

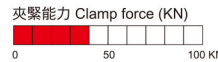
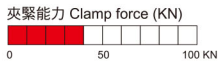
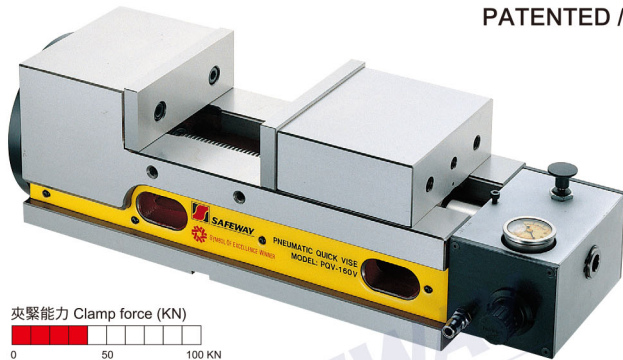
## MOST SUITABLE FOR MASS PRODUCTION ON MACHINE CENTER

最適合立式綜合切削加工機，銑床使用

MC · Air  
肯倍得 / 快速型

- MODEL • 07700100 PQV-100V • 07700160 PQV-160V • 07705100 PQV-100S • 07705160 PQV-160S  
 • 07700130 PQV-130V • 07700200 PQV-200V • 07705130 PQV-130S • 07705200 PQV-200S

PATENTED / 專利在案



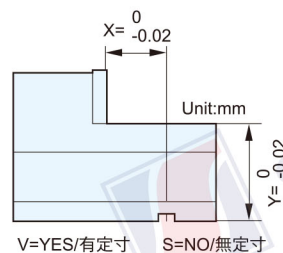
### FEATURES :

- Robust construction of one piece casting of fixed jaw and vise bed.
- Clamping system: Air+Mechanical power.
- Rigid and high tensile casting of ductile iron FCD600 JIS (Equal to GGG-60) with 60kgs/mm<sup>2</sup> or 80,000psi tensile strength.
- Most suitable for mass production and to be used on machine centers, milling machines, drilling machines and special purpose machines.
- Most compact pneumatic mechanism design. No oil, just joint with the air supply will do.
- Most compact in total length of vise with Max. clamping capacity
- Safety locking mechanism for unexpected termination of air supply. After pneumatic clamping, the work piece will be clamped firmly even without the air supply.
- Easy and simple ON-OFF switch control for pneumatic operation. The optional electric control for automatic and FMS system is available.
- Safety protection Max. pneumatic clamping stroke is 4mm to prevent inserting operator's finger during clamping operation. (Stroke is 2mm best power capacity)
- Rapid ON-OFF only 1.5sec.
- Multiply pneumatic Quick Vise set up available with only one source of air supply. (Optional)
- Free adjusting of Max. pneumatic clamping pressure from 0~1,000kgf (4000) by air regulator, jaw opening 2mm is best clamping power capacity of workpiece.
- Vise bed flame hardened to HRC45° and up takes up wear and maintains accuracy for long.
- Down trust "semi-spherical segment" mechanism eliminates jaw lifting and work-piece.

### 特性 :

- 倍力式空壓快速虎鉗適合MC立式綜合切削加工機，銑床/鑽床專用機等大量生產加工快速夾具。
- 夾緊系統：倍力機構+空壓。
- 倍力機構配合空壓快速，達到快速和大夾持力功能，且只需接上空壓源即可免用油推送，以防漏油之虞。
- 本虎鉗設計有安全止逆裝置，當空壓源突然停止供應時，夾持力永不鬆脫，安全性高。
- 操作簡單，只用手動開關控制虎鉗關閉，亦可搭配自動控制以達FMC無人化系統。
- 關閉範圍0~4m/m安全關閉距離，以免手指伸入關閉範圍，傷及手指(安全設計)。
- 關閉時間只需1.5秒，夾持範圍可從0~200m/m自由調整(工件長度再加2mm為最佳夾持狀況)。
- 本虎鉗可搭配多台並列使用，也只需一個空壓源即可，簡單方便。
- 夾持力由0~4000kgf可用空壓調節閥自由調整(壓力大小如附表所示)。
- 強而有力材質-虎鉗本台使用球狀石墨鑄鐵(FCD600~60kgs/mm<sup>2</sup>) (80,000psi)抗張力強，耐磨性高，不易變形。
- 虎鉗本台滑動面均經硬化熱處理HRC45°以上，可保持長久耐磨性及精度。
- 角固式半圓球可產生角固下鎖之力~可消除虎口板上浮和工件傾斜。
- 本虎鉗可側立使用，適合搭配專用機及立式加工用。

