10D□



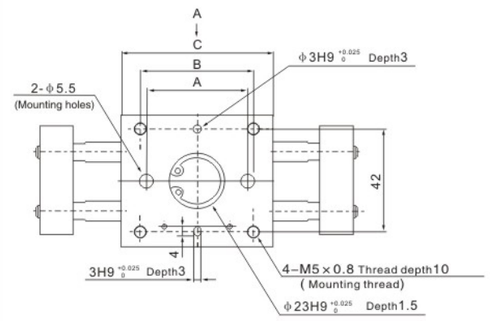


A view

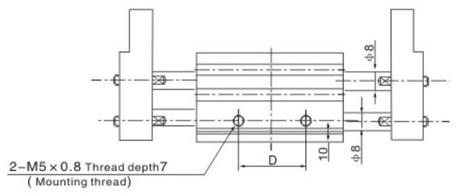


Model	A	B	C	D	E	F	G	H
MHL2-10D	38	36	51	26	56	76	100	24
MHL2-10D1	54	52	67	42	78	118	142	39
MHL2-10D2	72	70	85	60	96	156	180	57

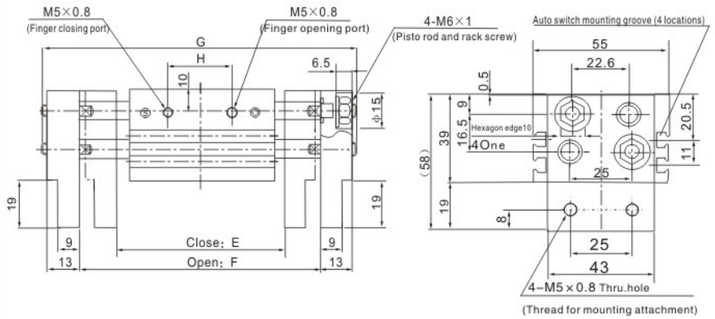
MHL2-16D□



(Fingers closed cell)



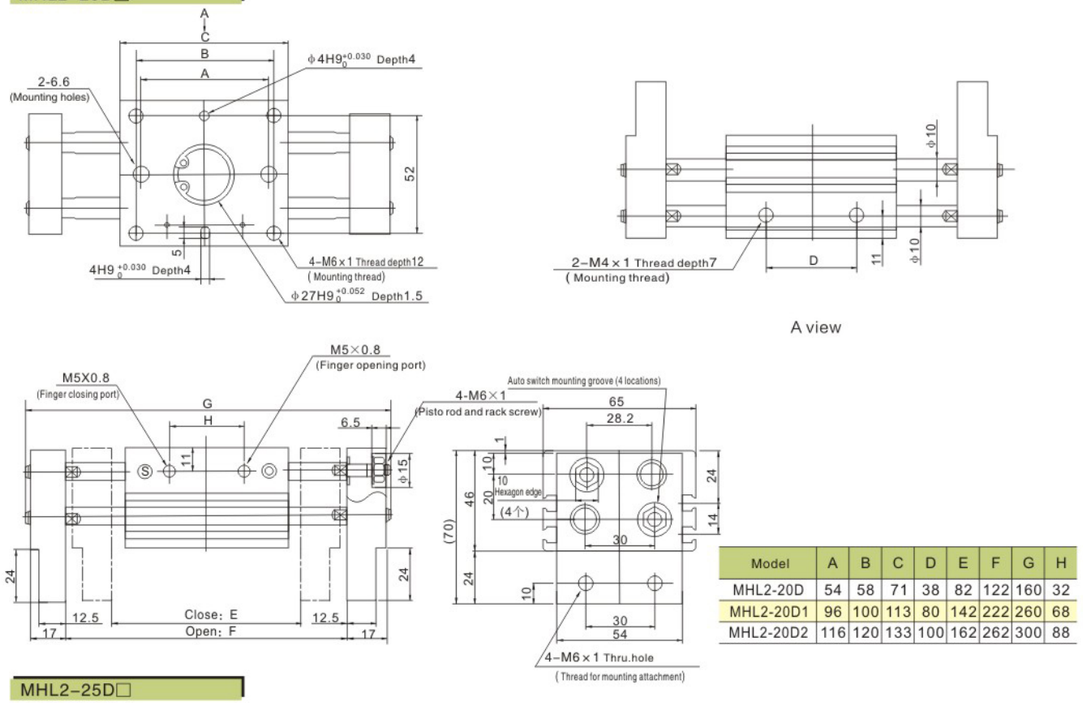
A view



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

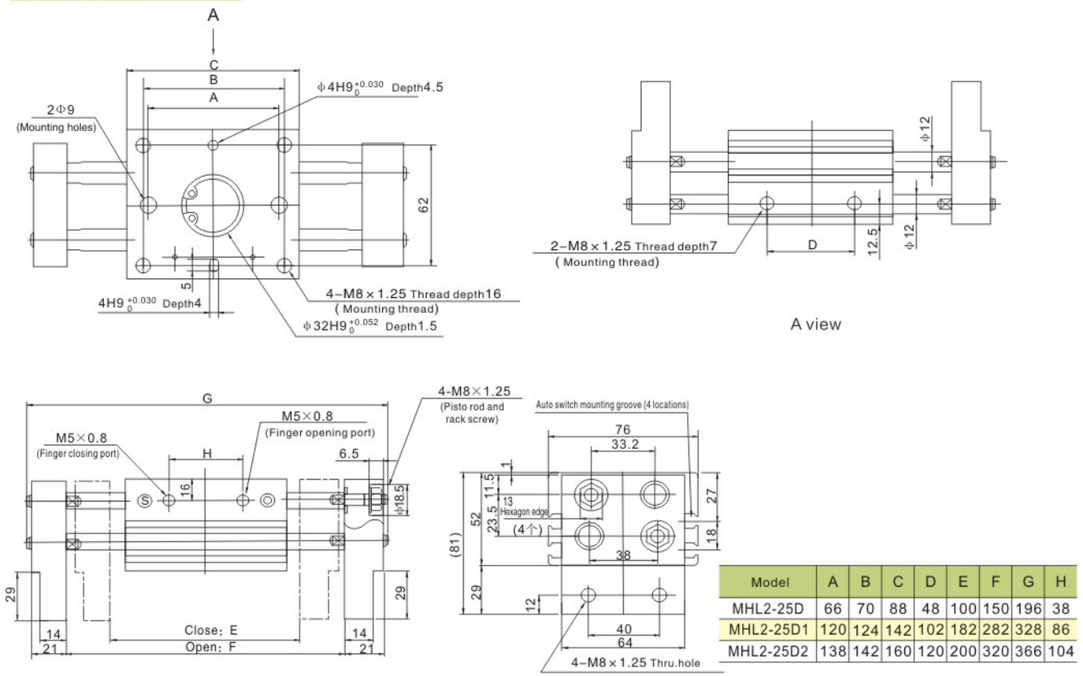
Dimensions (mm)

MHL2-20D□



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

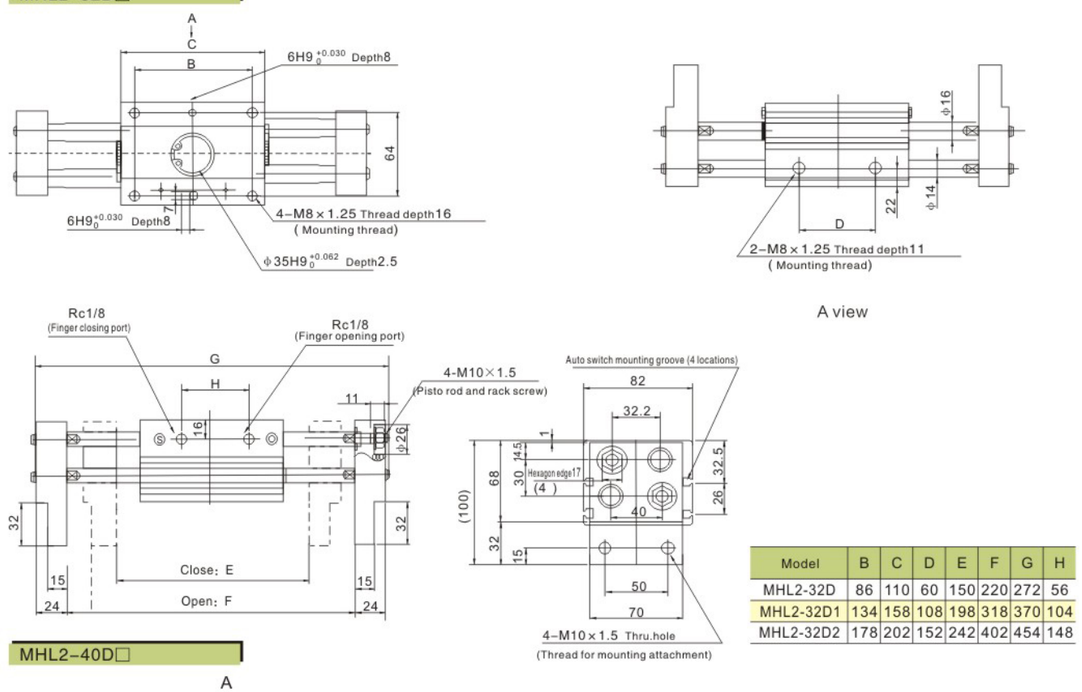
MHL2-25D□



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

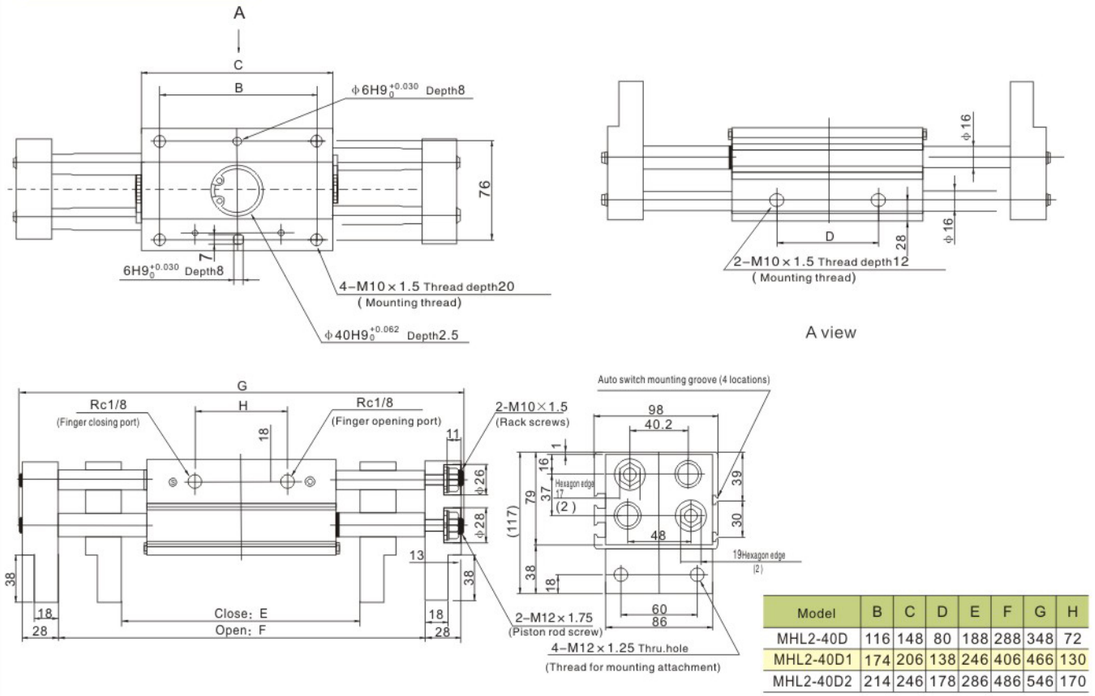
Dimensions (mm)

MHL2-32D□



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

MHL2-40D□

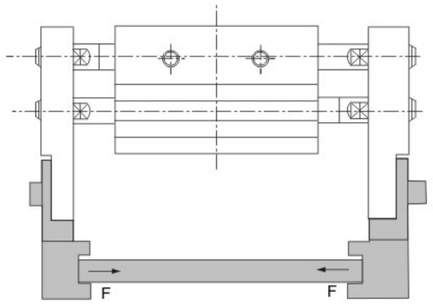


Model	B	C	D	E	F	G	H
MHL2-40D	116	148	80	188	288	348	72
MHL2-40D1	174	206	138	246	406	466	130
MHL2-40D2	214	246	178	286	486	546	170

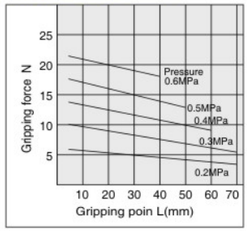
Effective Gripping Force

● Indication of effective gripping force

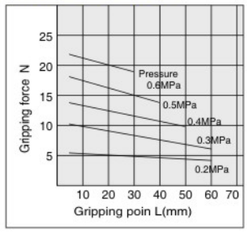
The gripping force shown in the tables represents the gripping force of one finger when all fingers and attachments are in contact with the work.
F = one finger thrust.



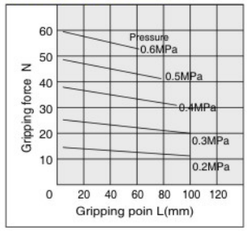
MHL2-10D



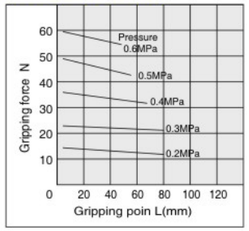
MHL2-10D1/2



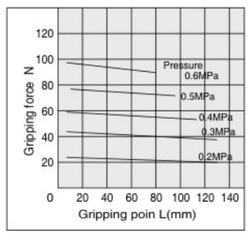
MHL2-16D



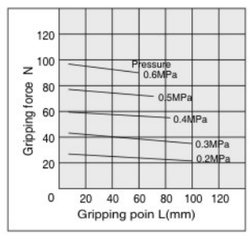
MHL2-16D1/2



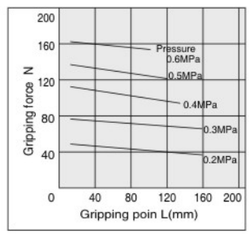
MHL2-20D



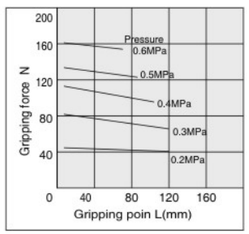
MHL2-20D1/2



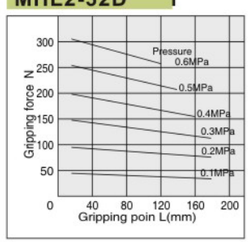
MHL2-25D



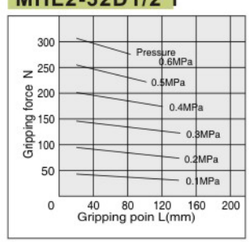
MHL2-25D1/2



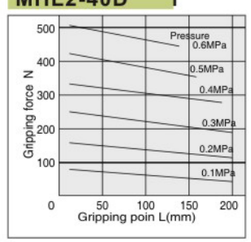
MHL2-32D



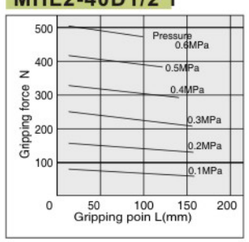
MHL2-32D1/2



MHL2-40D



MHL2-40D1/2



* Auto switch is attachable.
* 180° Retractable simplify pick and place operation.
* May be suitable for use under special circumstances, the finger opening and closing part specifically designed to prevent small items from entering.
* Easy to install, with positioning holes.

