

(C)KH(L) Series



◆ Compact and lightweight

Compact and lightweight thanks to the link mechanism.

◆ Easy centering

Thanks to the parallel shift, centering is easy and better general versatility compared to the rotary type.

◆ Long life

Long life because a ring bearing is used for the sliding part.

◆ Same main body dimensions (C)KHL series

The main body dimensions are same as those of the KHL without a switch, so they are compatible.

◆Switch position adjustment available
(C)KHL series

The switch position adjustment is available. Therefore, you can check the lever opening/closing and adjust the workpiece diameter check by fine adjustment.

◆It has the successive feature of the KH series. Also, its opening/closing stroke is the long type. <(C)KHL series>

➤ 2 faces have a port. Select the one you use according to the mounting condition. (C)KHL series

Model Code No.

C KHL - 16

スイッチ形式

C: With Switch

No code: Without Switch

Bore Size

16 : 16mm

20 : 20mm

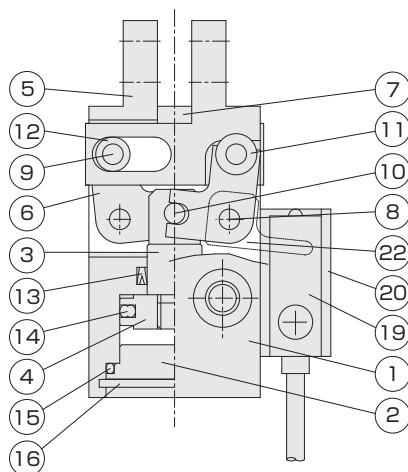
32 : 32mm (Long Stroke only)

Series Name

KH: Standard Stroke

KHL: Long Stroke

Internal Structure Diagram



Parts List

NO	Name	Material
1	Main Body	Aluminum Alloy
2	Head Cover	Aluminum Alloy
3	Piston Rod	Carbon Steel
4	Piston	Aluminum Alloy
5	Lever	Carbon Steel
6	Action Lever	Carbon Steel
7	Rail	Carbon Steel
8	Fulcrum Pin	Carbon Steel
9	Slide Pin	Carbon Steel
10	Rod Pin	Carbon Steel
11	Rail Ring	Carbon Steel
12	Lever Ring	Carbon Steel
13	Rod Packing	NBR
14	Piston Packing	NBR
15	O Ring	NBR
16	Locating Snap Ring	Hard Steel
19	Switch	
20	Switch Mounting Plate	Resin
22	Detection Plate	Hard Steel

Specifications

Fluid	Air
Maximum Operating Pressure [MPa]	0.7
Proof Pressure [MPa]	1.05
Operating Temperature [°C]	0~60 (No Freezing)
Lubrication	Not Required (Required for sliding parts of the machine)
Pipe Bore	M5×0.8
Maximum Operating Cycle [Cycle/min]	120(KHL=80)
Repeat Accuracy [mm]	±0.1
Applicable Switch	GX-F8A(Only CKH(L)) See P. 416

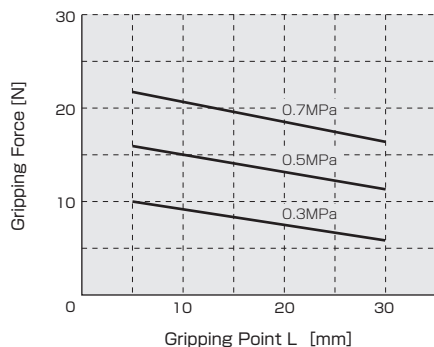
Action Type	Model	Bore Size [mm]	Minimum Operating Pressure [MPa]	Opening/Closing Stroke [mm]	Gripping Force [N]		Outside Dimensions (T x W x L) [mm]	Product Mass [g]
					Close	Open		
Double Acting	KH-16	16	0.2	5	14	18	25×25×42.5	104
	CKH-16						25×35×42.5	119
	KHL-16	16	0.2	10	14	18	25×32×49.5	142
	CKHL-16						25×42×49.5	157
	KH-20	20	0.2	6	19	25	32×32×51	212
	CKH-20						32×42×51	227
	KHL-20	20	0.2	12	19	25	32×50×57	273
	CKHL-20						32×60×57	289
	KHL-32	32	0.2	16	78	90	40×50×69.5	513
	CKHL-32						40×60×69.5	529

Note) The grip force of $\phi 16$ is an effective value when the grip point L is 20 mm and the pressure is 0.5 MPa.

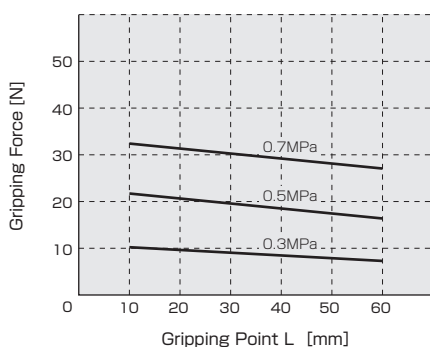
The grip force of $\phi 20$ and $\phi 32$ is an effective value when the grip point L is 30 mm and the pressure is 0.5 MPa.