PQV



PQV-100V, 130V, 160V, 200V

$$X = 0 \quad Y = 0$$

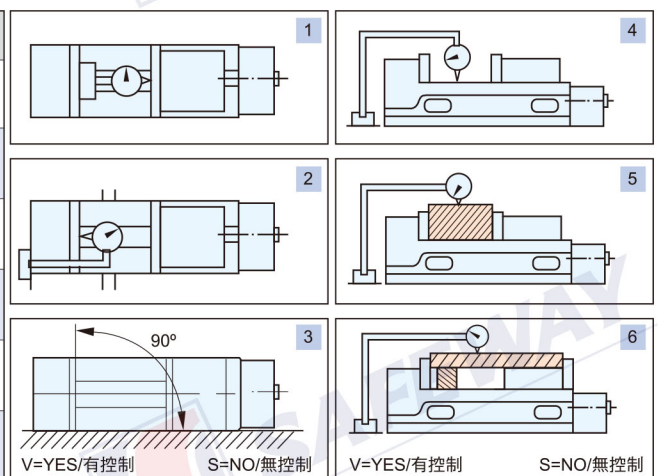
$$X = -0.02 \quad Y = -0.02$$

Vise side-lock square within 0.010mm  
虎鉗側立直角度0.010以內

PQV-100S, 130S, 160S, 200S

Vise side-lock square without control  
虎鉗側立不控制精度

| NO | TEST ITEM/檢查事項  | JIS grade 1.<br>JIS 1級 | Guaranteed<br>許可精度 |
|----|---|------------------------|--------------------|
| 1  | Both jaw plate parallel.<br>兩虎口板相互平行度   | 0.020<br>100mm         | 0.020<br>100mm     |
| 2  | Keyways on bottom of vise bed square to clamping surface of jaw plate.<br>虎鉗底部鑿槽與虎口板之平行度          | 0.020<br>100mm         | 0.015<br>100mm     |
| 3  | Vise side-lock on bottom to slide way square.<br>虎鉗側立與工作台之直角度                                     | 0.020<br>100mm         | 0.010<br>100mm     |
| 4  | Surface of vise bed parallel to bottom of vise body.<br>虎鉗底部與滑動面之平行度                              | 0.020<br>100mm         | 0.010<br>100mm     |
| 5  | Top of rectangular test block clamped tightly by jaw parallel to bottom of vise body<br>工作夾緊後之平行度 | 0.030<br>100mm         | 0.020<br>100mm     |
| 6  | Max. opening test block parallel to bottom of vise body.<br>虎鉗大開口工件之平行度                           | 0.050<br>100mm         | 0.030<br>100mm     |





**MC PNEUMATIC QUICK VISE**

**MC 角式 / 倍力式空壓快速精密虎鉗**

**Standard Accessories**

- 1.Handle x 1 pc
- 2.Guide key x 2 pcs  
M6 x 10L x 2 pcs
- 3.Vise locked block x 4 pcs

**標準附件**

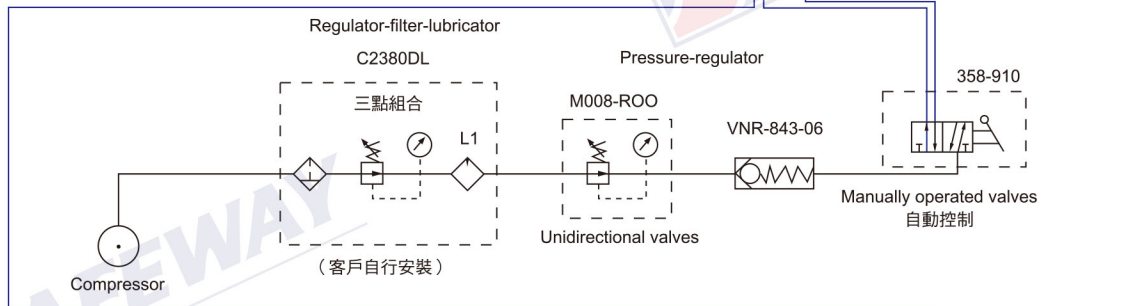
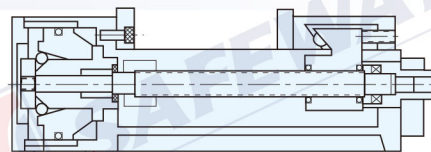
- 1. 把手1組
- 2. 導正鍵2只  
(M6 x 10L)螺絲 x 2支
- 3. 虎鉗固定塊 x 4只

