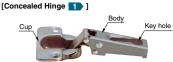
CONCEALED HINGE 100 SERIES

Part Names



TORQUE HINGES

DAMPER HINGES

LIFT ASSIST HINGES

DETENT HINGES

CONCEALED HINGES

BUTT HINGES

PIANO HINGES STEP

HINGES LIFT-

OFF HINGES PIVOT

HINGES SPRING

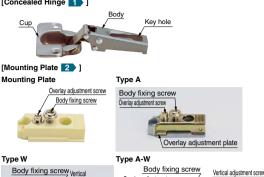
HINGES CLEAN

ROOM HINGES

HINGES FOR ALUMINIUM FRAME DROP

HINGES GLASS DOOR HINGES

SPECIAL HINGES



Body fixing screw Overlay adjustment screw

Overlay adjustment plate Vertical adjustment plate

System type

Body

Install to mounting plate

Cut out a ϕ 35 (or ϕ 26, ϕ 40) hole on the door, and install concealed hinge.

Key hole

Cup

When fixing to the mounting plate, insert body fixing screw in this hole and tighten.

Mounting plate

First install to the side board, then insert and tighten the

Body fixing screw

Used to fix the body to the mounting plate.It can also be used for door depth adjustment.

Overlay adjustment screw

Used to adjust overlay of door.

Overlay adjustment plate

(In case of type A or type A-W mounting plate) Turning overlay adjustment screw can adjust door overlay without affecting door depth and vertical adjustment.

Vertical adjustment screw

(In case of type W or type A-W mounting plate) Used for vertical adjustment of door.

Vertical adjustment plate

(In case of type W or type A-W mounting plate) Turning door vertical adjustment screw can move the door vertically.

Spacer

Used for decreasing door overlay, or increasing door gap for inset type.

Suitable for Various Door Thickness

Overlay adjustment plate

[Spacer 3]

Standard type

100 Series are suitable for door thickness 15mm~34mm. Besides, performance can be maximised by using locus chart.



[All Stainless Steel]

The world's first stainless steel (SUS304) concealed hinge. Stainless steel features superior corrosion resistance, suitable for damp places like combined kitchen and washroom, etc. It can also be used for fields such as medical, laboratory and ship, etc.

[Satin Chrome]

Superior Corrosion Resistance

Plated type is highly corrosion-resistant thanks to satin chrome finish of main metal parts. And metallic silver colour makes high-tech furniture more eye-catching. (Nickel plating type also available by made to order)

Full Range of Mounting Plates

Nearly 20 different mounting plates are available for 100 series to meet diversified installation requirements. Each one can be installed quickly, accurately and reliably,





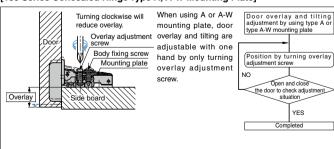


Kitchen equipment Medical warehouse Laboratory

<Main Purpose of Stainless Steel Concealed Hinge>

Easy and Fast Adjustment TYPE A, A-W MOUNTING PLATE

[100 Series Concealed Hinge Type A, A-W Mounting Plate]



Note) Be sure to use a manual screwdriver to fine tune adjustment screws within the adjustment range. Do not use a pneumatic, electric or rechargeable screwdriver, or excessive tightening torque may damage thread and cause malfunction.





TORQUE

DAMPER

HINGES

LIFT

ASSIST

DETENT

HINGES

How to Adjust

Door Adjustment by Using Type A or Type A-W Mounting Plate

[Type A]

100-02A-30, 100-03A, 100-04A-30, 100-04A-32-3, 100-06A, 100-P3A, 100-P4A-30

Depth Adjustment

Loosen the body fixing screw, move the door back and forth to select appropriate position, and then tighten the screw.

Overlay Adjustment | (Horizontal Adjustment)

Turning the overlay adjustment screw clockwise () to decrease and counterclockwise (to increase the overlay.

Operate with the body fixing screw tightened.

Tilting Adjustment

Turn the overlay adjustment screw. Operate with the body fixing screw tightened.

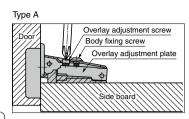
[Type A-W]

100-04A-W-30. 100-04A-W-30-2. 100-04A-W-32. 100-06AW

Depth Adjustment Overlay Adjustment Tilting Adjustment are the same as type A.

Vertical Adjustment

Loosen the vertical adjustment screw, move the door up and down to select appropriate position, and then tighten the screw.



Type A-W

Overlay adjustment screw

Body fixing screw

Vertical adjustment screw

Overlay adjustment plate

Overlay adjustment screw

Vertical adjustment screw

Body fixing screw

Overlay adjustment screw

Body fixing screw

Mounting plate

CONCEALED HINGES

BUTT HINGES

PIANO HINGES

STEP HINGES

LIFT-OFF HINGES

PIVOT HINGES

SPRING HINGES

CLEAN ROOM HINGES

HINGES FOR ALUMINIUM FRAME

DROP HINGES

GLASS DOOR HINGES

SPECIAL HINGES

Door Adjustment by Using Mounting Plate Other Than Type A and Type A-W

[100-01, 100-02-30, 100-03, 100-04-30, 100-06, 100-P6]

Depth Adjustment

Loosen the body fixing screw, move the door back and forth to select appropriate position, and then tighten the screw.

Overlay Adjustment (Horizontal Adjustment)

Loosen the body fixing screw first. Turn the overlay adjustment screw to determine appropriate position. Turning the overlay adjustment screw clockwise \bigcap to increase and counterclockwise \bigcap to decrease the overlay. Finally tighten the body fixing screw.

Tilting Adjustment

Loosen the body fixing screw first. Turn the overlay adjustment screw to determine appropriate position, and finally tighten the body fixing screw securely.