■ Effective Gripping Force (Closing Force)

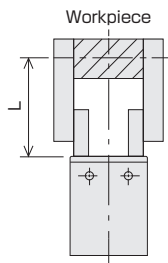
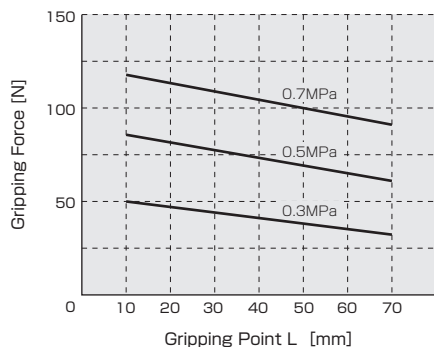
KH -16
KHL-16



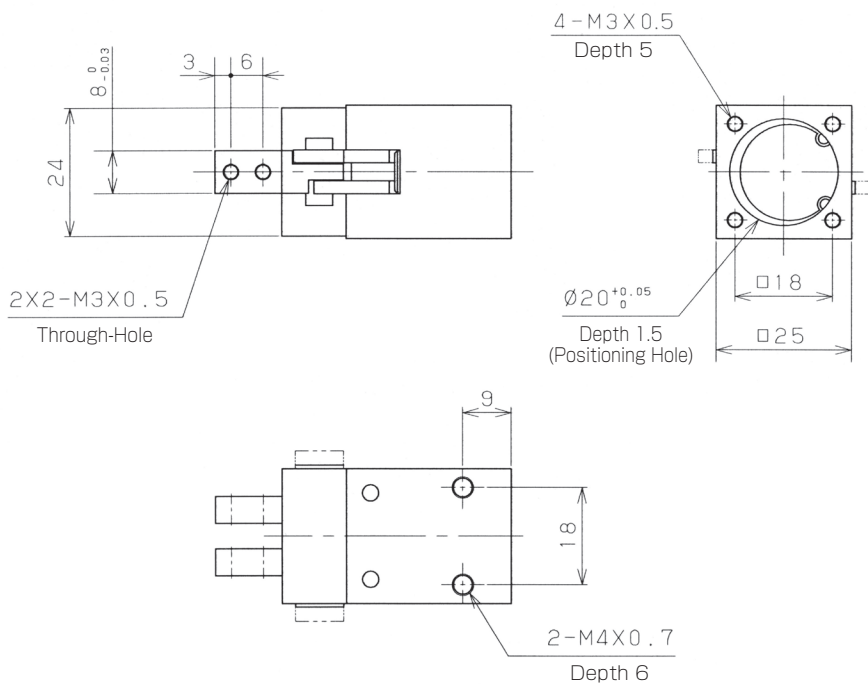
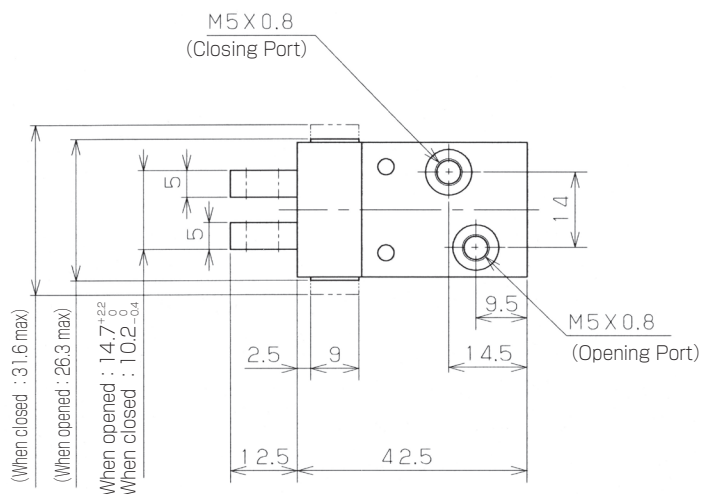
KH -20
KHL-20



