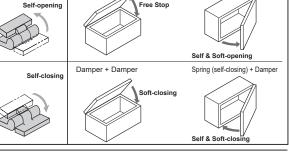
LAMP. HG-VH8 Combination Hinge Installation Instructions Designifies.

Thank you for selecting our product. Before starting installation, please read this manual thoroughly to ensure correct installation. Please keep this manual at hand for future reference. Direction of spring force

ABOUT THE PRODUCT

- Hinges for light weight lids, doors
- · Various motions in the same appearance
- Various combinations such as self-opening hinge + damper hinge (refer to "Possible combinations")



Possible combinations

Normal

Damper

Spring (self-opening)

Spring (self-closing)

Torque

Torque

T=mx9.8xL

on door size and weight

m: Lid weight (kg) D: Lid length (cm)

> X=D/2 + A Y=t/2 + B

gravity center of lid

 $L=\sqrt{X^2 + Y^2}$

T: Maximum lid torque (cN·m)

L : Distance between rotation center and

Type of hinges ID stamp N D3 OP CL T1 T3

— | ∆ | ∆ | ∘

 $- \Delta \Delta$

I —

N

D3

OP

CL

T1

Т3

△ Please carry out thorough tests before using since performance with these combinations might vary depending

Torque + Torque

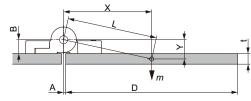
Spring (self-opening) + Damper

SPECIFICATIONS

Order code	Part No.	ID stamp	Color	Part built in	Torque N⋅m / piece	Operating temperature range
170-032-616	HG-VH8-N-BL	N	Black	—	—	-
170-032-617	HG-VH8-N-WT		White			
170-032-618	HG-VH8-D3-BL	D3	Black	Damper	0.022 - 0.038	10 - 40℃
170-032-619	HG-VH8-D3-WT		White			
170-032-620	HG-VH8-OP-BL	OP	Black	Spring	* increase 0.0153 cNm by 30 ° of revolution	
170-032-621	HG-VH8-OP-WT		White	(self-opening)		
170-032-622	HG-VH8-CL-BL	CL	Black	Spring (self-closing)	* increase 0.0153 cNm by 30 ° of revolution	
170-032-623	HG-VH8-CL-WT		White			
170-032-624	HG-VH8-T15-BL	T1	Black	Torque	0.15±33%	
170-032-625	HG-VH8-T15-WT		White			
170-032-626	HG-VH8-T35-BL	Т3	Black	Torque	0.35±29%	
170-032-627	HG-VH8-T35-WT		White			

* See "How to adjust spring torque" on the right page.

MAXIMUM LID TORQUE CALCULATION



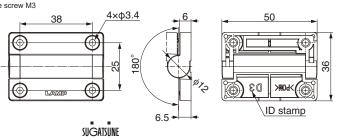
(Calculation example)

When D=12 cm, A=0.1 cm, B=0.65 cm, t=0.5 cm, m=0.08kg

- $L = \sqrt{(12/2+0.1)^2+(0.5/2+0.65)^2} = 6.13 \text{ cm}$
- $T = 0.08 \times 9.8 \times 6.13 = 4.8 \text{ cN} \cdot \text{m} = 0.048 \text{ N} \cdot \text{m}$

DIMENSION

Recommended screw : Bind head machine screw M3



FOR YOUR SAFETY WORK AND OPERATION

Meaning of symbols



Cautions: If these cautions are not followed, it may result in injury or damage.

D This product is for indoor use only. Do not use outside or anywhere where it will be exposed to water.

Do not use lubricant on the hinges since it may damages the hinges.

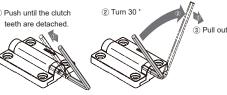
Align the rotation center of the hinges.

OUse within the specified torque range. (Damper hinges and torque hinges)

How to adjust spring torgue (Spring hinges only)

Note that the direction to increase the spring torque for Self-open is different from the direction for Self-closing type.

Clutch teeth **≜**Caution Improper adjustment may cause Hex key abnormal sound or damage of the part. ()(with acrossflats3) Self-opening Self-closing 1) Push until the clutch teeth are detached. Turn 30 1) Push until the clutch Turn 30



Check if the lid or door opens smoothly when it is released. If opening force is not enough, repeat step 1 to 3

The torque increases 0.0153N. m by every 30 ° of turn. The increasing limit is up to 4 turns (120°). If you like to decrease the torque, turn the hex key to the opposite direction.



Check if the lid or door closes smoothly when it is released. If closing force is not enough, repeat step 1 to 3.

The torque increases 0.0153N. m by every 30 ° of turn. The increasing limit is up to 4 turns (120°). If you like to decrease the torque, turn the hex key to the opposite direction.

Defore turning the hex key, make sure to push it enough so that the clutch teeth is released.

SUGATSUNE CANADA, INC. Montreal, CANADA

Phone: +1 514 312 5267

SUGATSUNE KOGYO CO., LTD. Tokyo, JAPAN Phone: +81 3 3866 2260 E-mail:export@sugatsune.co.jp
SUGATSUNE KOGYO (UK) LIMITED Reading, UK Phone: +44 1189 272 955 E-mail:sales@sugatsune.co.uk
SUGATSUNE EUROPE GmbH Düsseldorf, GERMANY Phone: +49 211 53812 900 E-mail:sale@sinatsune.eu

SUGATSUNE AMERICA, INC. California, USA SUGATSUNE SHANGHAI CO., LTD. Shanghai, CHINA Phone: +86 21 3632 1858 Phone: +1 310 329 6373 E-mail:sales@sugatsune.con E-mail:lamp@sugatsune.com.cn Guangzhou, CHINA Phone: +86 20 6639 3554 Chicago, USA Phone: +1 630 317 7072 E-mail:sales@sugatsune. E-mail:lamp@sugatsune.com.cn

Phone: +82 32 220 0603

SUGATSUNE KOGYO INDIA PRIVATE LIMITED Mumbai, INDIA Phone: +91 9867299597 E-mail:sales@sugatsune.in Delhi, INDIA Phone: +91 9867299597 +91 11 45093636 E-mail:sales@sugatsune.in

SUGATSUNE KOREA CO., LTD. Incheon, KOREA

E-mail:support@sugatsune.ca E-mail:subgort@sugatsune.co.kr ISO9001(Japan Offices and Sugatsune America) and ISO14001(Chiba Production division and Logistics center), certified. 2023.06 0952-6e