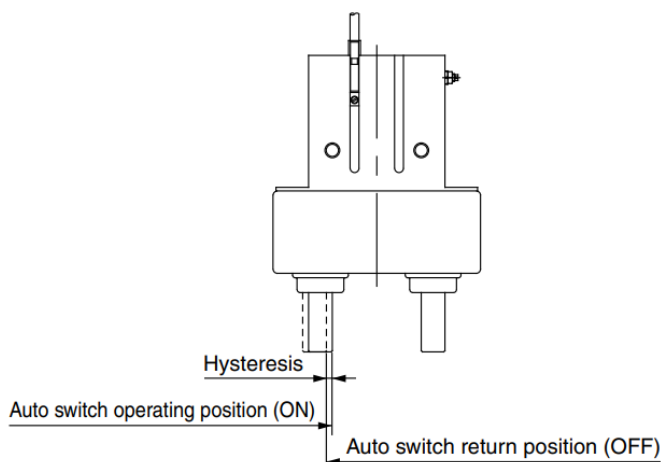


6. Auto Switch Hysteresis

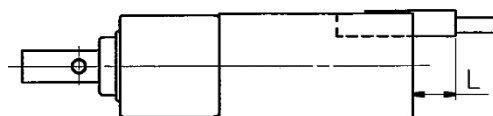
Auto switches have hysteresis similar to micro switches. Use the table below as a guide when adjusting auto switch positions, etc.



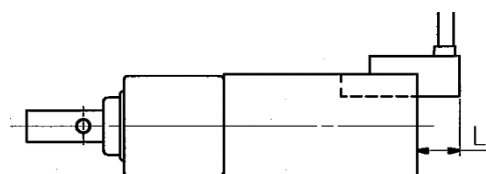
Auto switch	Max.hysteresis(mm)
	D-M9□(v) D-M9□A(v) M9□W(v)
Air gripper	
MHK□2-12	0.1
MHK□2-16	0.1
MHK□2-20	0.3
MHK□2-25	0.2

7. Protrusion of Auto Switch from Edge of Body

- The amount of auto switch protrusion from the body's end surface is as shown in the table below.
- Use the table as a guideline for mounting.



When using auto switch D-M9□



When using auto switch D-M9□V

Maximum pop-out amount of auto switch

Note) There is no protrusion if no values are entered in the table.

Air gripper	Finger position	Lead wire type	In-line electrical entry type		Perpendicular electrical entry type	
		Auto switch Model	D-M9□ D-M9□W	D-M9□A	D-M9□V D-M9□WV	D-M9□AV
MHK2-12□	Open		—	—	—	—
	Closed		3	5	—	3
MHK2-16□	Open		—	—	—	—
	Closed		3	5	1	3
MHK2-20□	Open		—	—	—	—
	Closed		1	3	—	1
MHK2-25□	Open		—	—	—	—
	Closed		2	4	—	2
MHKL2-12□	Open		—	—	—	—
	Closed		3	5	—	3
MHKL2-16□	Open		—	—	—	—
	Closed		3	5	1	3
MHKL2-20□	Open		—	—	—	—
	Closed		1	3	—	1
MHKL2-25□	Open		—	—	—	—
	Closed		1	3	—	1

8. Auto Switch Installation Examples and Mounting Positions

Detection when Gripping Exterior of Workpiece

No.	Description	Material	Note
16	Lod packing	NBR	
17	Piston packing	NBR	
18	Gasket	NBR	
19	Gasket	NBR	
20	Dust cover	CR	
		FKM	
		Silicone rubber	

MHK2 replacement parts

MHK2 Replacement parts

Description			MHK2-12□	MHK2-16□	MHK2-20□	MHK2-25□	Main parts
Packing set			MHK12-PS	MHK16-PS	MHK20-PS	MHK25-PS	⑬⑭⑮⑯
Piston ASSY			MHK-A1201	MHK-A1601	MHK-A2001	MHK-A2501	②⑥⑦
Cam			P3318103	P3318203	P3318303	P3318403	③
Finger	Material	Carbon steel	P3318104	P3318204	P3318304	P3318404	④
		Stainless steel SUS304	P3318104-1	P3318204-1	P3318304-1	P3318404-1	
Needle ASSY			MHK-A1206				⑧
Dust cover	Material	CR	MHK2-J12	MHK2-J16	MHK2-J20	MHK2-J25	⑳
		FKM	MHK2-J12F	MHK2-J16F	MHK2-J20F	MHK2-J25F	
		Silicone rubber	MHK2-J12S	MHK2-J16S	MHK2-J20S	MHK2-J25S	

MHKL2 replacement parts

MHKL2 replacement parts

Description			MHKL2-12□	MHKL2-16□	MHKL2-20□	MHKL2-25□	Main parts
Packing set			MHK12-PS	MHK16-PS	MHK20-PS	MHK25-PS	⑬⑭⑮⑯
Piston ASSY			MHK-A1201	MHK-A1601	MHK-A2001	MHK-A2501	②⑥⑦
Cam			P3318111	P3318211	P3318311	P3318411	③
Finger	Material	Carbon steel	P3318112	P3318212	P3318312	P3318412	④
		Stainless steel SUS304	P3318112-1	P3318212-1	P3318312-1	P3318412-1	
Needle ASSY			MHK-A1206				⑧
Dust cover	Material	CR	MHKL2-J12	MHKL2-J16	MHKL2-J20	MHKL2-J25	⑳
		FKM	MHKL2-J12F	MHKL2-J16F	MHKL2-J20F	MHKL2-J25F	
		Silicone rubber	MHKL2-J12S	MHKL2-J16S	MHKL2-J20S	MHKL2-J25S	

*Order 2 pieces per one finger unit.

Replacement part/Grease pack part no.: MH-G01 (30 g)