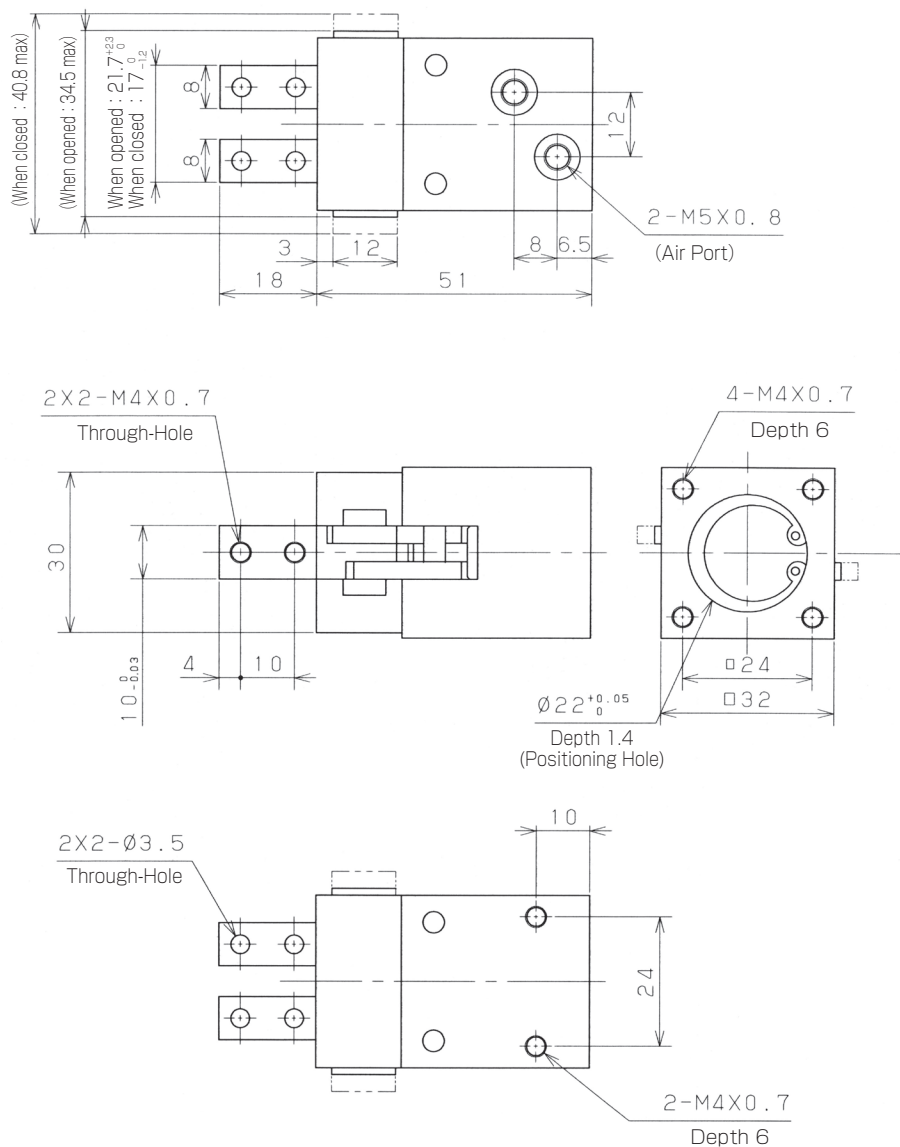
KHL-32



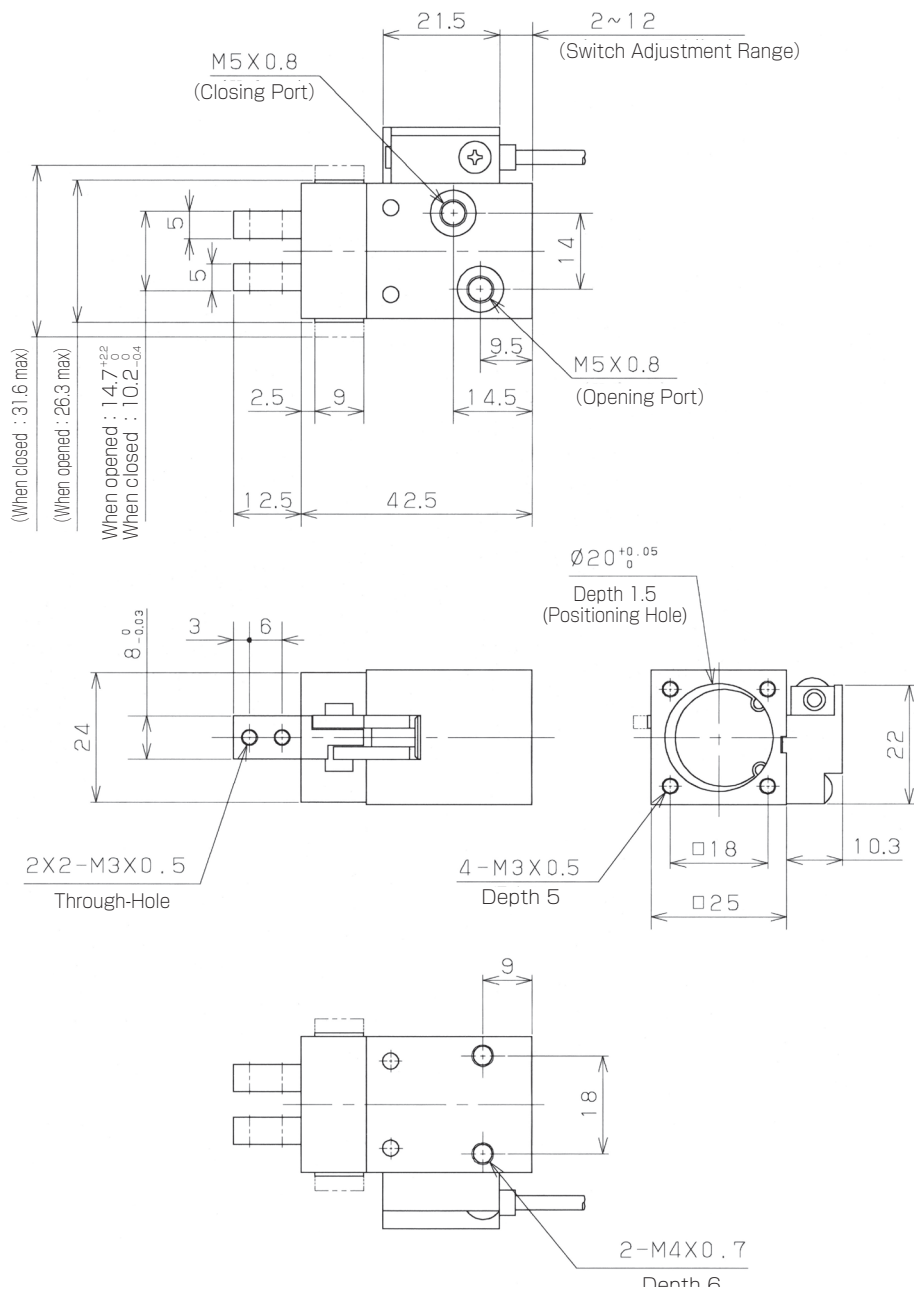
■ Dimensions KH-16