Specification

Model	MHY2-10D	MHY2-16D	MHY2-20D	MHY2-25D
Fluid	Air			
Action type	Double-acting			
Max. operating pressure(MPa)	0.6			
Min.operating pressure(MPa)	0.1			
Ambient fluid temperature	-10~+60℃			
Max. operating frequency	60c.p.m			
Repeatability(mm)	±0.2mm			
Holding torque N·m Note1)	0.16	0.54	1.10	2.28
Lubrication Note2)	Not required			
Port size	M5×0.8			

Note 1) At the pressure of 0.5Mpa
Note 2) If you need lubrication, use turbine No.1 oil ISO VG32.

订购码/Ordering code

MHY 2 − 16 D 2 M9NL □

2 pcs of fingers
Note: The opening and closing angle (both sides)
Open side: 180°
Closed side: -3°

Bore size

10	ø10mm
16	ø16mm
20	ø20mm
25	ø25mm

Double −acting

手指安装形式
Finger option

Nil	Standard tapped mounting
2	Through−hole in opening/closing direction

Number of auto switches

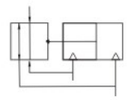
Nil	2
S	1

Auto Switch Model

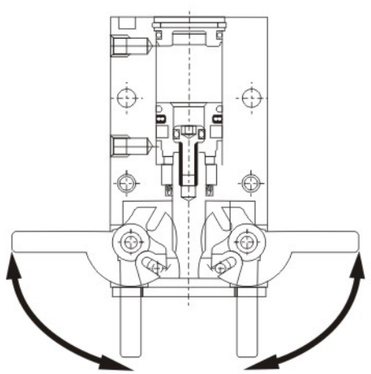
Nil	Without auto switch
M9N(V)	Specifications and characteristics of the magnetic switch magnetic switch series See
M9B(V)	
M9P(V)	

*Auto switch model behind, with a sign indicating the length of the wire:
无记号Nil－0.5m ， L－3m，Z－5m
Example：M9N ，M9NL

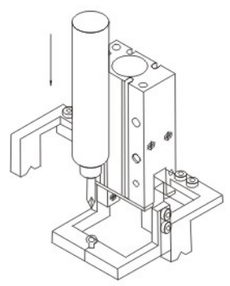
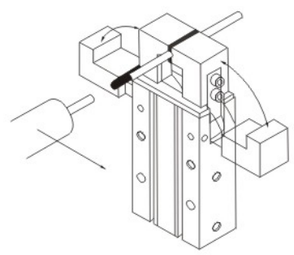
符号/Symbol



Chart

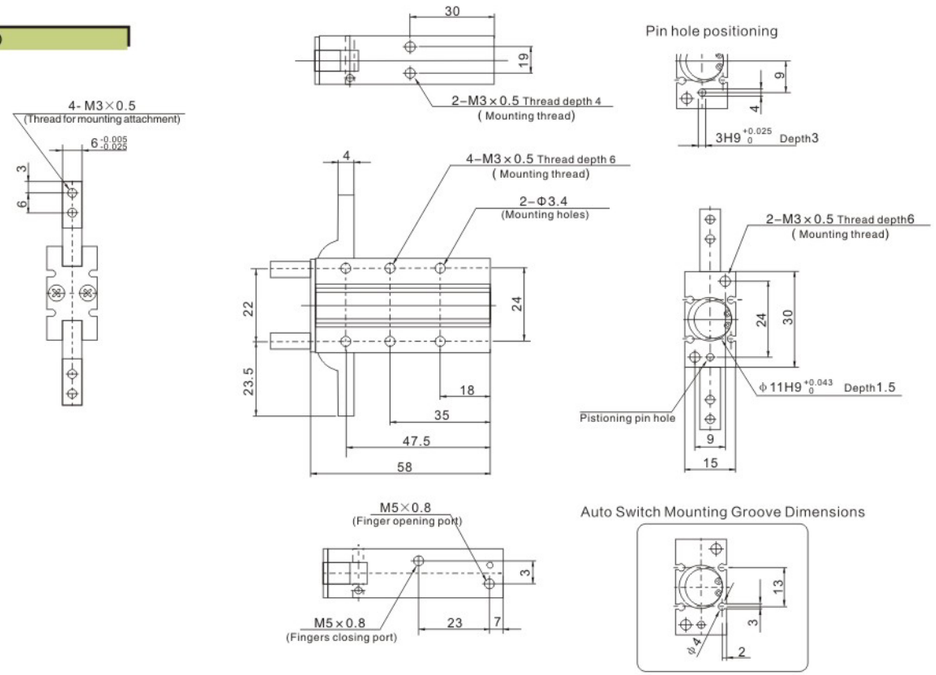


Function Example

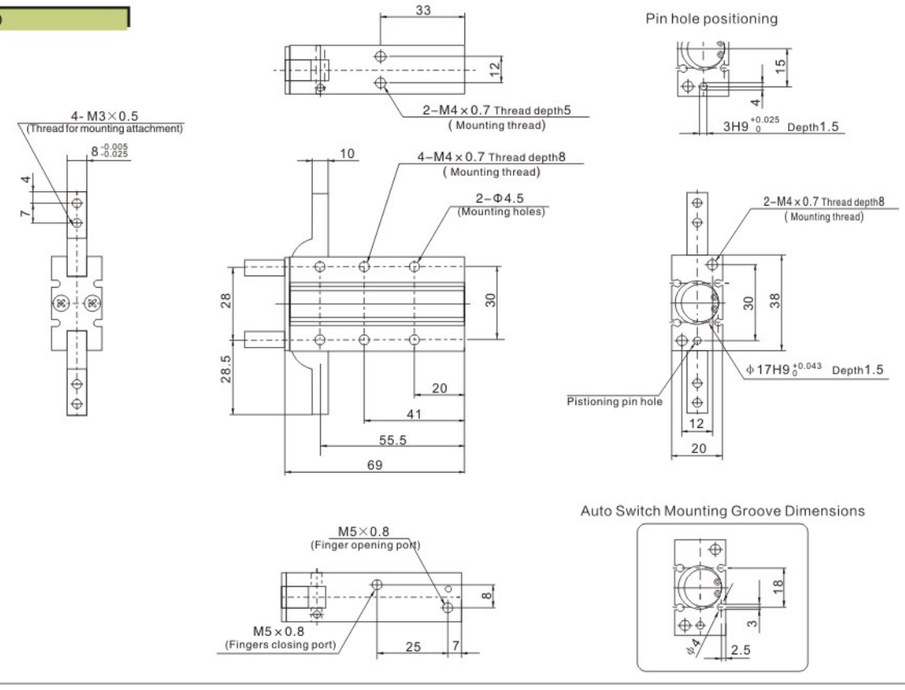
Fixing screws	Clamping wire
	

Dimensions (mm)

MHY2-10D

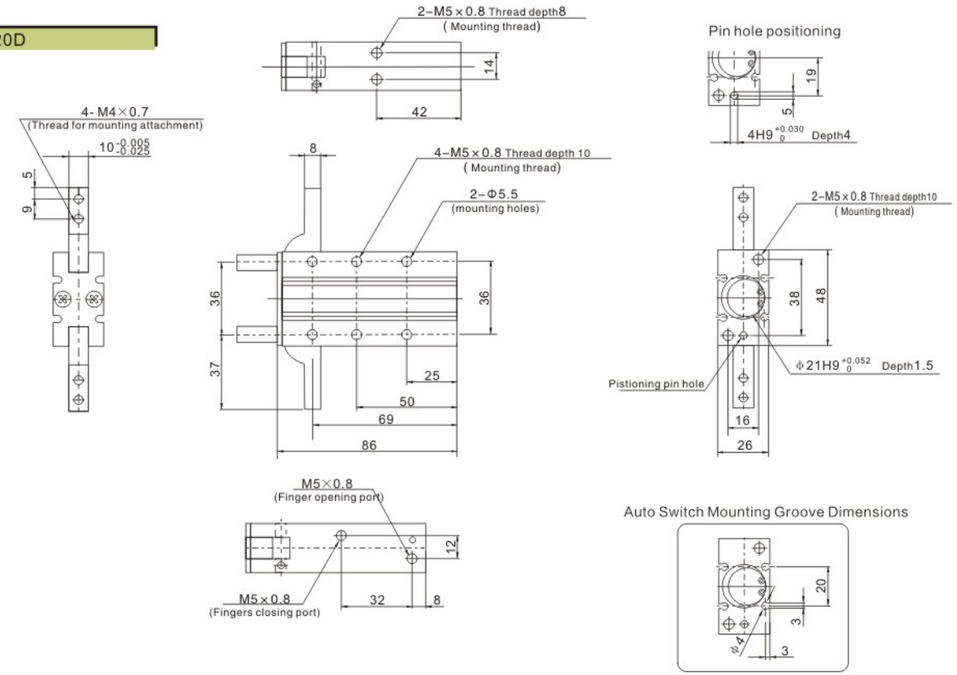


MHY2-16D

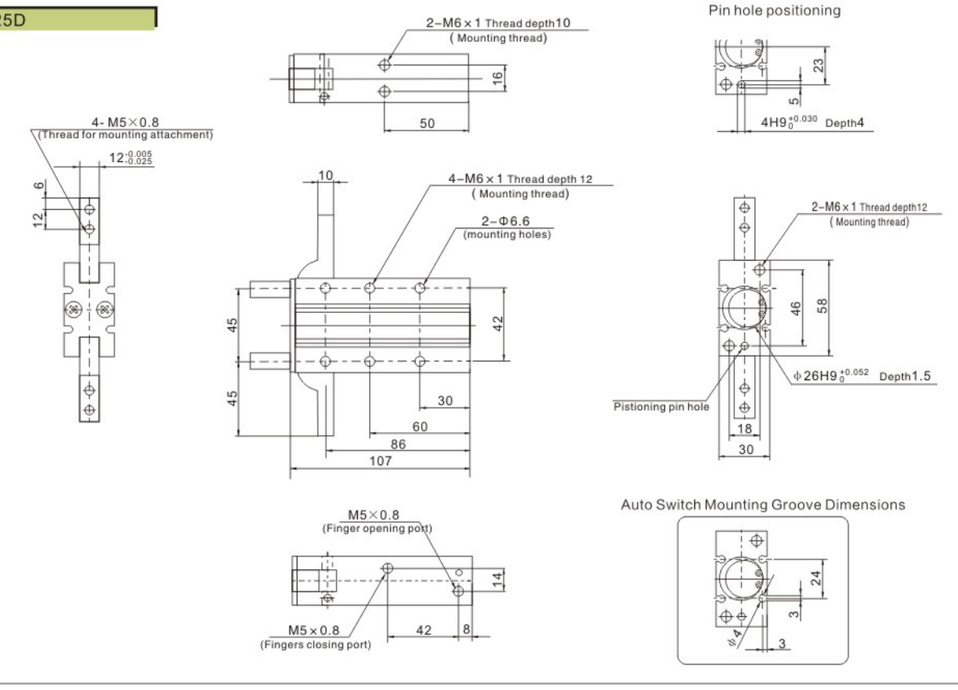


Dimensions (mm)

MHY2-20D



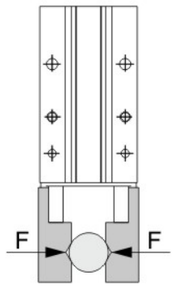
MHY2-25D

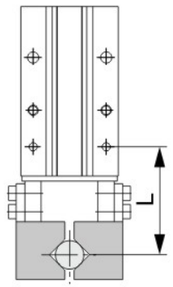


Effective Gripping Force

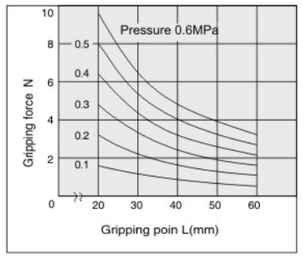
● Indication of effective gripping force

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

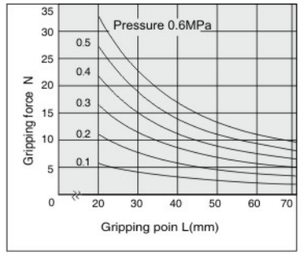




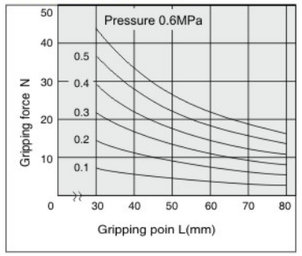
MHY2-10D



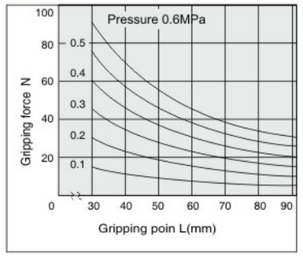
MHY2-16D



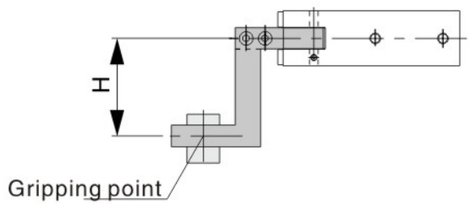
MHY2-20D



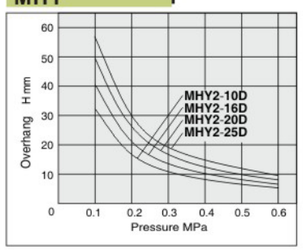
MHY2-25D



· Workpiece should be held at a point within the range of overhanging distance (H) for a given pressure indicated in the tables on the right.
· When the workpiece is held at a point outside of the recommended range for a given pressure, it may cause adverse effect on the product life.



