



TH-64 オートヒンジ(強力型)

Positioning Spring Hinge Strong Type



特長

スプリング荷重により移動側の開き力を補助します。本体側面に設けられた調節板の位置により、ばね荷重が一目でわかります。

用途

工作機械・各種制御装置等

Characteristic

Press out force of the spring assists the force to open the movable side. The pressing force of the spring can be checked at a glance with position of the adjuster plate.

Application

Machine tools / Various types of controllers, etc.

■バネ調節について

(1) 調節方法

調節棒を回転させると調節板が移動しバネの力が変わります。図1の角まどから見える調節板の位置によって、おおよそのバネの力が判ります。

(2) 調節範囲 : 0 ~ 12mm

本品のケースの角まどに目盛がついています。

図1の様に第1目盛は端から8mmで以下4mm間隔の目盛です。

この目盛を目安にして調節板の位置をセットしてください。

なお調節板の板厚は3mmです。

Ho=8mm (第1目盛にセット = バネを組入れる位置でバネ圧縮 = 0)

Hmax=20mm (第4目盛にセット = 最大にバネを圧縮した位置でバネ圧縮 = 12)

(例1)

●天蓋の重量 $W_o=6\text{kg}$

●天蓋の奥行き $L=400\text{mm}$ の場合

下の表より $H=14$ が調節板の位置になります。

(例2)

●天蓋の重量 $W_o=6.2\text{kg}$

●天蓋の奥行き $L=460\text{mm}$ の場合

W_o, L が $6\text{kg}-450$ と $6.5\text{kg}-450$ の場合、 $H=15$ と $H=16$ になりますので、その間でバランスをとってください。

■ Adjusting the spring

(1) How to adjust.

Turning the adjuster rod makes the change of position of the adjuster plate that modifies the spring force.

Approximate spring force can be recognized by checking the position of adjuster plate, which is shown in the figure1.

(2) Range of adjustment : 0 ~ 12mm

Below the square window, aligned slots are put as a scale.

First slot is at 8mm from the end, and a space between two slots is 4mm, as shown in the figure1.

Set the position of the adjuster plate accordingly with the scale.

A thickness of the adjuster plate is 3mm.

Ho=8mm for setting the adjuster plate to the slot 1 where the spring compression is set to be 0.

Hmax = 20mm for setting the adjuster plate to the slot 4 where the spring compression is set to be 12.

(Example 1)

● Weight of the lid $W_o = 6\text{kg}$

● Depth of the lid $L = 400\text{mm}$

The setting position of the adjuster plate H shall be $H = 14$ from the table below.

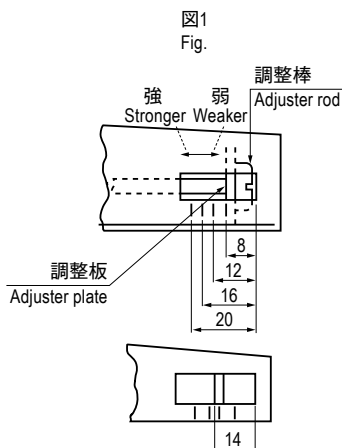
(Example 2)

● Weight of the lid $W_o = 6.2\text{kg}$

● Depth of the lid $L = 460\text{mm}$

According the table below, setting position shall be $H = 15$ and 16 for sets of (W_o, L) are $(6\text{kg}, 450\text{mm})$ and $(6.5\text{kg}, 450\text{mm})$, respectively.

The setting position shall be somewhere between $H = 15$ and $H = 16$ and should be determined by checking the balance.