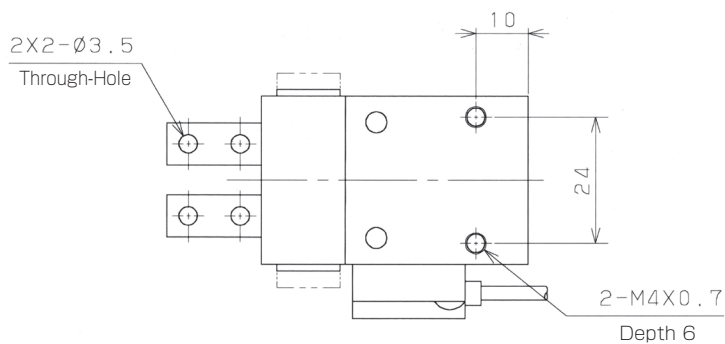
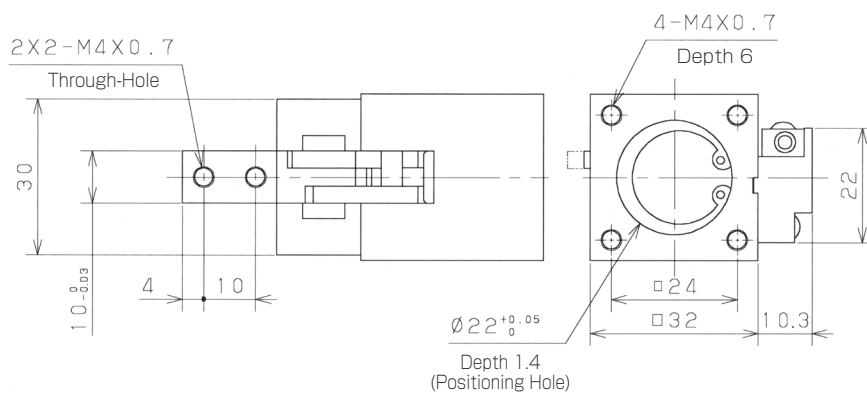
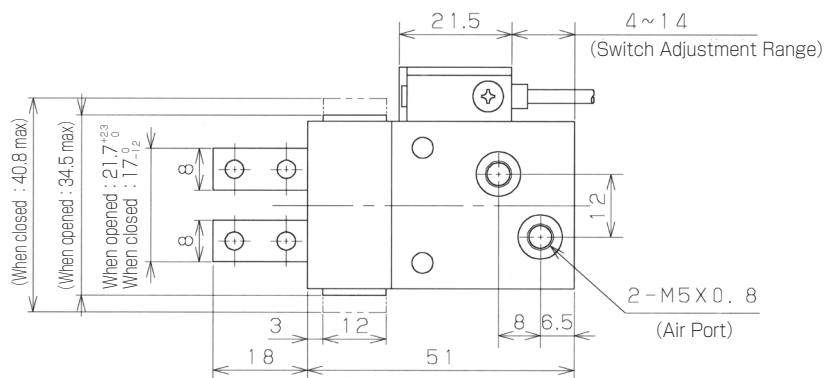
Dimensions KH-20