MHY



● A large amount of gripping force is provided through the use of a double piston mechanism, while maintaining a compact design.

● Built-in variable throttle

● A solid state auto switch with an indicator light can be mounted.

Symbol

Specification

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

Model

Operation mode	Model	Bore size (mm)	Gripping moment N · m (Effective value)	Opening/closing angle (Both sides)	Note.2) Weight g
Double acting	MHC2-10D	10	0.10	30° ~-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° ~-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.
Note.2) Except auto switch.

订购码/Ordering code

MHC2 – 20 D – M9BW □

Angular type air grippe

Bore size

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

Operation mode

D	Double-acting
S	Single acting

Auto switch

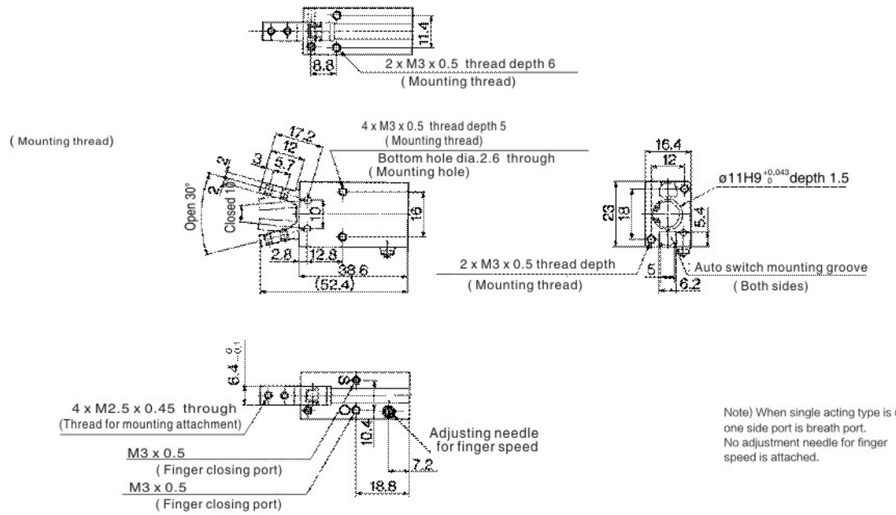
Nil	Without auto switch (Built-in magnet)

Number of auto switches

Nil	2 pcs.
S	1 pcs.

Dimensions (mm)

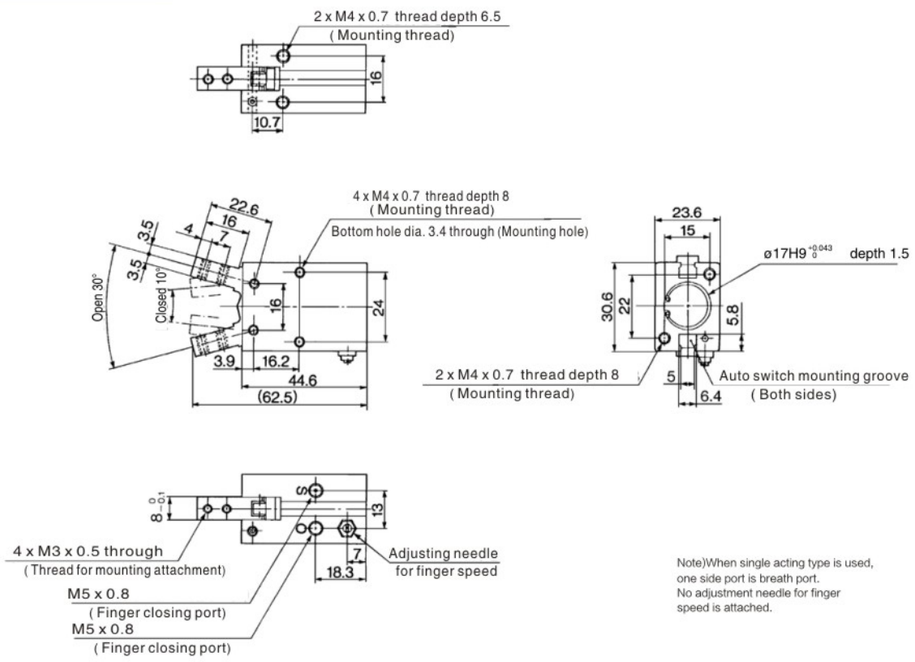
MHC2-10□



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□

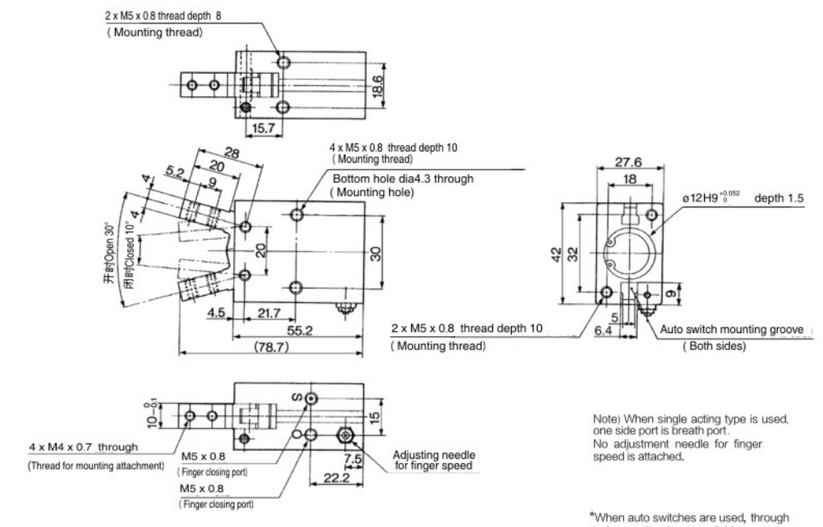


Note)When single acting type is used, one side port is breath port. No adjustment needle for finger speed is attached.

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

Dimensions (mm)

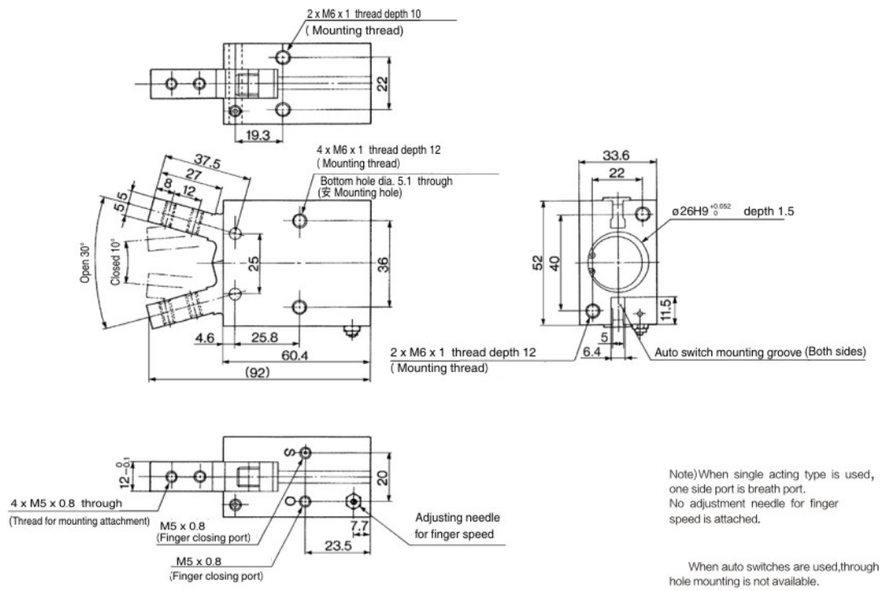
MHC2-20□



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.

MHC2-25□

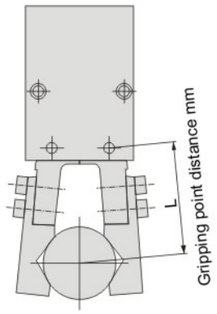


Note)When single acting type is used, one side port is breath port. No adjustment needle for finger speed is attached.

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

Effective Gripping Force

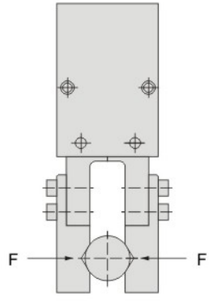
- Workpiece gripping point should be within the range indicated in the graph.



- Guidelines for the selection of the gripper with respect to workpiece mass
- Although conditions differ according to the workpiece shape and the coefficient of friction between the attachments and the workpiece, select a model that can provide a gripping force of 10 to 20 times the workpiece mass, or more.
  If high acceleration, deceleration or impact forces are encountered during motion, a further margin of safety should be considered.

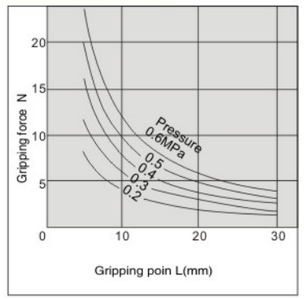
- Indication of effective gripping force

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

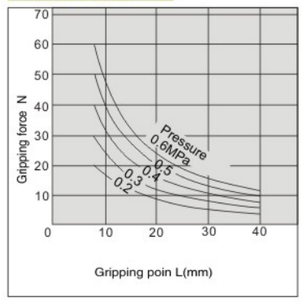


Double acting

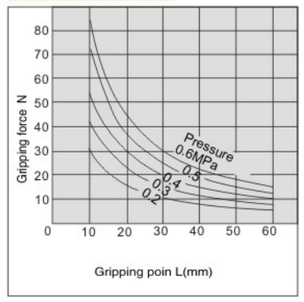
MHC2-10D



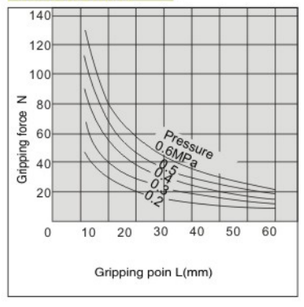
MHC2-16D



MHC2-20D

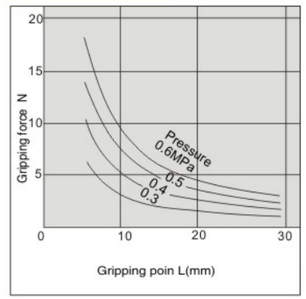


MHC2-25D

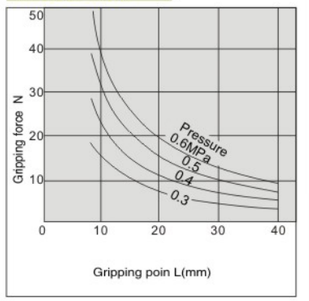


Single acting

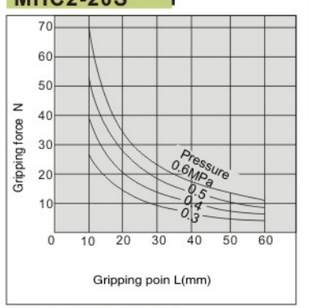
MHC2-10S



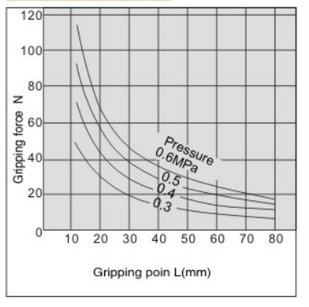
MHC2-16S



MHC2-20S



MHC2-25S

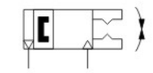


Standard Specification

Fluid		Air
Operating pressure	Double acting	0.15~0.6MPa
	Single acting: Normally open	0.3~0.6MPa
Ambient and fluid temperature		−10~60℃
Repeatability		±0.02mm
Maximum operating frequency		180c.p.m
Lubrication		Non−lube
Action		Double acting, Single acting (Normally open)
Auto switch (Option)		Solid state auto switch (3−wire, 2−wire)

Symbol

Double acting:External grip



Single acting/ Normally open:
External grip

Ordering code

MHC A 2 − 6 D □ − M9B □

Short body

(Auto switch not attachable)

Number of fingers

2	2 finge

Bore size

6	6mm

Action

D	Double acting
S	Single acting (Normally open)

Body option (End boss type)

Auto switch

Nil	Without auto switch (Built−in magnet)

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

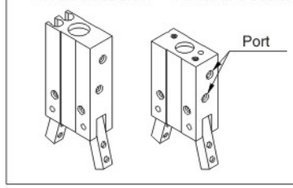
Number of auto switches

Nil	2 Pc.
S	1 Pcs.