**Optional Accessories**

- 1.Special application jaw plates. (P81,82)

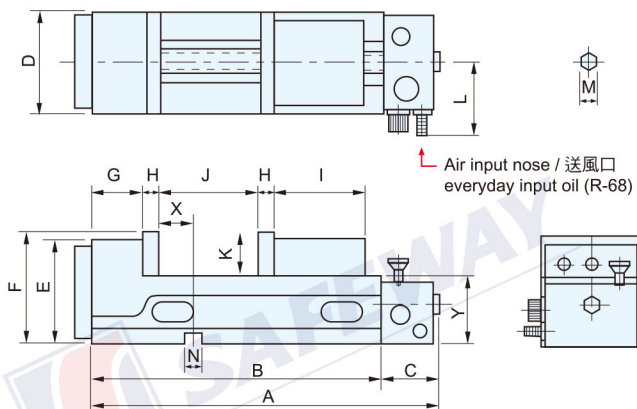
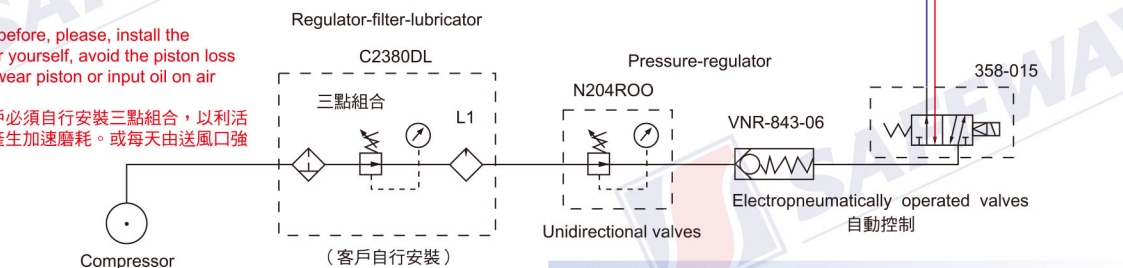
**特殊附件**

- 1.特殊虎口 (P81,82)

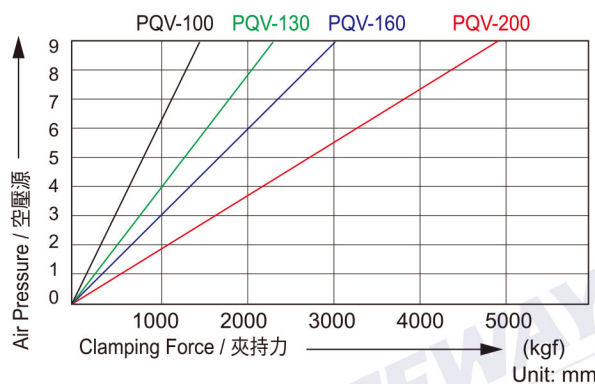


**★ CAUTION/注意：**

- When you operate vise before, please, install the regulator- filter-lubricator yourself, avoid the piston loss lubrication and take up wear piston or input oil on air input nose. (#R-68)
- 使用此快速虎鉗前，客戶必須自行安裝三點組合，以利活塞潤滑，以免活塞失油產生加速磨耗。或每天由送風口強制給油。(R-68機油)