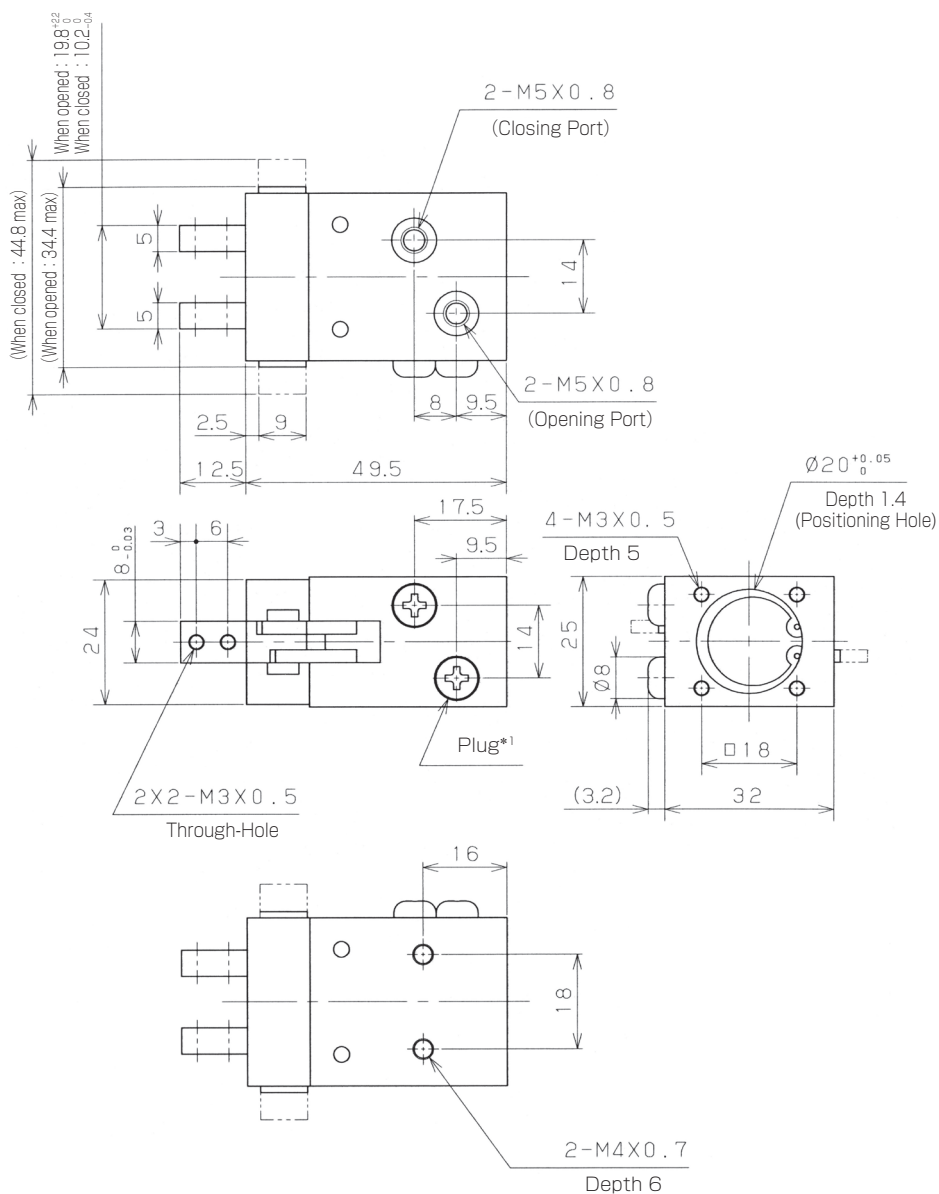
Dimensions CKH-16



Dimensions CKH-20

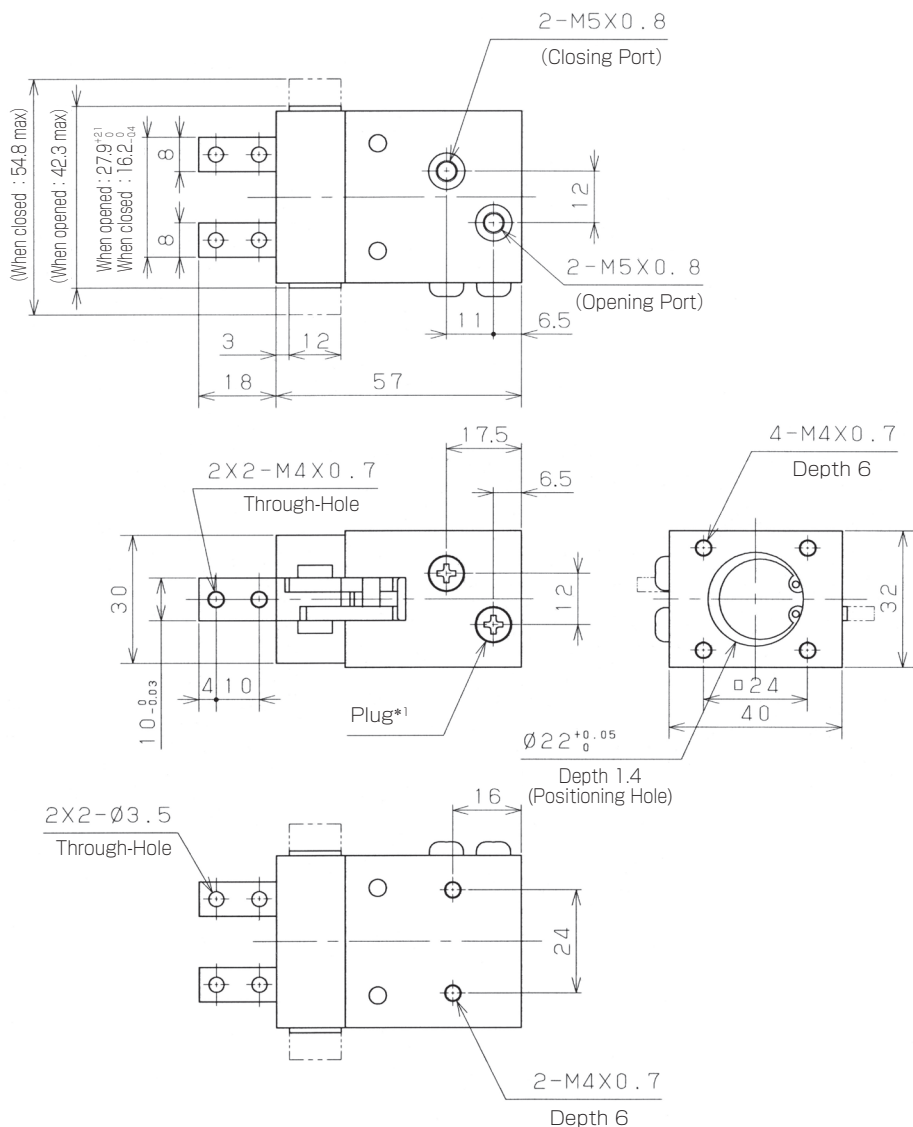


Dimensions KHL-16