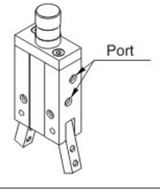
Body option (End boss type)

Nil: Basic type

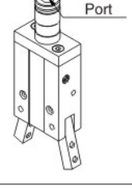
MHC2Occasion MHCA2 Occasion



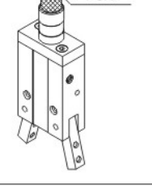
E: Side ported
(Double acting/Single acting)



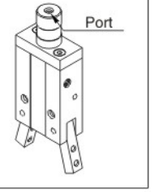
K: Axial ported
with One−touch fitting
(Single acting)



H: Axial ported
with 4 hose nipple (Single acting)

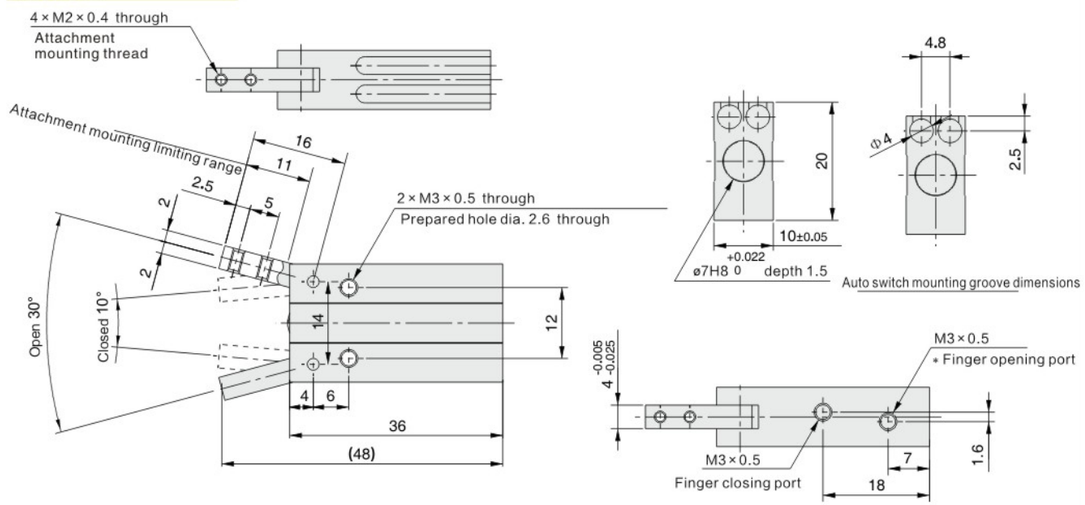


M: Axial M3 port
(Single acting)



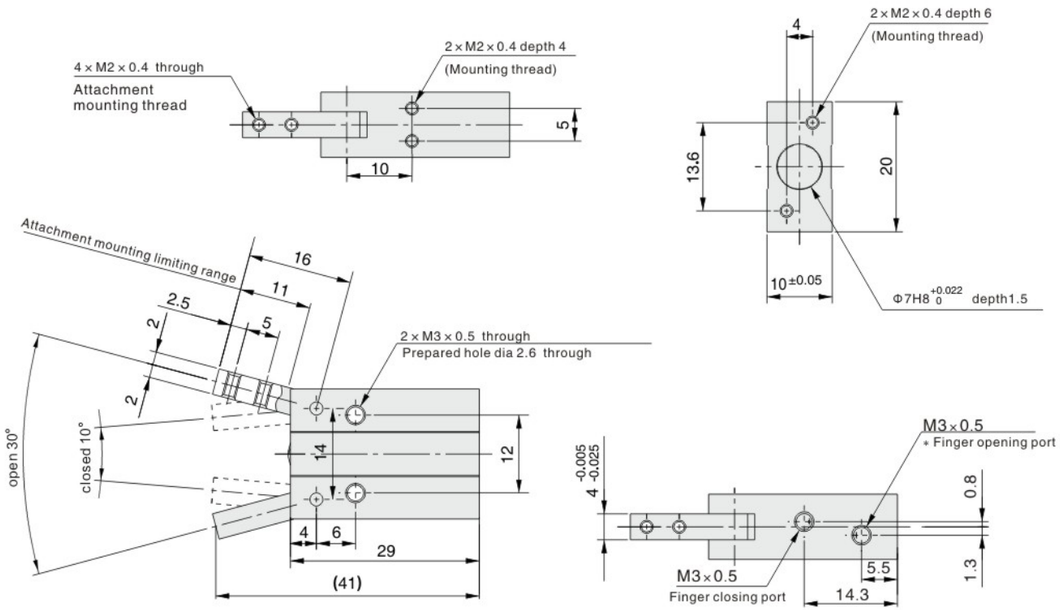
Dimensions (mm)

MHC2-6□



* In the case of MHC2-6S, finger opening port is a breathing hole.

MHCA2-6□



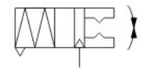
* In the case of MHCA2-6S, finger opening port is a breathing hole.

Specification

Fluid	Air
Operating pressure	0.4~0.6MPa
Ambient and fluid temperature	−10~60℃
Repeatability	±0.02mm
Maximum operating frequency	180c.p.m.
Lubrication	Non-lube
Action	Single acting (Normally open)

Symbol

Single acting/ Normally open: External grip



Ordering code

MHCM 2 - 7 S

Compact type

Number of fingers

2	2 fingers

Bore size

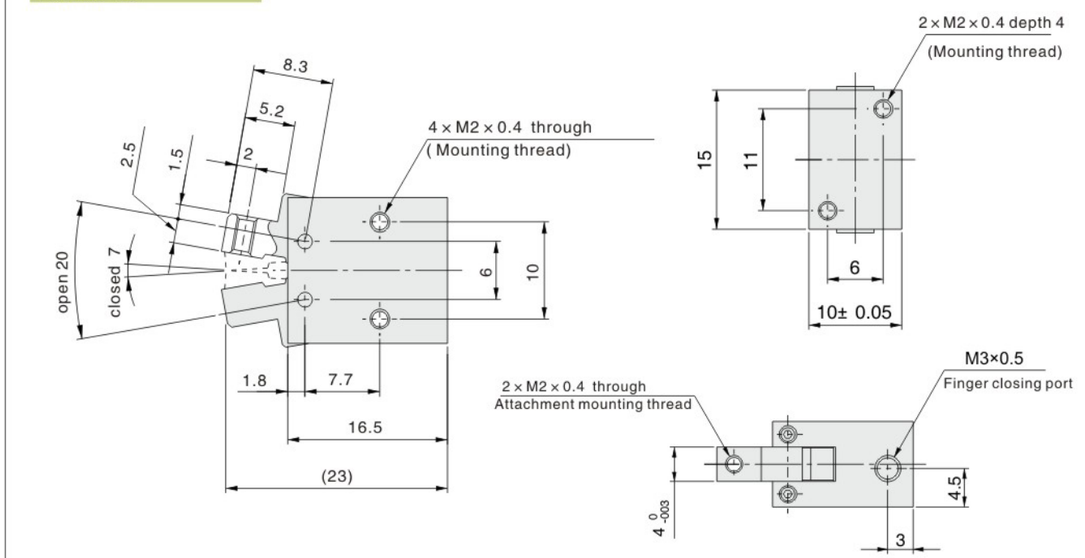
7	7mm

Operation mode

S	Single acting

Dimensions (mm)

MHCM2-7S



Symbol

Standard Specification

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		0.2~0.6			0.1~0.6			
Ambient and fluid temperature ℃		-10~60						
Repeatability mm		±0.01						
Max. operating frequency c.p.m		120			60			
Lubrication		Not required						
Action		Double acting						
Note1) Effective gripping Force (N) at 0.5 MPa	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 Φ16 to Φ25 are with gripping point L = 20 mm, and for Φ32 to Φ63 with gripping point L = 30 mm.

Ordering code

MHS2 − 20 D − M9BW □

Number of fingers

2	2/Π fingers

Bore size

16	16mm
20	20mm
25	25mm
32	32mm
40	40mm
50	50mm
63	63mm

Operation mode

D	Double−acting

Auto switch

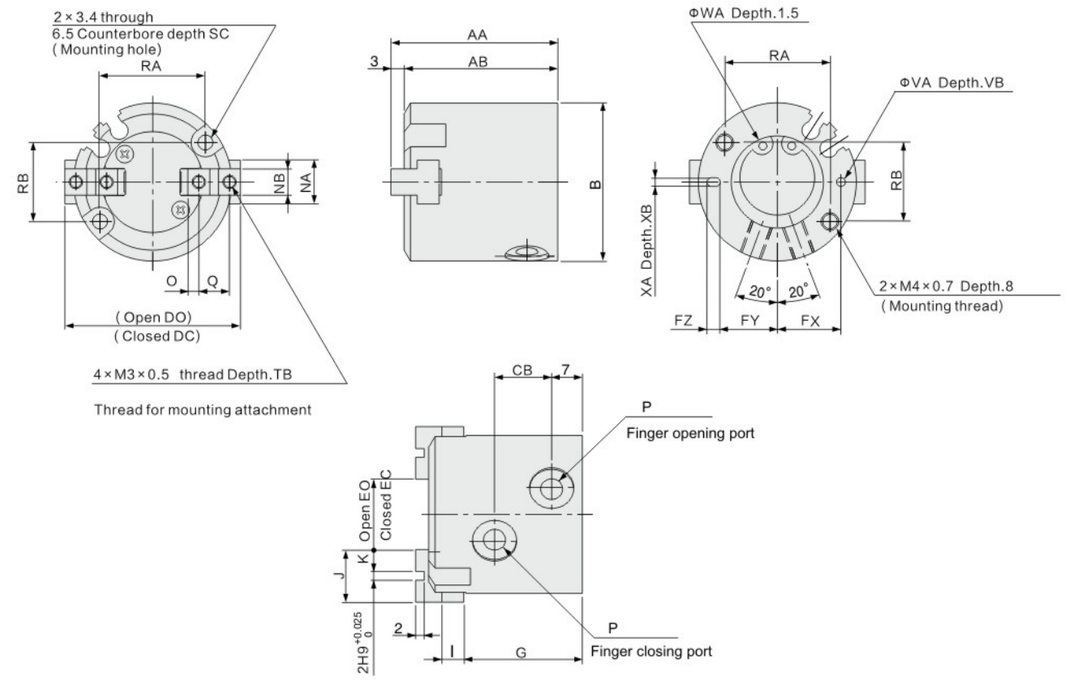
Nil	Without auto switch (Built−in magnet)

Number of auto switches

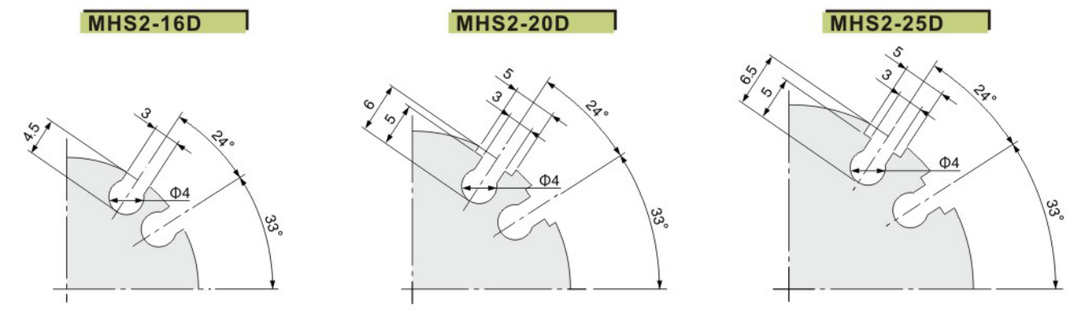
Nil	2 pcs.
S	1 pcs.

Dimensions (mm)

MHS2−16D~25D



Auto switch mounting groove dimensions (2 locations)



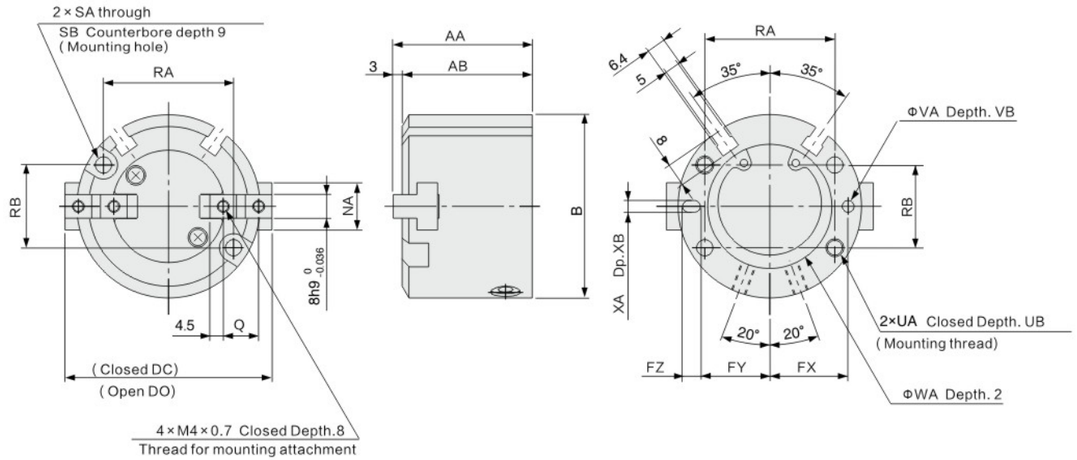
(mm)

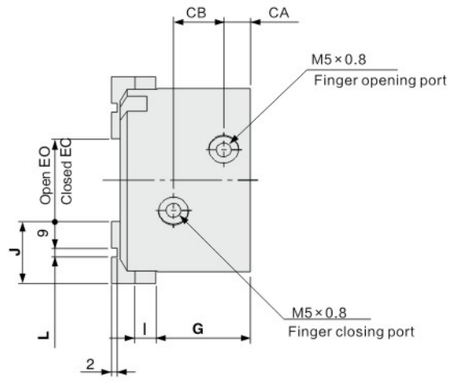
Model	AA	AB	B	CB	DC	DO	EC	EO	FX	FY	FZ	G	I	J	K	NA	NB	O	P	Q
MHS2−16D	35	32	30	11	30	34	10	14	12.5	11	3	25	4	10	4	8	5h9 0 -0.030	2	M3×0.5	6
MHS2−20D	38	35	36	13	36	40	12	16	14.5	13	3	27	5	12	5	10	6h9 0 -0.030	2.5	M5×0.8	7
MHS2−25D	40	37	42	15	42	48	14	20	17	14.5	5	28	5	14	6	12	6h9 0 -0.030	3	M5×0.8	8

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

Dimensions (mm)

MHS2-32D · 40D





(mm)

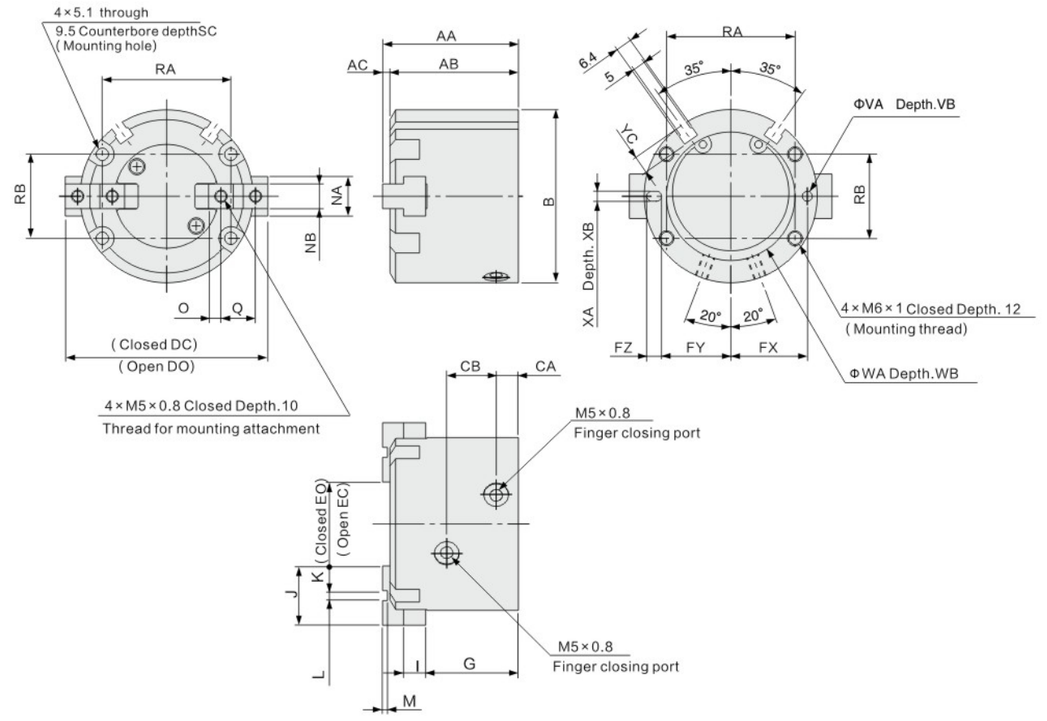
Model	AA	AB	B	CA	CB	DC	DO	EC	EO	FX	FY	FZ	G	I	J	L	NA	Q	RA	RB	SA
MHS2-32D	44	41	56	8	16	56	64	16	24	23	20.5	5	30.5	6	20	2H9 +0.025 0	14	11	38	25	4.5
MHS2-40D	47	44	62	9	17	62	70	20	28	26.5	23.5	6	32	7	21	3H9 +0.025 0	16	12	44	28	5.5