**空壓源與夾緊力示意圖**



| Order NO.<br>訂購編號 | Model<br>型號 | A   | B   | C   | D   | E   | F   | G   | H  | I   | J     | K  | L   | M  | N  | X  |
|-------------------|-------------|-----|-----|-----|-----|-----|-----|-----|----|-----|-------|----|-----|----|----|----|
| 07700100          | PQV-100V    | 442 | 340 | 102 | 101 | 130 | 133 | 96  | 15 | 105 | 0~105 | 48 | 95  | 14 | 16 | 45 |
| 07705100          | PQV-100S    | 442 | 340 | 102 | 101 | 130 | 133 | 96  | 15 | 105 | 0~105 | 48 | 95  | 14 | 16 | 45 |
| 07700130          | PQV-130V    | 507 | 405 | 102 | 131 | 152 | 155 | 100 | 15 | 115 | 0~140 | 55 | 95  | 14 | 18 | 65 |
| 07705130          | PQV-130S    | 507 | 405 | 102 | 131 | 152 | 155 | 100 | 15 | 115 | 0~140 | 55 | 95  | 14 | 18 | 65 |
| 07700160          | PQV-160V    | 534 | 432 | 102 | 161 | 160 | 163 | 115 | 15 | 130 | 0~150 | 58 | 105 | 14 | 18 | 65 |
| 07705160          | PQV-160S    | 534 | 432 | 102 | 161 | 160 | 163 | 115 | 15 | 130 | 0~150 | 58 | 105 | 14 | 18 | 65 |
| 07700200          | PQV-200V    | 627 | 525 | 102 | 201 | 185 | 188 | 125 | 18 | 150 | 0~200 | 63 | 105 | 14 | 18 | 82 |
| 07705200          | PQV-200S    | 627 | 525 | 102 | 201 | 185 | 188 | 125 | 18 | 150 | 0~200 | 63 | 105 | 14 | 18 | 82 |
| 07706160          | PQV-160V-L  | 604 | 502 | 102 | 161 | 160 | 163 | 115 | 15 | 130 | 0~220 | 58 | 105 | 14 | 18 | 65 |

| Order NO.<br>訂購編號 | Model<br>型號 | X= 0<br>-0.02 | Y   | Y= 0<br>-0.02 | Power<br>夾緊力7kgf | Air Pressure<br>空壓源壓力     | Stroke<br>行程 | N.W.<br>淨重 | G.W.<br>毛重 | Shipment Size<br>裝箱尺寸 | Remark<br>備註 |
|-------------------|-------------|---------------|-----|---------------|------------------|---------------------------|--------------|------------|------------|-----------------------|--------------|
| 07700100          | PQV-100V    | YES           | 85  | YES           | 11KN(1078kgf)    | 1.5~7.0kg/cm <sup>2</sup> | 0~3m/m       | 27kg       | 29kg       | 600x220x185           |              |
| 07705100          | PQV-100S    | NO            | 85  | NO            | 11KN(1078kgf)    | 1.5~7.0kg/cm <sup>2</sup> | 0~3m/m       | 27kg       | 29kg       | 600x220x185           |              |
| 07700130          | PQV-130V    | YES           | 100 | YES           | 16KN(1568kgf)    | 1.5~7.0kg/cm <sup>2</sup> | 0~3m/m       | 40kg       | 42kg       | 665x250x205           |              |
| 07705130          | PQV-130S    | NO            | 100 | NO            | 16KN(1568kgf)    | 1.5~7.0kg/cm <sup>2</sup> | 0~3m/m       | 40kg       | 42kg       | 665x250x205           |              |
| 07700160          | PQV-160V    | YES           | 105 | YES           | 21KN(2058kgf)    | 1.5~7.0kg/cm <sup>2</sup> | 0~4m/m       | 52kg       | 55kg       | 760x280x215           |              |
| 07705160          | PQV-160S    | NO            | 105 | NO            | 21KN(2058kgf)    | 1.5~7.0kg/cm <sup>2</sup> | 0~4m/m       | 52kg       | 55kg       | 760x280x215           |              |
| 07700200          | PQV-200V    | YES           | 125 | YES           | 41KN(4018kgf)    | 1.5~7.0kg/cm <sup>2</sup> | 0~4m/m       | 83kg       | 86kg       | 860x320x225           |              |
| 07705200          | PQV-200S    | NO            | 125 | NO            | 41KN(4018kgf)    | 1.5~7.0kg/cm <sup>2</sup> | 0~4m/m       | 83kg       | 86kg       | 860x320x225           |              |
| 07706160          | PQV-160V-L  | YES           | 105 | YES           | 21KN(2058kgf)    | 1.5~7.0kg/cm <sup>2</sup> | 0~4m/m       | 54kg       | 58kg       | 760x280x215           |              |