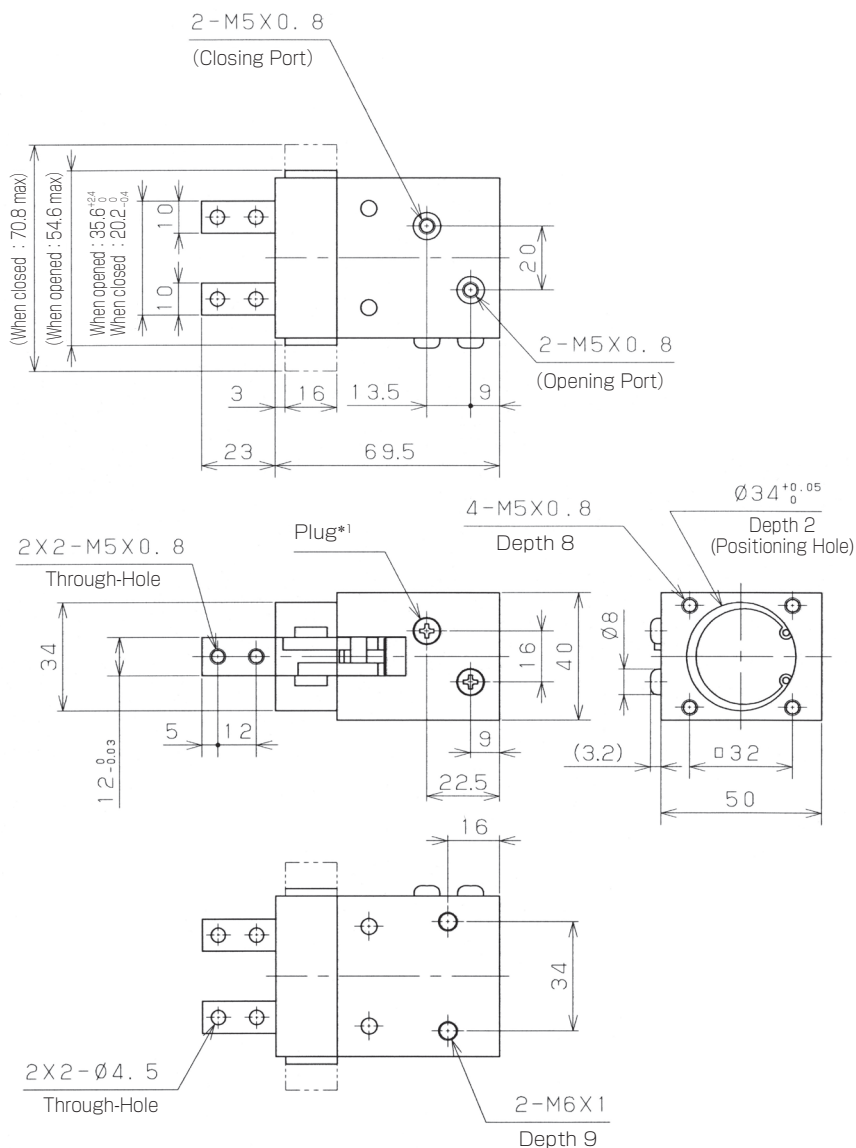
*1) Two faces have an air port. Select the one you use according to the mounting condition.