Model	SB	UA	UB	VA	VB	WA	XA	XB
MHS2-32D	8	M5×0.8	10	3H9 +0.025 0	3	3H9 +0.062 0	3H9 +0.025 0	3
MHS2-40D	9.5	M6×1	12	4H9 +0.030 0	4	4H9 +0.062 0	4H9 +0.030 0	4

DYNQD®
MHS2 Series (Φ16~Φ63) Gripper (Parellel open and close type)

Dimensions (mm)

MHS2-50D · 63D

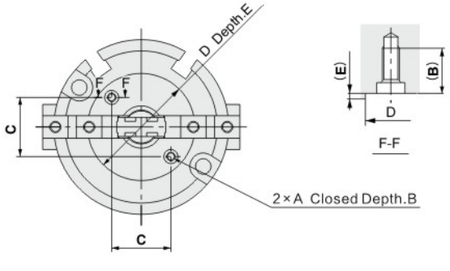


(mm)

Model	AA	AB	AC	B	CA	CB	DC	DO	EC	EO	FX	FY	FZ	G	I	J	K	L	M	NA	NB
MHS2-50D	55	52	3	70	9	20	70	82	22	34	31	28	6	37.5	9	24	10	4H9 +0.030 0	2	18	10h9 0 -0.036
MHS2-63D	66	62	4	86	12	22	86	102	30	46	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
MHS2-50D	5	14	52	34	12	4H9 +0.030 0	4	52H9 +0.074 0	2	4H9 +0.030 0	4	7
MHS2-63D	5.5	17	66	38	14	5H9 +0.030 0	5	65H9 +0.074 0	2.5	5H9 +0.030 0	5	7.5

MHS2 Series Detailed dimensions of mounting portion of end plate

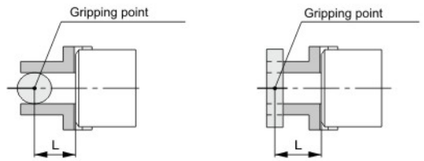


(mm)

Model	A	B	C	D	E
MHS2-16D	M2×0.4	5.5	11	21 +0.1 0	0.5
MHS2-20D		5.4	13	24 +0.1 0	0.6
MHS2-25D			15	27 +0.1 0	
MHS2-32D		5.2	18	32 +0.1 0	0.8
MHS2-40D	M3×0.5	8	21	38 +0.1 0	1
MHS2-50D			24	42 +0.1 0	
MHS2-63D			32	54 +0.1 0	

Gripping Point

● The workpiece gripping point distance should be within the gripping force ranges given for each pressure in the effective gripping force graphs below.
● If operated with the workpiece gripping point beyond the indicated ranges, an excessive offset load will be applied to the sliding section of the fingers, which can have an adverse effect on the service life of the product.



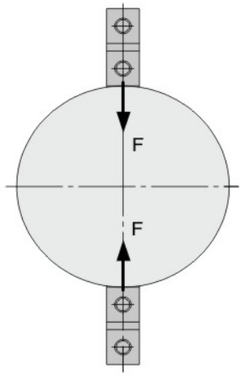
External grip　　Internal grip

L: Gripping point distance

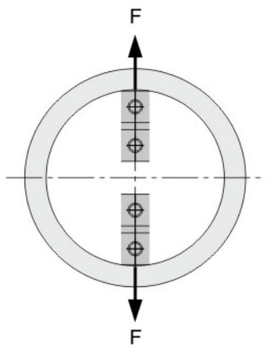
Effective Gripping Force

● Indication of effective gripping force

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



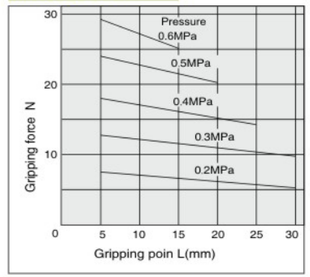
External grip



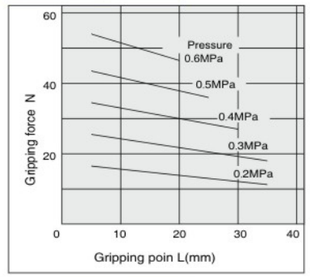
Internal grip

External Grip

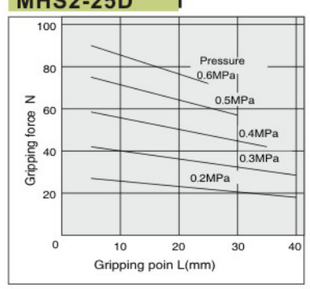
MHS2-16D



MHS2-20D

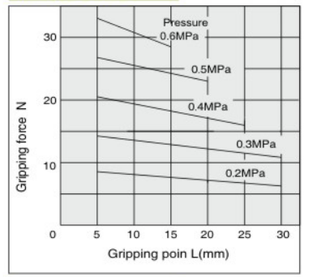


MHS2-25D

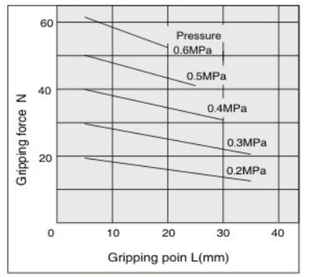


Internal Grip

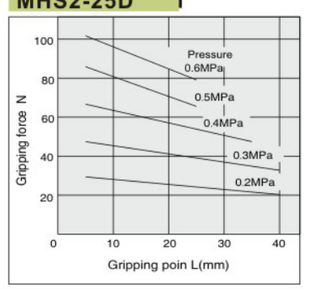
MHS2-16D



MHS2-20D



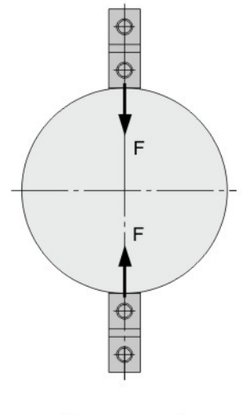
MHS2-25D



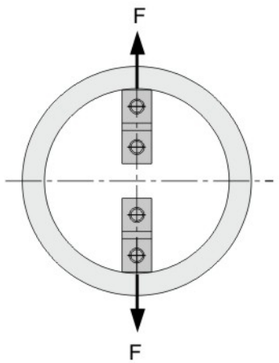
Effective Gripping Force

● Indication of effective gripping force

The effective gripping force shown in the graphs to the right is expressed as F, which is the thrust of one finger when all 2 of the fingers and attachments are in full contact with the workpiece as shown in the figure below



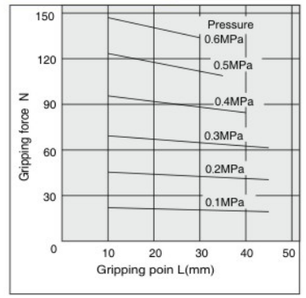
External grip



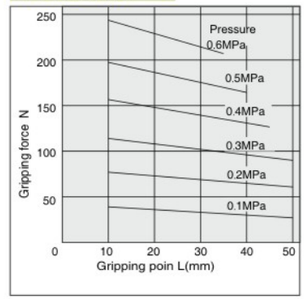
Internal grip

External Grip

MHS2-32D



MHS2-40D



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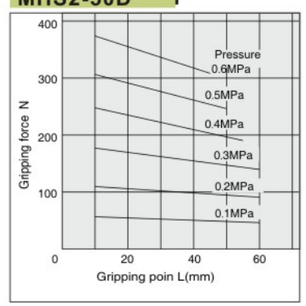
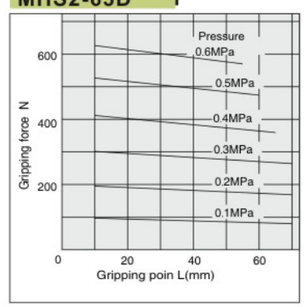
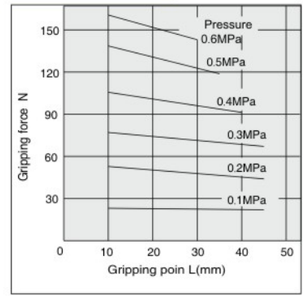


MHS2-63D



Internal Grip

MHS2-32D



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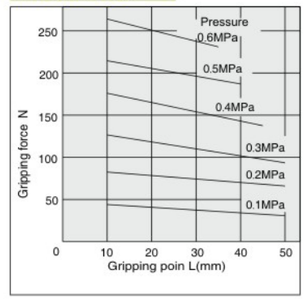
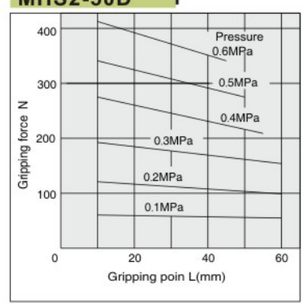
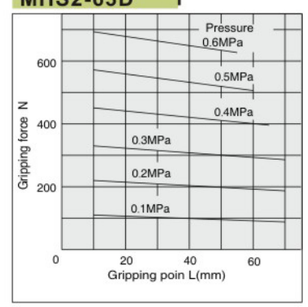


MHS2-50D

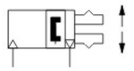


MHS2-63D

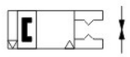


Symbol

Double acting:Internal grip



Double acting:External grip



Standard Specification

Model		MHS3-16D	MHS3-20D	MHS3-25D	MHS3-32D	MHS3-40D	MHS3-50D	MHS3-63D	MHS3-80D	MHS3-100D	MHS3-125D
Bore size (mm)		16	20	25	32	40	50	63	80	100	125
Fluid		Air									
Operating pressure MPa		0.2~0.6			0.1~0.6						
Ambient and fluid temperature ℃		-10~60									
Repeatability mm		±0.01									
Max. operating frequency c.p.m		120			60				30		
Lubrication		Not required									
Action		Double acting									
Note1) Effective gripping force (N) at 0.5 MPa	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 (dia.) mm		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 Φ16 to Φ25 are with gripping point L = 20 mm, for Φ32 to Φ63 with gripping point L = 30 mm, and for Φ80 to Φ125 with gripping point L = 50 mm.

Ordering code

MHS3 – 50 □ D – M9BW □

Number of fingers

3	3 fingers

Bore size

16	16mm	50	50mm
20	20mm	63	63mm
25	25mm	80	80mm
32	32mm	100	100mm
40	40mm	125	125mm

Port thread type

Symbol	Type	Bore size
	M thread	Φ32~Φ63
Nil	Rc	Φ80~Φ125
TN	NPT	
TF	G	

Operation mode

D	Double-acting

Auto switch

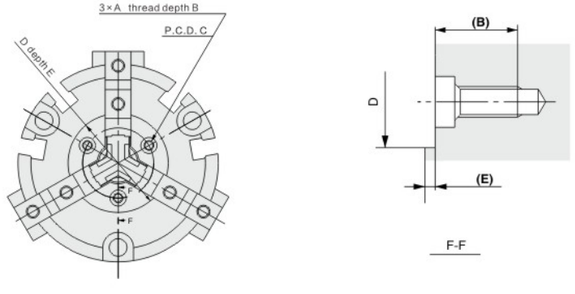
Nil	Without auto switch (Built-in magnet)

Number of auto switches

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

Dimensions (mm)

MHS3 Series Detailed Dimensions of Mounting Portion of End Plate

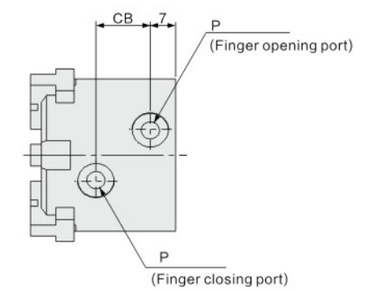


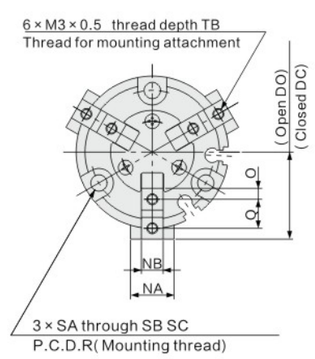
(mm)

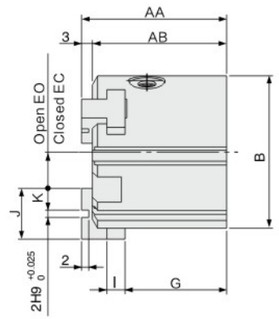
Model	A	B	C	D	E
MHS3-16D	M2×0.4	5.5	12.5	18H8 $^{+0.027}_{0}$	0.5
MHS3-20D		5.4	15	21H8 $^{+0.033}_{0}$	0.6
MHS3-25D			17	23H8 $^{+0.033}_{0}$	
MHS3-32D		5.2	21	27H8 $^{+0.033}_{0}$	0.8
MHS3-40D	M3×0.5	8	22	31H8 $^{+0.039}_{0}$	1
MHS3-50D			26	35H8 $^{+0.039}_{0}$	
MHS3-63D			33	42H8 $^{+0.039}_{0}$	
MHS3-80D	M4×0.7	9.5	40	52H8 $^{+0.046}_{0}$	1.5
MHS3-100D			54	70H8 $^{+0.046}_{0}$	
MHS3-125D			62	82H8 $^{+0.054}_{0}$	

