

We Hope To Help You Choose The Right SUPERSEN Gas Spring For Your Application, You Can Use The Following Approximation Formula And Application Sketch.

我們希望能幫助您選擇合適的氮氣缸，您可以使用下面的簡易公式和應用概述。

■ The Stroke A (mm)

氮氣缸行程 A

■ The Extended Length B (mm)

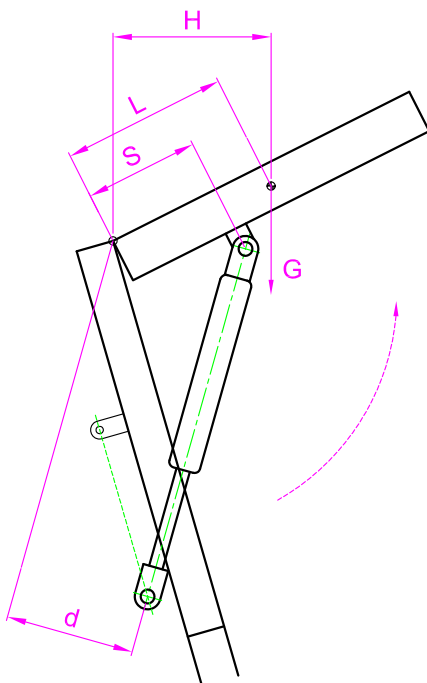
氮氣缸全長 B

■ The Extension Force F1 (N)

氮氣缸F1壓力值

■ And The Type Of Connection Parts

氮氣缸兩端的連接頭



Determining The Extension Force F1 (N) At $25^{\circ}\text{C} \pm 3^{\circ}\text{C}$
氮氣缸伸張壓力值 F1 (N) 溫度條件在攝氏 $25^{\circ}\text{C} \pm 3^{\circ}\text{C}$

$$F1 = \frac{G \times H}{d \times n} \times 13 \text{ (N)}$$

G=Weight Of Flap In KG

門蓋總重量於重心 單位:公斤

L=Distance From Center Of Gravity To Pivot Point In mm

由鉸鏈至門蓋重心的距離 單位:公釐

d=Effective Lever Arm Of Gas Spring In mm, Flap Open.

由鉸鏈至氮氣缸軸心中心線的距離 單位:公釐

13=Conversion Factor KG-N+Safety Margin

安全系數

S=Flap Attachment (Suggest Approx. 2/3 L)

由鉸鏈至氮氣缸安裝在門蓋上中心點位置 單位:公釐

n=Number Of Gas Spring (Standard : n=2 Pcs)

氮氣缸安裝的數量

H=Effective Leverarm Of Gravity In mm, Flap Open.

由鉸鏈至門蓋重心垂直距離 單位:公釐

Example :

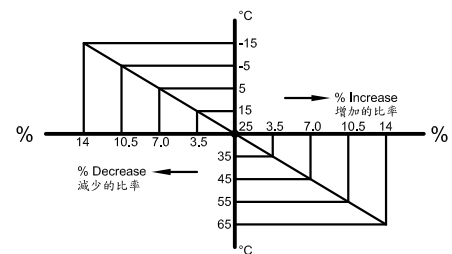
範例

G=30KG, H=400mm, d=200mm, n=2

$$F1 = \frac{30 \times 400}{200 \times 2} \times 13 \text{ (N)} = 390\text{N}$$

Our General Extension Force Tolerance Is +40N/-20N $\pm 5 \sim 7\%$, Physically, The Actual Force Of Gas Spring Depends On The Temperature. For Each 10°C , The Force Changes About 3.5%. Size And Extension Force Can Be Made According To Your Requirements. We Would Be Pleased To Help You To Design A Gas Spring For Your Application.

一般我們通用的壓力公差為+40N/-20N 或 $\pm 5\% \sim 7\%$ ，氮氣缸壓力的物理上的變化取決於溫度，每上升 10°C 氮氣缸壓力會上升3.5%；每下降 10°C 氮氣缸壓力會下降3.3%。



INSTALLATION INSTRUCTIONS :

- Install Without Twisting
- Pivot Only At The Connection Provided
- Avoid Lateral Forces
- It Is Recommended To Install The Unit With The Piston Rod Facing Down, If Possible
- Protect Piston Rod From Dirt, Paint And Damage
- Do Not Perform Any Metal-Cutting Work On The Unit

安裝說明：

- 安裝氮氣缸需注意不要偏斜。
- 避免產生側向力。
- 安裝氮氣缸時軸心能朝下方安裝。
- 請保護軸心不要沾染灰塵，油漆和損傷。
- 不能對氮氣缸作任何的金屬切削加工。