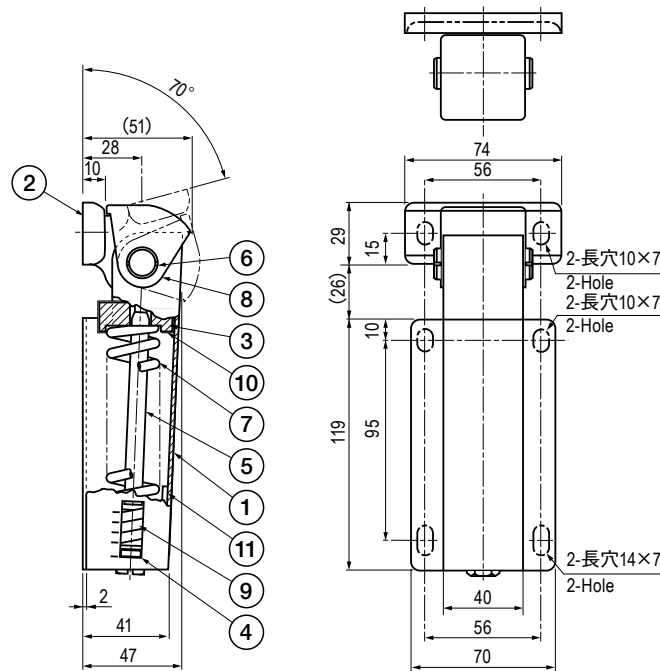
仕様 Specification

| 型番 Model No. | 自重 (g) Net Weight (g) |
|-----------------|--------------------------|
| TH-64 | 642 |

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■部品表 Parts List

| 部番 No. | 部品名 Part Name | 材質 Material | 処理 Finish | 数 Quantity |
|--------|---------------------|-------------|--|------------|
| 1 | ベース Base | SPCC | Ni | 1 |
| 2 | ヘッド Head | PA | グレー Gray | 1 |
| 3 | スライド Slide | POM | 白色 White | 1 |
| 4 | 調節板 Adjuster Plate | SPCC | 3 価クロメート Trivalent Chromate Treatment | 1 |
| 5 | 調節棒 Adjuster Rod | SWCH | | 1 |
| 6 | 軸 Axis | SUM | | 1 |
| 7 | バネ Spring | SWP | | 1 |
| 8 | カバー Cover | PP | | 白色 White |
| 9 | バネ受 Spring Receiver | POM | — | 1 |
| 10 | スライドカバー Slide Cover | SUS430 | — | 1 |
| 11 | クッション Cushion | CR | 黒色 Black | 1 |



■バネ調節早見表 (2 個使用の場合)

調節板のセット位置 H (角までの端からの距離) の目安としてください。天蓋の重量・大きさとばね力のバランスを考慮しております。

■ Table for Adjust Spring (Using 2 springs)

Below table shows how much of compression should be applied on the spring to balance with sets of weight and depth of the lid.

注 Note) Wo = 天蓋の重量 kg Weight of the lid (kg) L = 天蓋の奥行き mm Depth of the lid (mm)

| Wo \ L | 300mm | 350mm | 400mm | 450mm | 500mm | 550mm | 600mm |
|--------|--------|--------|--------|--------|--------|--------|--------|
| 8.0kg | H = 14 | H = 16 | H = 17 | H = 19 | H = 20 | H = 20 | ★ |
| 7.5 | H = 14 | H = 15 | H = 17 | H = 18 | H = 19 | H = 20 | H = 20 |
| 7.0 | H = 13 | H = 14 | H = 16 | H = 17 | H = 18 | H = 19 | H = 20 |
| 6.5 | H = 12 | H = 14 | H = 15 | H = 16 | H = 17 | H = 18 | H = 19 |
| 6.0 | H = 12 | H = 13 | H = 14 | H = 15 | H = 16 | H = 17 | H = 18 |
| 5.5 | H = 11 | H = 12 | H = 13 | H = 14 | H = 15 | H = 16 | H = 17 |
| 5.0 | H = 10 | H = 11 | H = 12 | H = 13 | H = 14 | H = 15 | H = 16 |
| 4.5 | H = 10 | H = 10 | H = 11 | H = 12 | H = 13 | H = 14 | H = 15 |
| 4.0 | H = 9 | H = 10 | H = 10 | H = 11 | H = 12 | H = 13 | H = 14 |
| 3.5 | H = 9 | H = 9 | H = 10 | H = 10 | H = 11 | H = 12 | H = 12 |
| 3.0 | H = 9 | H = 9 | H = 9 | H = 10 | H = 10 | H = 10 | H = 11 |
| 2.5 | ★ | H = 9 | H = 9 | H = 9 | H = 9 | H = 10 | H = 10 |

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