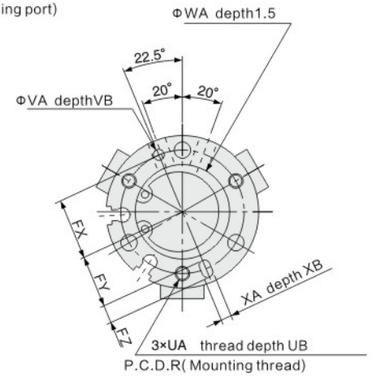
Dimensions (mm)

MHS3-16D~25D



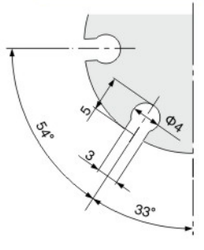




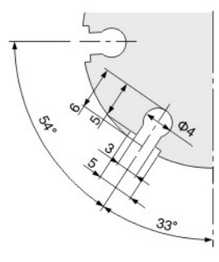


Auto switch mounting groove dimensions (2 locations)

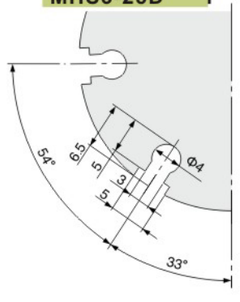
MHS3-16D



MHS3-20D



MHS3-25D



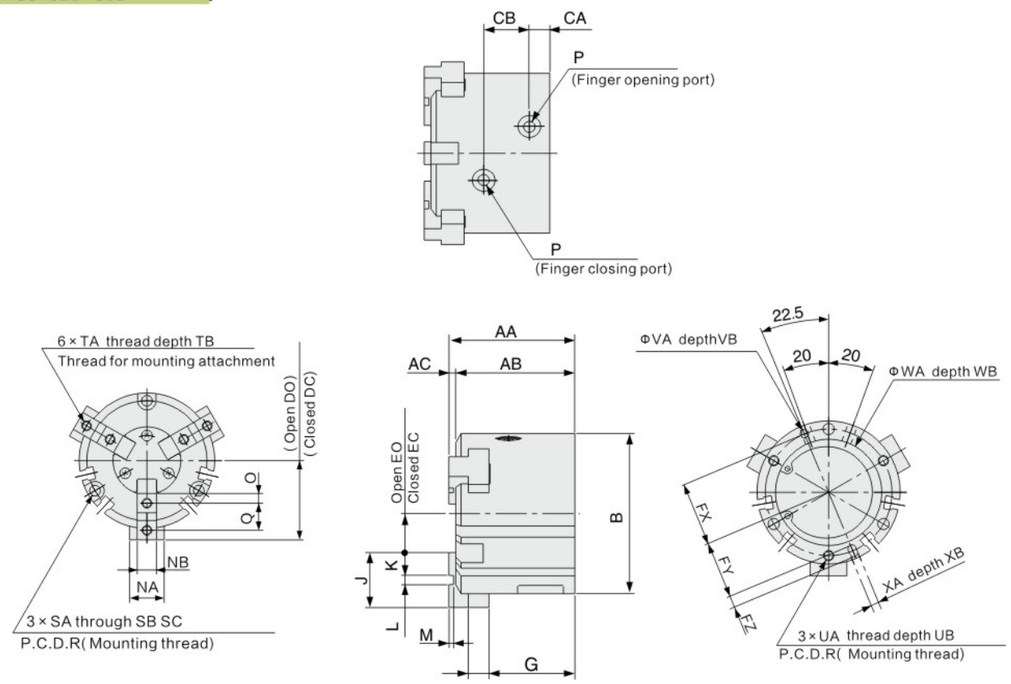
(mm)

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	M3×0.5	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	M5×0.8	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	M5×0.8	8	34

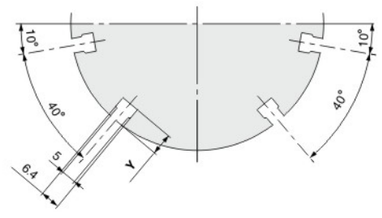
Model	SA	SB	SC	TB	UA	UB	VA	VB	WA	XA	XB
MHS3-16D	3.4	6.5	8	5	M3×0.5	4.5	2H9 $^{+0.025}_{0}$	2	17H9 $^{+0.043}_{0}$	2H9 $^{+0.025}_{0}$	2
MHS3-20D	3.4	6.5	9.5	6	M3×0.5	6	2H9 $^{+0.025}_{0}$	2	21H9 $^{+0.052}_{0}$	2H9 $^{+0.025}_{0}$	2
MHS3-25D	4.5	8	10	6	M4×0.7	6	3H9 $^{+0.025}_{0}$	3	26H9 $^{+0.052}_{0}$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

Dimensions (mm)

MHS3-32D~80D



Auto switch mounting groove dimensions (4 locations)



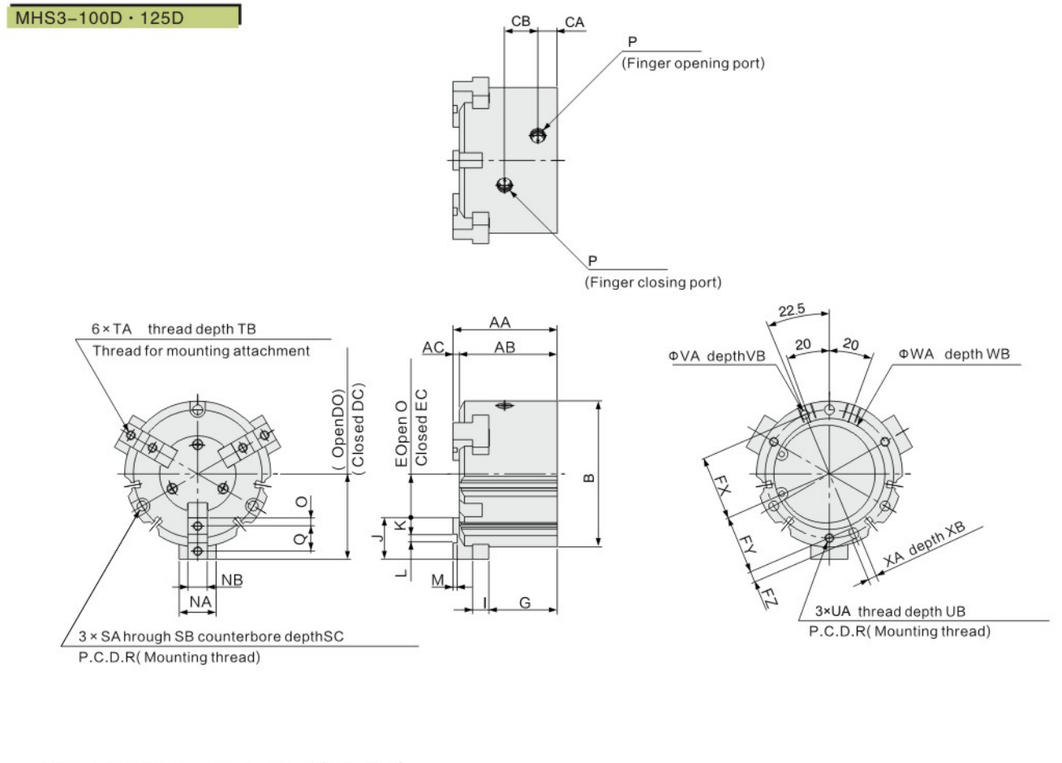
(mm)

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	M5×0.8	11	44	4.5	8	9	M4×0.7	8	M4×0.7	6	$3H9^{+0.025}_{0}$	3	$3.4H9^{+0.062}_{0}$	2	$3H9^{+0.025}_{0}$	3	6
MHS3–40D	4.5	M5×0.8	12	53	5.5	9.5	9	M4×0.7	8	M5×0.8	7.5	$4H9^{+0.030}_{0}$	4	$4.2H9^{+0.062}_{0}$	2	$4H9^{+0.030}_{0}$	4	8
MHS3–50D	5	M5×0.8	14	62	5.5	9.5	12	M5×0.8	10	M5×0.8	10	$4H9^{+0.030}_{0}$	4	$5.2H9^{+0.074}_{0}$	2	$4H9^{+0.030}_{0}$	4	7
MHS3–63D	5.5	M5×0.8	17	76	6.6	11	14	M5×0.8	10	M6×1	9	$5H9^{+0.030}_{0}$	5	$6.5H9^{+0.074}_{0}$	2.5	$5H9^{+0.030}_{0}$	5	7.5
MHS3–80D	6	Rc1/8(G1/8, NPT1/8)	20	95	6.6	11	19	M6×1	12	M6×1	12	$6H9^{+0.030}_{0}$	6	$8.2H9^{+0.087}_{0}$	3	$6H9^{+0.030}_{0}$	6	9

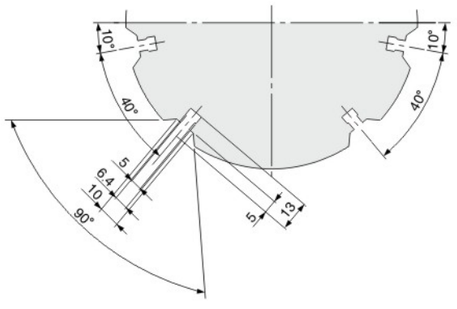
Dimensions (mm)

MHS3-100D · 125D

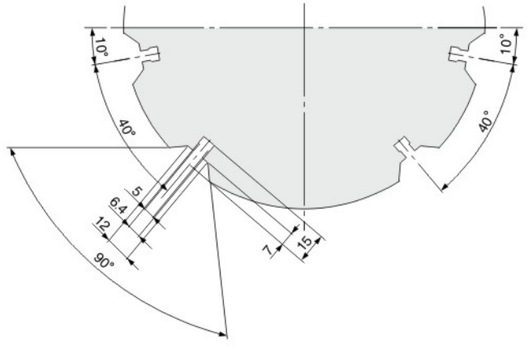


Auto switch mounting groove dimensions (4 locations)

MHS3-100D



MHS3-125D



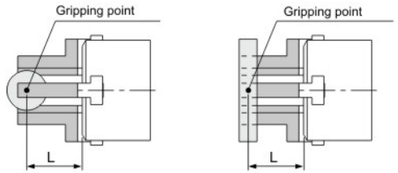
(mm)

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	Rc1/4(G1/4, NPT1/4)	23	118	9	14	21	M8×1.25	16	M8×1.25	16	$8H9^{+0.036}_{0}$	6	$10.2H9^{+0.087}_{0}$	4	$8H9^{+0.036}_{0}$	6
MHS3–125D	10.5	Rc3/8(G3/8, NPT3/8)	31	148	11	17.5	34	M10×1.5	20	M10×1.5	20	$10H9^{+0.036}_{0}$	8	$13.0H9^{+0.100}_{0}$	6	$10H9^{+0.036}_{0}$	8

Gripping Point

● The workpiece gripping point distance should be within the gripping force ranges given for each pressure in the effective gripping force graphs below.
● If operated with the workpiece gripping point beyond the indicated ranges, an excessive offset load will be applied to the sliding section of the fingers, which can have an adverse effect on the service life of the product.

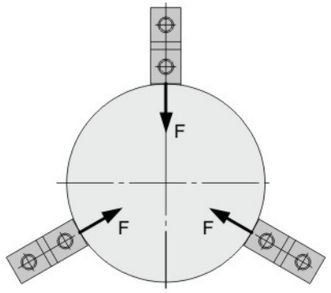


L: Gripping point distance

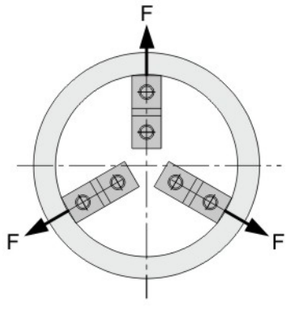
Effective Gripping Force

● Indication of effective gripping force

The effective gripping force shown in the graphs to the right is expressed as F, which is the thrust of one finger when all 3 of the fingers and attachments are in full contact with the workpiece as shown in the figure below

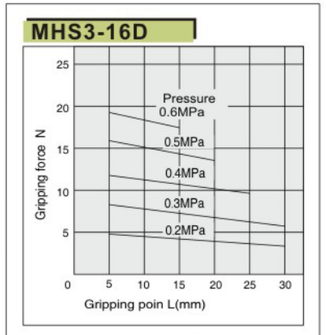


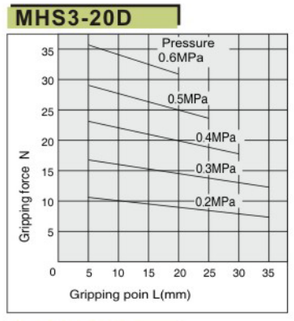
External grip

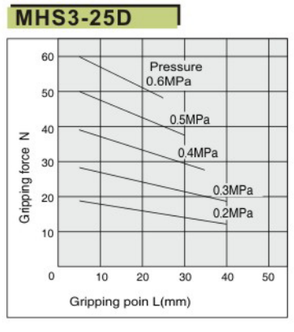


Internal grip

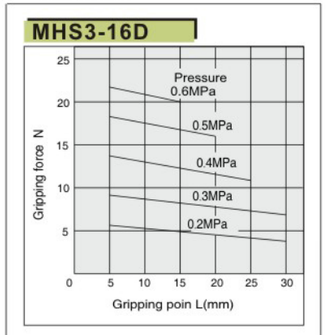
External Grip

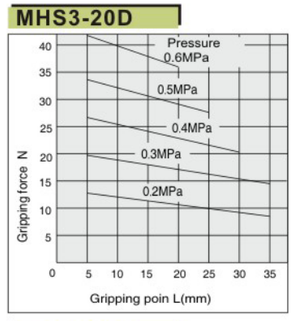


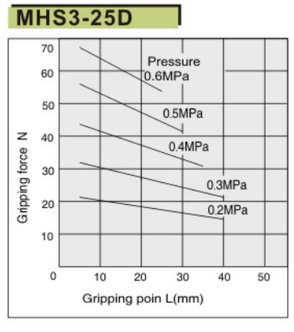




Internal Grip



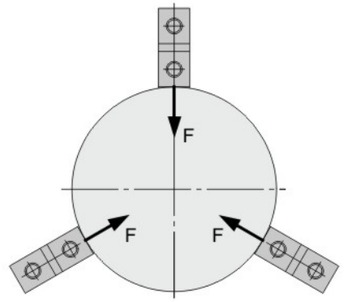




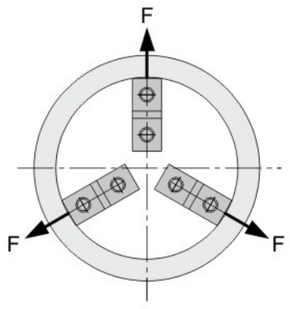
Effective Gripping Force

● Indication of effective gripping force

The effective gripping force shown in the graphs to the right is expressed as F, which is the thrust of one finger when all 3 of the fingers and attachments are in full contact with the workpiece as shown in the figure below