Dimensions KHL-20



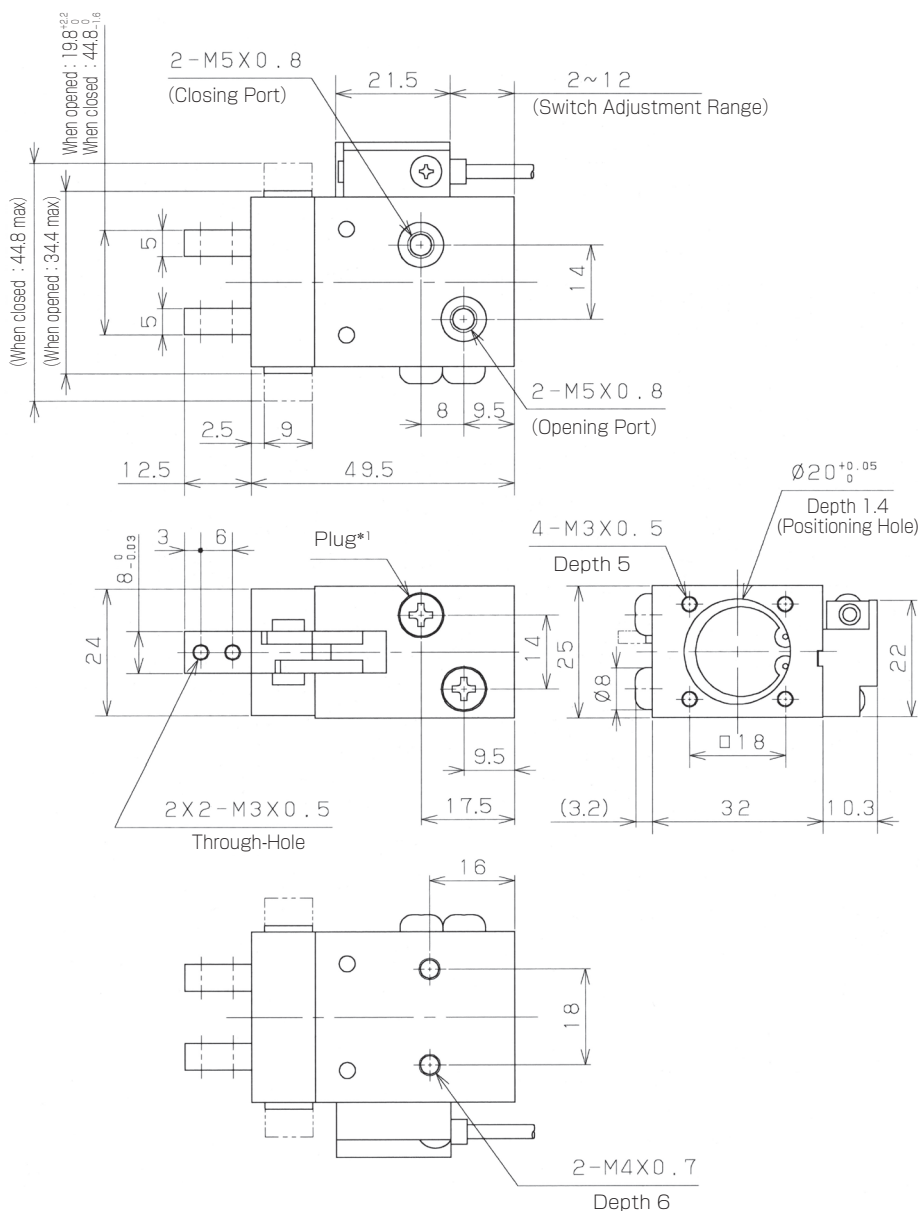
*1) Two faces have an air port. Select the one you use according to the mounting condition.