[Type W]

100-04W-30

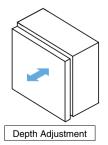
Depth Adjustment Overlay Adjustment Tilting Adjustment are the same as the above method.

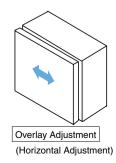
Vertical Adjustment

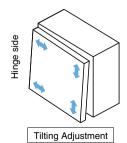
Loosen the vertical adjustment screw, move the door up and down to select appropriate position, and then tighten the screw.

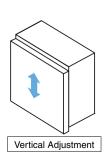
[Remarks]

Body fixing screw may become loose due to door opening and closing. Regularly check and tighten to prevent the door from falling off.











TORQUE HINGES

DAMPER HINGES LIFT ASSIST HINGES

100° Opening 19mm Overlay

Overlay 15~19mm Cup Dia \$35 Bore Depth 11mm Door Thickness 15~20mm

Stainless Steel Mounting Plate 1 100 Series

CONCEALED HINGE (STAINLESS STEEL) 100







[Sold Separately]

Stainless steel 100 series mounting plate 1

[Recommended Screws]

M4 raised countersunk head screw

RoHS	CAD	Item Code	Item Name	Description	Material	Finish	Weight (g)	Box (pcs)
G	3D	160-073-865	100-46/19SUS304B	Without Catch	Stainless Steel	Polished	39.1	200
G	3D	160-073-870	100-C46/19SUS304B	With Catch	(SUS304)		44.1	200

A mounting plate (sold separately) is required for installation. Please order separately.

Picture above is the combination of concealed hinge and mounting plate (sold separately)

HINGES CONCEALED HINGES

DETENT

RUITT HINGES

PIANO HINGES

STEP HINGES

LIFT-OFF HINGES

PIVOT HINGES

SPRING HINGES

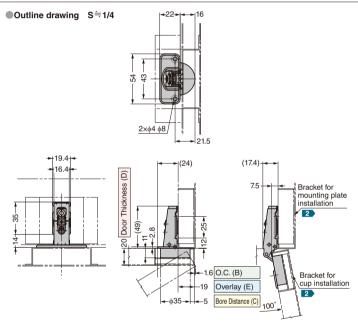
CLEAN ROOM HINGES

HINGES FOR ALUMINIUM FRAME

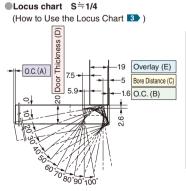
DROP HINGES

GLASS DOOR HINGES

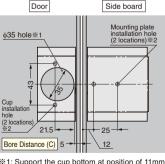
SPECIAL HINGES



Picture above is the combination of 100-46/19 or 100-C46/19 (w/catch) and mounting plate 100-P3A (sold separately).

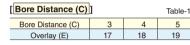


Cut out dimensions For metal door



- %1: Support the cup bottom at position of 11mm
- ※2: Internal threads need to be made by welding nut or burring.

Refer to 1 : P.117, 2 : P.131, 3 : P.111, 4 : P.110



For standard type shown in the table above mounting plate 0mm thickness.

Turning the overlay adjustment screw or using spacer (2mm thickness) to adjust overlay (Max. -6mm).

[Opening Clearance (O.C.)]

Clearances for door edge O.C. (A) and hinge side O.C. (B) are necessary. O.C. (A) and (B) change depending on door thickness and bore distance (C). Refer to locus chart and tables below when designing cabinets.

[O.C.(B)] Table							
Door Thickness	Во	C)					
(D)	3	4	5				
15	0.5	0.5	0.4				
16	0.6	0.6	0.6				
17	0.9	0.8	0.8				
18	1.1	1.1	1.0				
19	1.4	1.3	1.3				
20	1.7	1.6	1.6				
21%	2.1	2.0	1.9				
22※	2.5	2.4	2.3				
	O.C. (B)						

*Please refer to the locus chart if door thickness is over 20mm. (O.C. (B) can be made smaller by R chamfering (round chamfer) and C chamfering (chamfer plane) on the door.

[O.C.(A)]									
	Door Thickness	O.C. (A)							
	(D)	Door Width 300	Door Width 400	Door Width 500	Door Width 60				
	20	0.2	0.1	0.1	0.1				

[Door Dimensions and Number of Hinges] 4

Examples of installation to sheet metal (Brackets not included)

Concealed hinges can also be used for metal cabinets.

170 (19 mm Overlay)

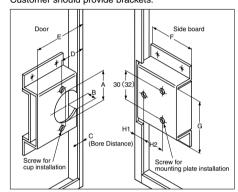


100 (19 mm Overlay)



[Bracket Installation]

Refer to this example and install brackets to the inner side of door and cabinet side board. Customer should provide brackets.



Size A: Cup diameter (ϕ 26, ϕ 35, or ϕ 40)

Size B: Bore depth (Be sure to support cup bottom)

Size C: Bore distance

Size D: Distance from door edge to cup mounting screw

Size E: More than distance from door edge to tip of cup flange.

For details, refer to the content page of each hinge.

Size F: More than total length of mounting plate.

Size G: More than width of mounting plate.

Size H₁, H₂: Installation position size from edge of mounting plate.

For details, refer to the content page of the mounting plate of hinge used.

TORQUE HINGES

DAMPER HINGES

LIFT ASSIST HINGES

DETENT HINGES

CONCEALED

BUTT HINGES

PIANO HINGES

STEP HINGES

LIFT-OFF HINGES

PIVOT HINGES

SPRING

HINGES

CLEAN ROOM HINGES

ALUMINIUM FRAME

DROP HINGES

GLASS DOOR HINGES

SPECIAL HINGES

Bracket for Mounting Plate Installation





Bracket for Cup Installation





