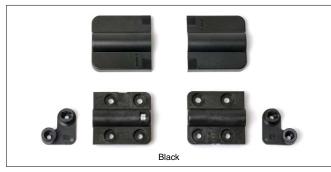
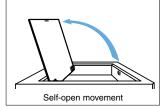
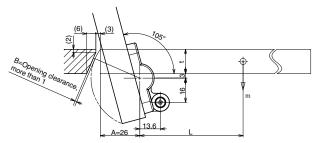
# SELF-OPEN DAMPER HINGE





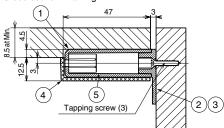




\*t=16. Prepare more than 1 for Gap B of Opening clearance.

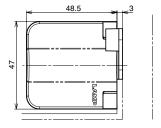
#### Installation

Cross-section Drawing



# **Top View**

When closed door



No.	Part Name	Material	Colour	
1	Body	Polyacetal (POM)	Black	
2	Bracket for side mount R	PBT		
3	Bracket for side mount L	PDI		
4	Cover	ABS	Black/White	
(5)	Damper	-	-	



**HG-JHS11** 

#### **Features**

- $\cdot$  Small damper hinge with self-opening function for top-opening lids. Using with a touch latch enables pop-up function of the lid.
- · Inset type.
- · Opening speed is adjustable with a hex key.
- $\cdot$  Applicable into surface mount with Bracket UKZ11-BL (sold separately).
- $\cdot$  Cover hides mounting screws for clean appearance.
- · Easy to cut out with a router.

## Specification

· Operation temperature: 0 − 40°C

## **Application**

· Small covers for machine or wire manager, etc.

#### Remarks

- · Applicable moment of door: 0.25 0.4N·m. Use a pair/door.
- · Install Spring unit on left side and damper unit for right side of the door.
- $\cdot$  When installing, ensure that both hinge shafts are levelled and alighted.
- $\cdot$  Please install with touch latch separately to keep the door closed.

#### **Sold Separately**

· Bracket for HG-JHS11 Surface Mount UKZ11-BL

#### **Recommended Screws**

· Countersunk tapping screw3, bind tapping screw 4

#### Calculation of maximum door moment

T= m × 9 80665 × I

T:Max. door torque (N/mm)

m:Door weight (kg)

L:Disrance from rotation centre to door centre of gravity (mm)  $L = \frac{D}{2} - A$  (Formula for assuming that the centre

of gravity is in the centre of door)

D:Door length (mm)

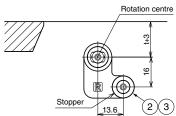
A:Bracket installation dimension (mm)

[Example] D=180 mm, A=26 mm, m=0.63kg

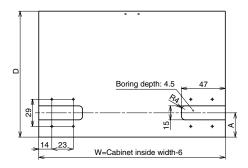
 $T=0.63\times9.80665\times(\frac{180}{2}-26)=395(mN\cdot m)$ =0.395 (N·m)

#### Installation

Bracket



#### **Cut Out Dimensions**

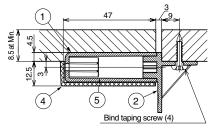




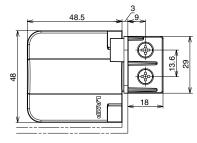


# **Surface Mount Type** (Installed with Bracket for Surface Mount UKZ11-BL)

#### **Cross-section Drawing**

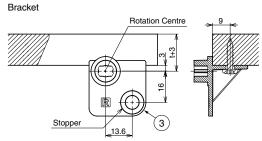


## **Top View**

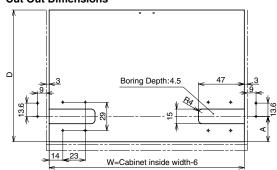


No.	Part Name	Material	Colour	
1	Body	Polyacetal (POM)	Black	
2	Bracket for side mount R	PBT		
3	Bracket for side mount L	PDI		
4	Cover	ABS	Black / White	
(5)	Damper	-	_	

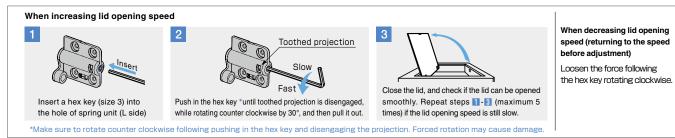
### Installation



## **Cut Out Dimensions**



# **Adjustment of Lid Opening Speed**



Body Sold by set.