Dimensions KHL-32

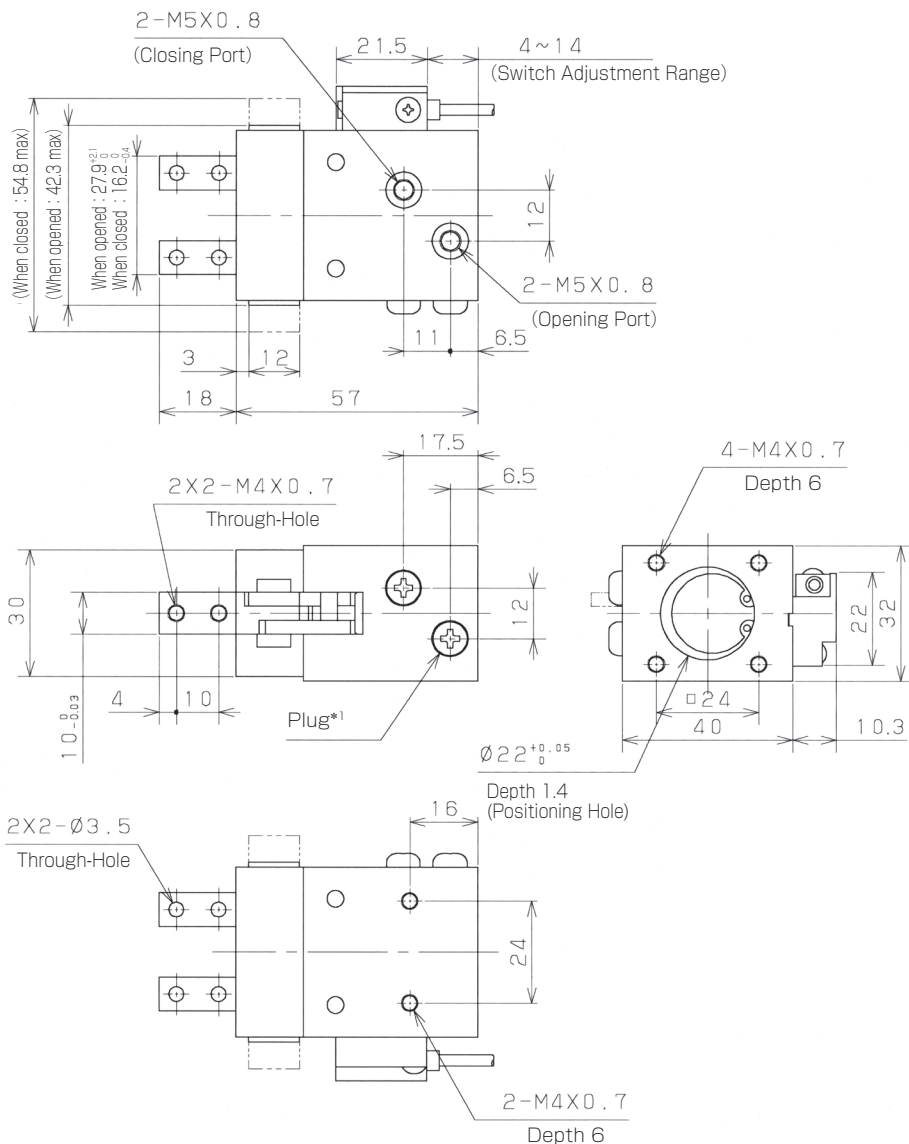


*1) Two faces have an air port. Select the one you use according to the mounting condition.

Dimensions CKHL-16

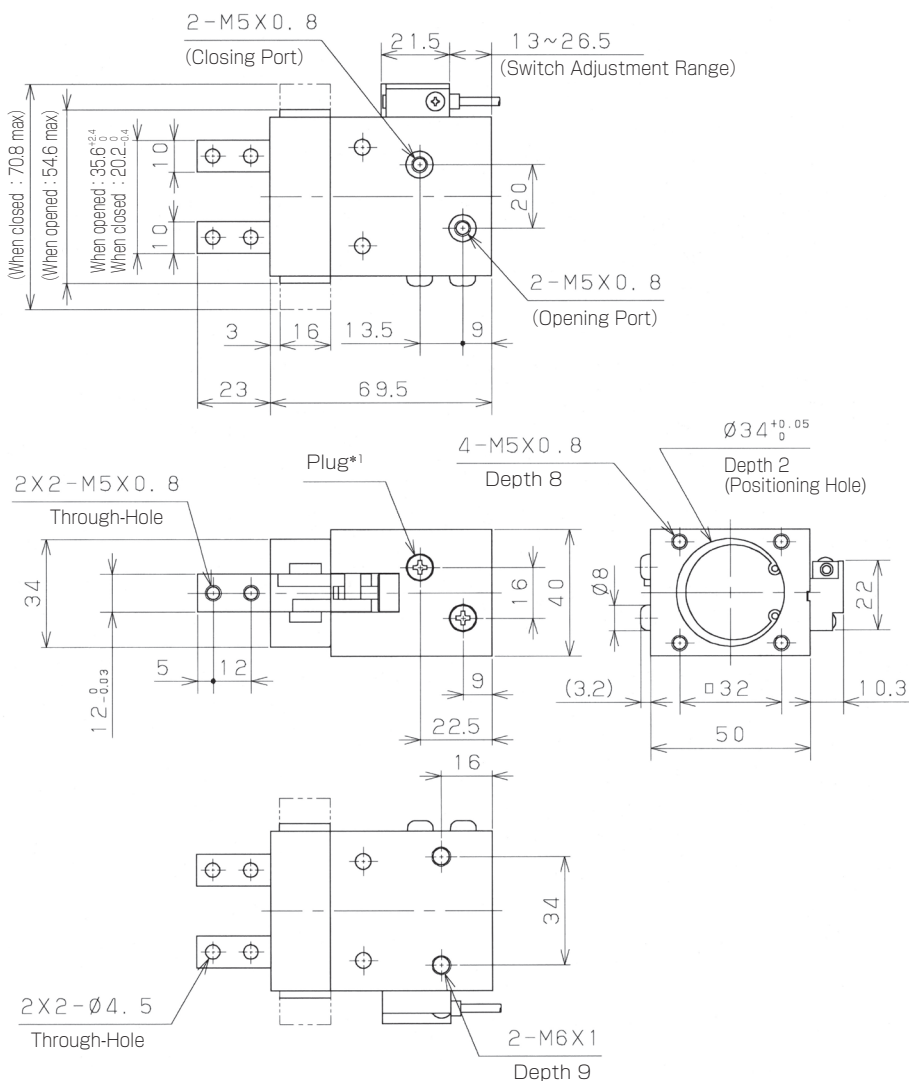


Dimensions CKHL-20



*1) Two faces have an air port. Select the one you use according to the mounting condition.

Dimensions CKHL-32



*1) Two faces have an air port. Select the one you use according to the mounting condition.