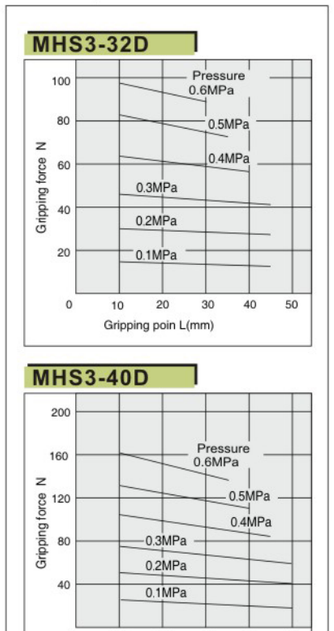


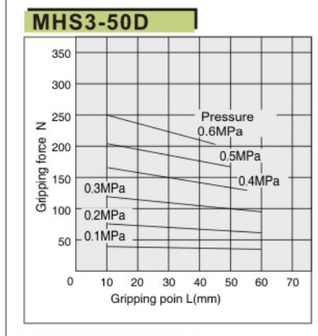
External grip

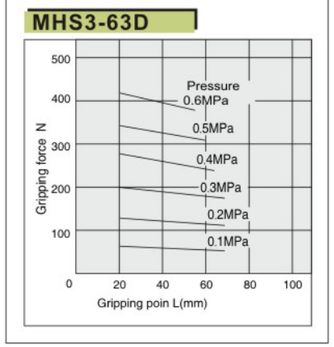


Internal grip

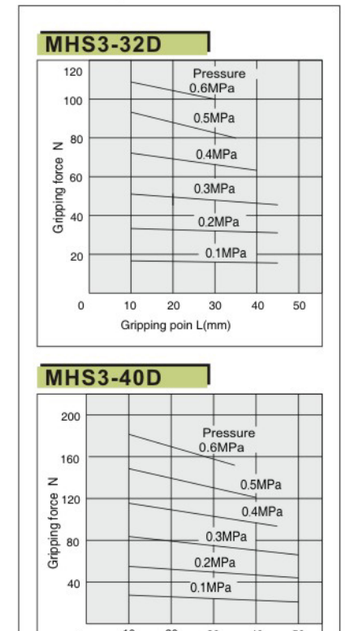
External Grip

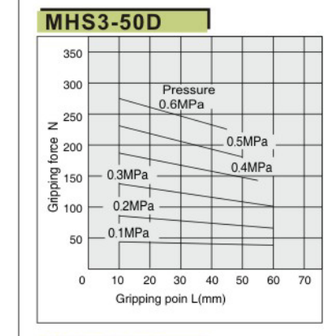


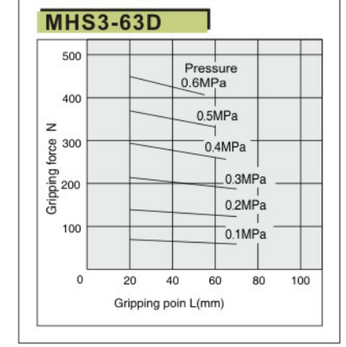




Internal Grip



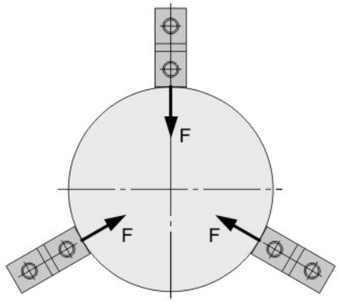




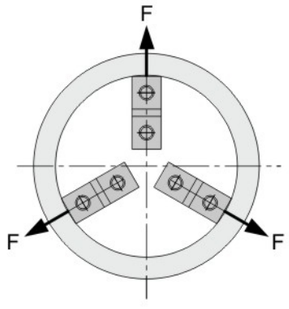
Effective Gripping Force

● Indication of effective gripping force

The effective gripping force shown in the graphs to the right is expressed as F, which is the thrust of one finger when all 3 of the fingers and attachments are in full contact with the workpiece as shown in the figure below



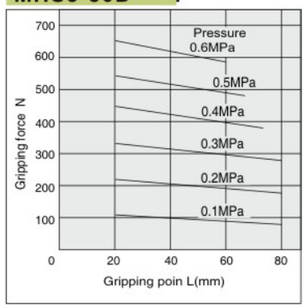
External grip



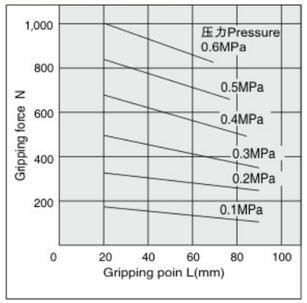
Internal grip

External Grip

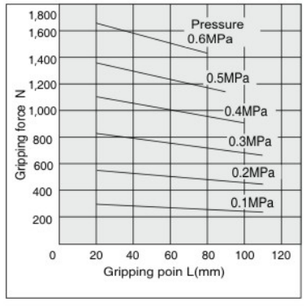
MHS3-80D



MHS3-100D

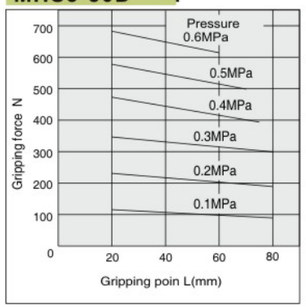


MHS3-125D

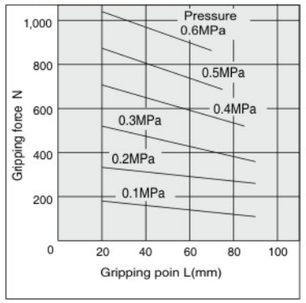


内径夹持力Internal Grip

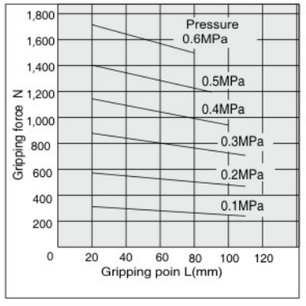
MHS3-80D



MHS3-100D

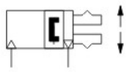


MHS3-125D

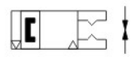


Symbol

Double acting:Internal grip



Double acting:External grip



Standard Specification

Model		MHS4-16D	MHS4-20D	MHS4-25D	MHS4-32D	MHS4-40D	MHS4-50D	MHS4-63D
Bore size (mm)		16	20	25	32	40	50	63
Fluid		Air						
Operating pressure MPa		0.2~0.6			0.1~0.6			
Ambient and fluid temperature ℃		-10~60						
Repeatability mm		±0.01						
Max. operating frequency c.p.m		120			60			
Lubrication		Not required						
Action		Double acting						
Note1) Effective gripping force (N) at 0.5 MPa	External grip	10	19	31	55	88	140	251
	Internal grip	12	21	35	61	97	153	268
Opening/Closing stroke (dia.) mm		4	4	6	8	8	12	16
Weight g		66	110	154	300	390	590	1,095

Note 1) Values for Φ16 to Φ25 are with gripping point L = 20 mm, for Φ32 to Φ63 with gripping point L = 30 mm.

Ordering code

MHS4 - 20 D - M9BW □

Number of fingers

4	4 fingers

Bore size

16	16mm
20	20mm
25	25mm
32	32mm
40	40mm
50	50mm
63	63mm

Operation mode

D	Double-acting

Auto switch

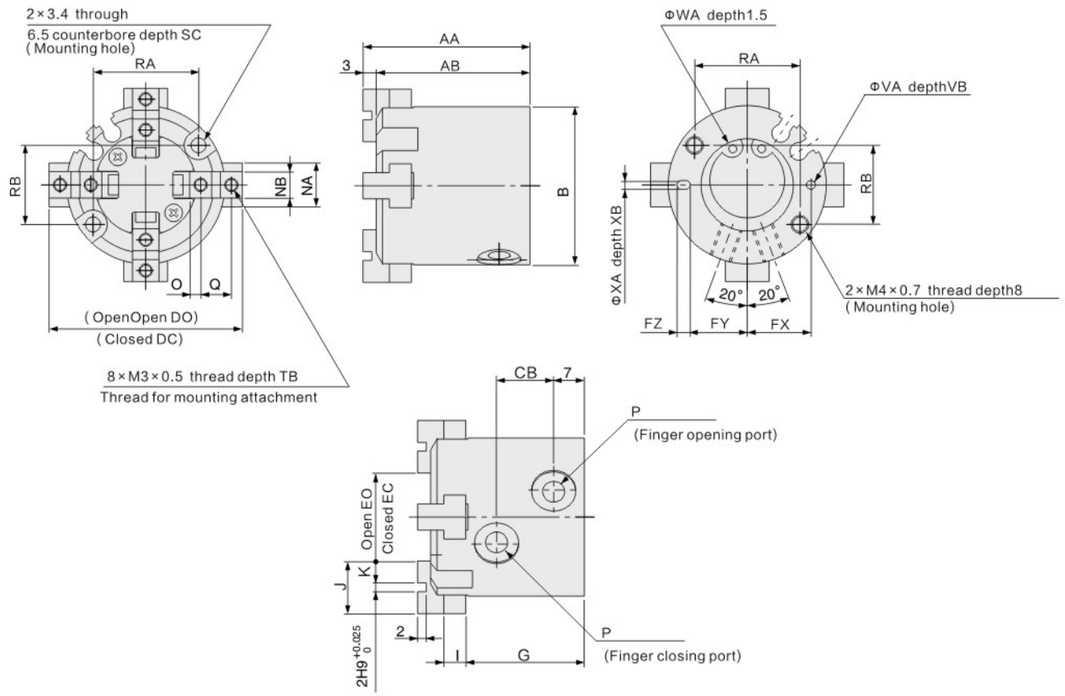
Nil	Without auto switch (Built-in magnet)

Number of auto switches

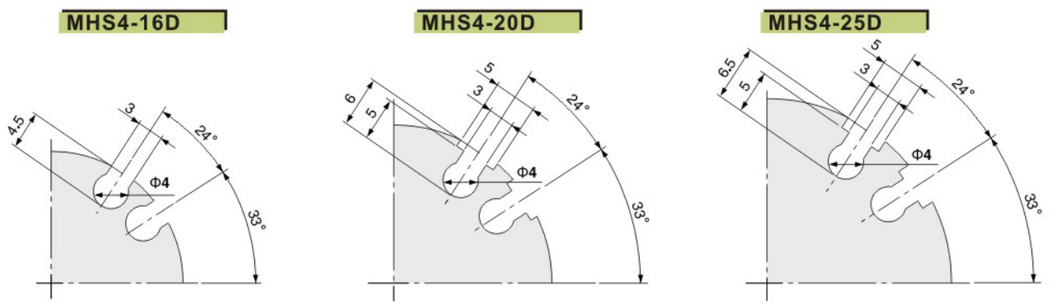
Nil	2 pcs.
S	1 pcs.

Dimensions (mm)

MHS4-16D~25D



Auto switch mounting groove dimensions (2 locations)



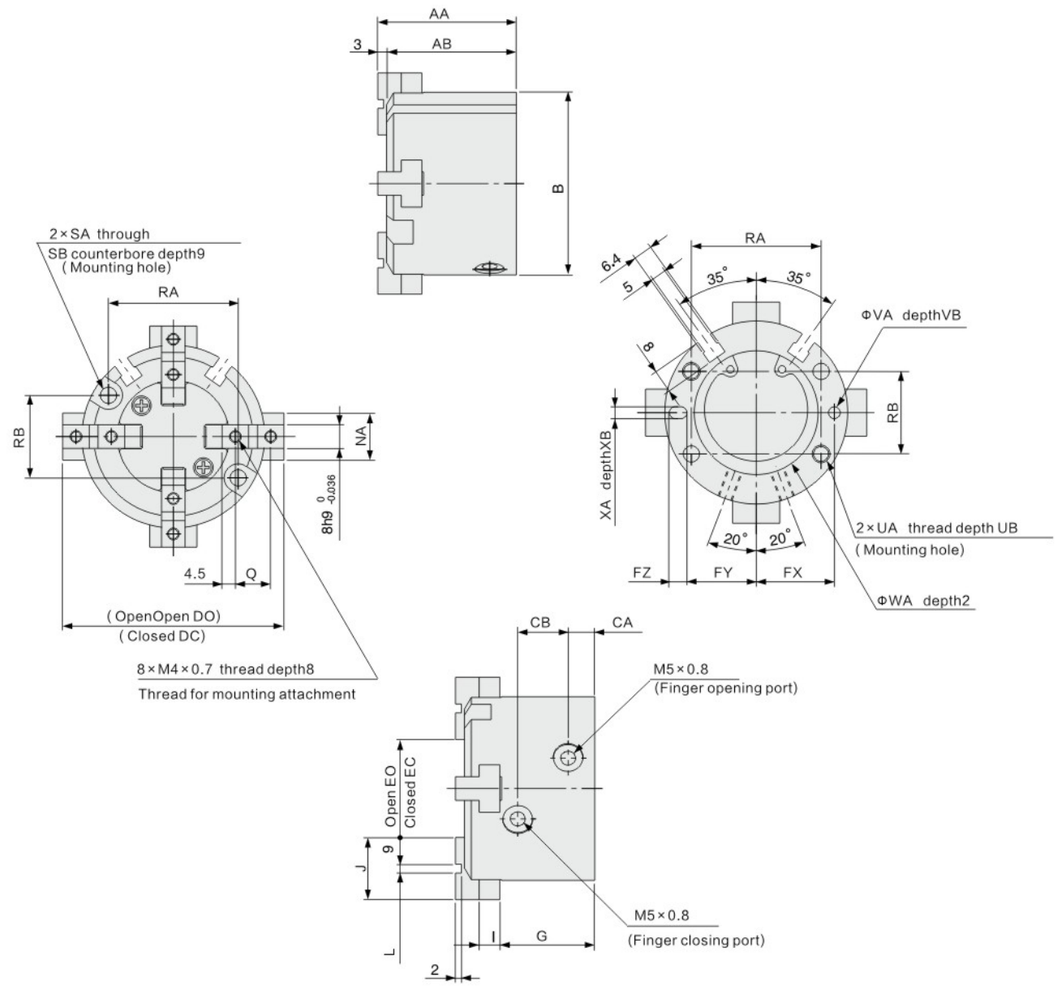
(mm)