RoHS CAD	Item Code	Item Name	Colour	Torque N⋅m/pair	Torque kgf/pair	Opening Angle	Weight	Box	Carton
- 2D <mark>3D</mark>	170-041-214	HG-JHS11-2BL	Black	0.1 – 0.25	1.02 – 2.55			12 set	50 set
- 2D3D	170-041-215	HG-JHS11-2WT	White	0.1 - 0.25	1.02 – 2.55	105°	56 a	12 set	50 set
- 2D <mark>3D</mark>	170-041-216	HG-JHS11-4BL	Black	0.25 – 0.4	2.55 – 4.08	105	56 y	12 set	50 set
- 2D 3D	170-041-217	HG-JHS11-4WT	White	0.25 - 0.4	2.55 – 4.06		!	12 set	50 set



# **Bracket for Surface Mount**

Sold by set.

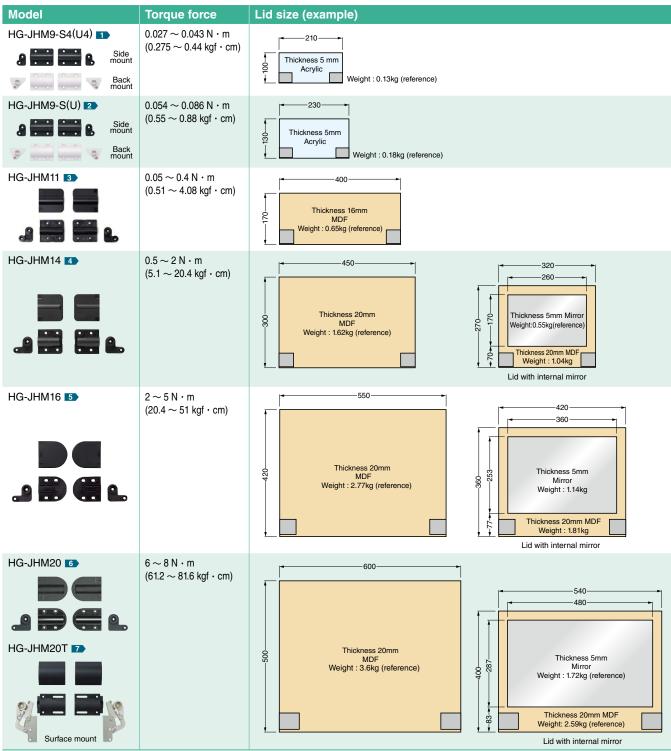
RoHS	CAD	Item Code	Item Name	Colour	Weight	Box	Carton
G	2D3D	170-041-218	UKZ11-BL	Black	12 g	50 set	500 set





# **HG-JHM Damper hinges series - Supported lid digest**

- This table gives a general guideline of the different lid weight and measurements that can be used with HG-JHM series.
- Lid measurements have been calculated using the maximum torque available for the product model. (for example, for HG-JHM16 series we used HG-JHM16-50)
- The lid measurements are just an example of the various possible combinations of length, width and thickness
- The torque value is calculated using one pair of HG-JHM installed on one lid.



Refer to 1 2: No.240 P.422, 3: No.328 P.8, 4: No.240 P.424, 5: No.240 P.426, 6: No.240 P.427, 7: No.328 P.3

## (How to calculate the maximum torque moment)

 $T = m \times 9.80665 \times L \times \frac{I}{1000}$ 

T = Maximum moment of the lid

m = Lid weight [kg] L = Distance from the rotation point to the centre of gravity of the lid (mm) (In case the centre of gravity is situated in the middle of the lid)

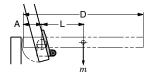
$$=\frac{D}{2}-A$$
 (For HG-JHM20T,  $L=\frac{D}{2}-A+20$ )

D = Lid length [mm]

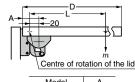
A = Distance from the rotation point to the back edge of the lid [mm] (For HG-JHM20T, A: Installation measurements of the bracket)

#### Calculation example (for HG-JHM14)

If D = 180mm, A = 26mm, m = 0.96kg... T=0.96x9.80665 x( $\frac{180}{2}$  - 26)× $\frac{1}{1000}$  = 0.6 [N·m]



Model	Α
HG-JHM9	18
HG-JHM11	26
HG-JHM14	26
HG-JHM16	32
HG-JHM20	36



Material Specific gravity

1.2

0.6

2.5

Acrylic

Mirror

Model	Α
HG-JHM20T	36~38

Model	Α
HG-JHM20T	36~38