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	M3×0.5	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	M5×0.8	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	M5×0.8	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 (mm)

MHS4-32D · 40D



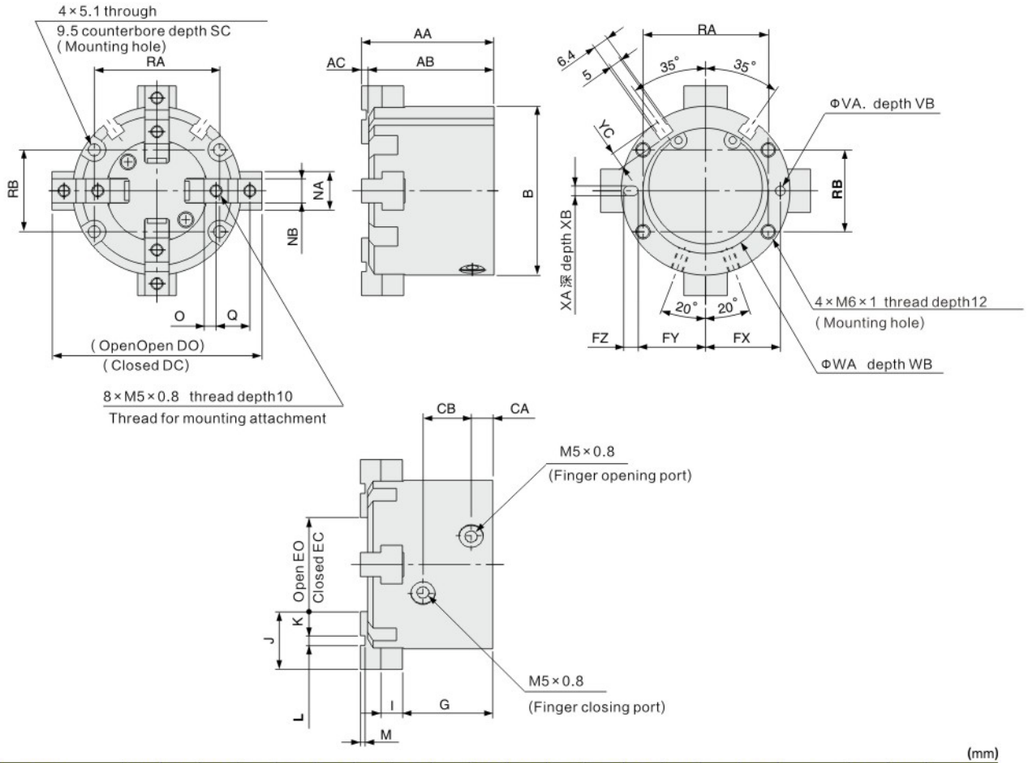
(mm)

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 +0.025 0	14	11	38	25	4.5
MHS4–40D	47	44	62	9	17	66	74	24	32	26.5	235	6	32	7	21	3H9 +0.025 0	16	12	44	28	5.5

Model	SB	UA	UB	VA	VB	WA	XA	XB
MHS4–32D	8	M5×0.8	10	3H9 +0.025 0	3	34H9 +0.062 0	3H9 +0.025 0	3
MHS4–40D	9.5	M6×1	12	4H9 +0.030 0	4	42H9 +0.062 0	4H9 +0.030 0	4

Dimensions (mm)

MHS4–50D · 63D

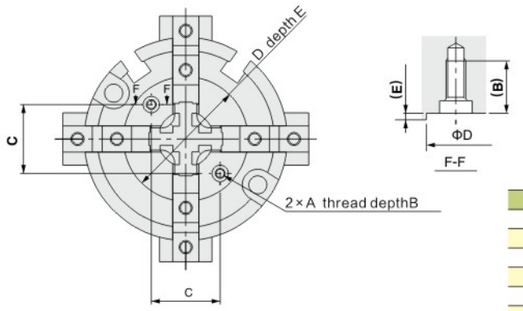


(mm)

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

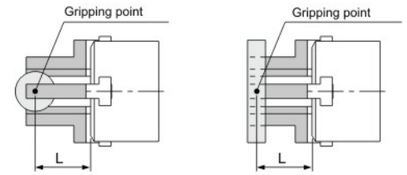
MHS4 Series Detailed Dimensions of Mounting Portion of End Plate



Model	A	B	C	D	E
MHS4–16D	M2×0.4	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		5.2	18	$32^{+0.1}_{0}$	0.8
MHS4–40D	M3×0.5	8	21	$38^{+0.1}_{0}$	1
MHS4–50D			24	$42^{+0.1}_{0}$	
MHS4–63D			32	$54^{+0.1}_{0}$	

Gripping Point

● The workpiece gripping point distance should be within the gripping force ranges given for each pressure in the effective gripping force graphs below.
● If operated with the workpiece gripping point beyond the indicated ranges, an excessive offset load will be applied to the sliding section of the fingers, which can have an adverse effect on the service life of the product.

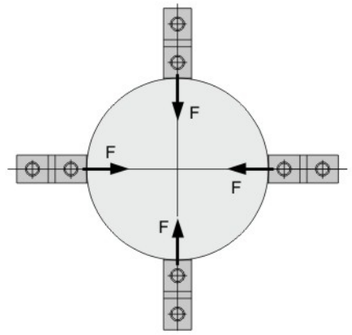


L: Gripping point distance

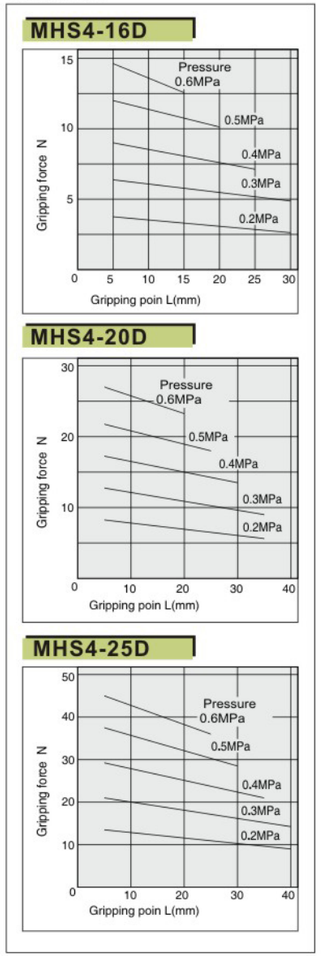
Effective Gripping Force

● Indication of effective gripping force

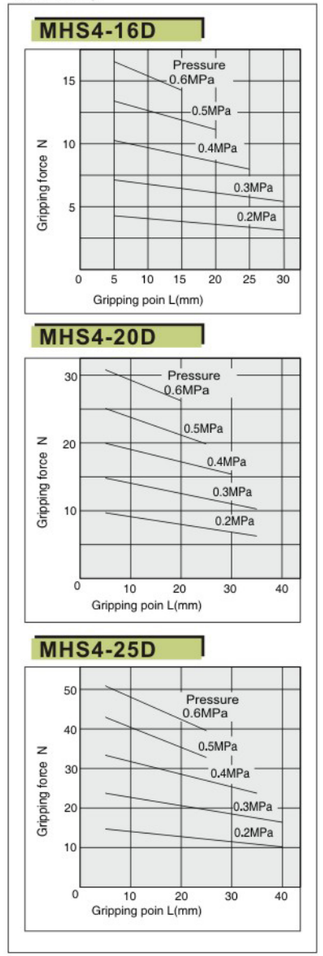
The gripping force shown in the tables represents the gripping force of one finger when all fingers and attachments are in contact with the workpiece.
The gripping force of MHS4 series is the same as MHS2 series while one pair of opposite fingers is used to grip the workpiece and the other pair of fingers is used for positioning.



External Grip



Internal Grip



Effective Gripping Force

● Indication of effective gripping force

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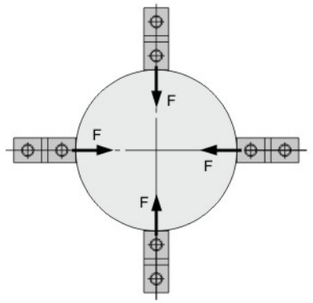
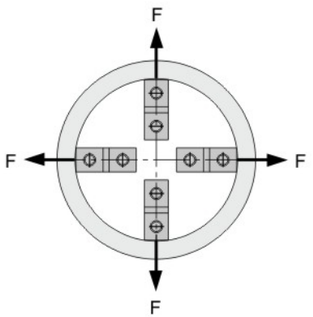
The gripping force shown in the tables represents the gripping force of one finger when all fingers and attachments are in contact with the workpiece. The gripping force of MHS4 series is the same as MHS2 series while one pair of opposite fingers is used to grip the workpiece and the other pair of fingers is used for positioning.

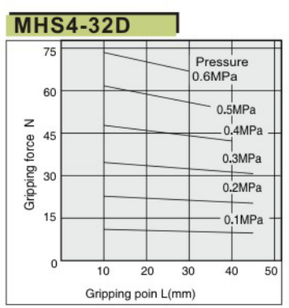


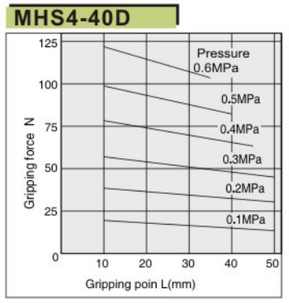
External grip

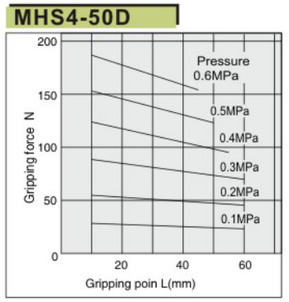


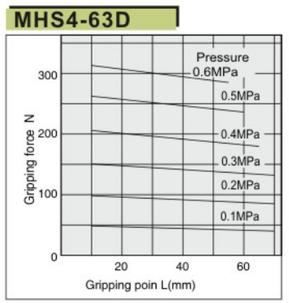
Internal grip

External Grip

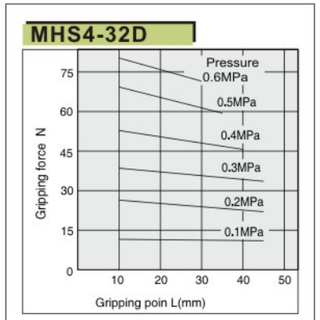


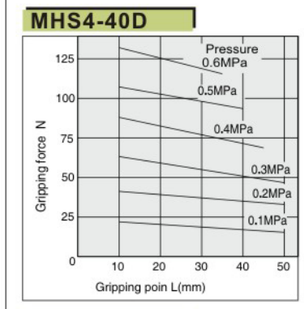


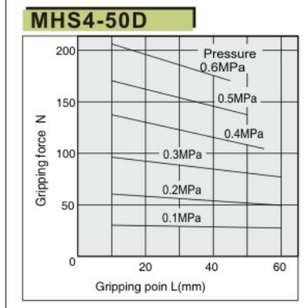


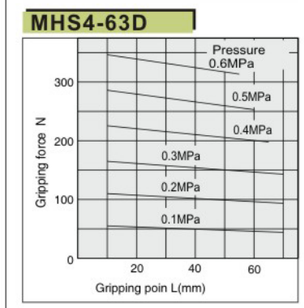


Internal Grip









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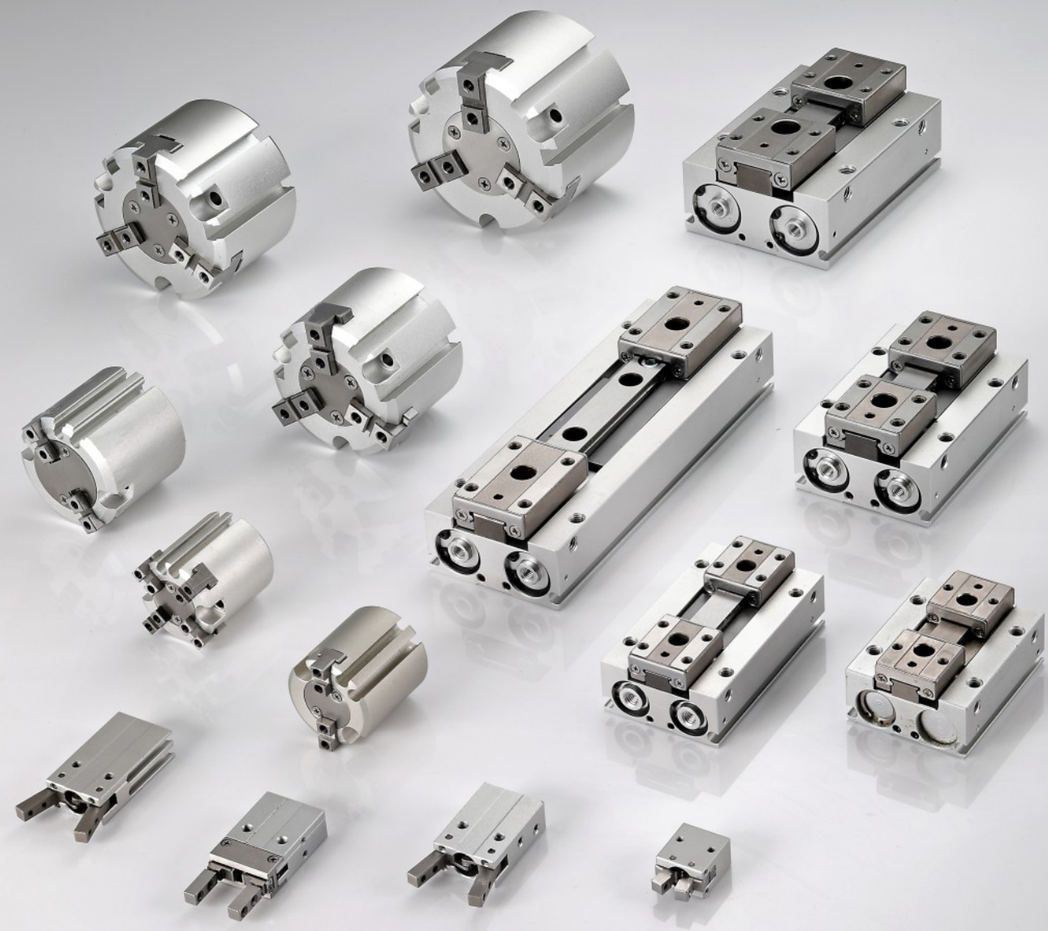

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