

VTAD



VTBD

● 兩台可變容量輪葉幫浦連結成一體，以一台電動馬達直接驅動之。從兩台可變容量輪葉幫浦的吐出油量，可以個別供給各自的油路，以驅動作動器。亦可驅動同一作動器，其最大特長為同一軸可驅動兩個可變容量輪葉幫浦節省空間，及同一回路內，可以很簡單地得到高低兩種壓力。

● Combination of two sets of Variable Displacement, Vane Pumps, by one set of motor.  
The oil exhalation of two sets of Variable Displacement, Vane Pumps offers individual oil circuits to drive an activator. In addition to driving the same activator, the special feature is to drive two sets of Variable Displacement, Vane Pumps at the same axis to save space, and to get the high and low pressure within the same circuit.

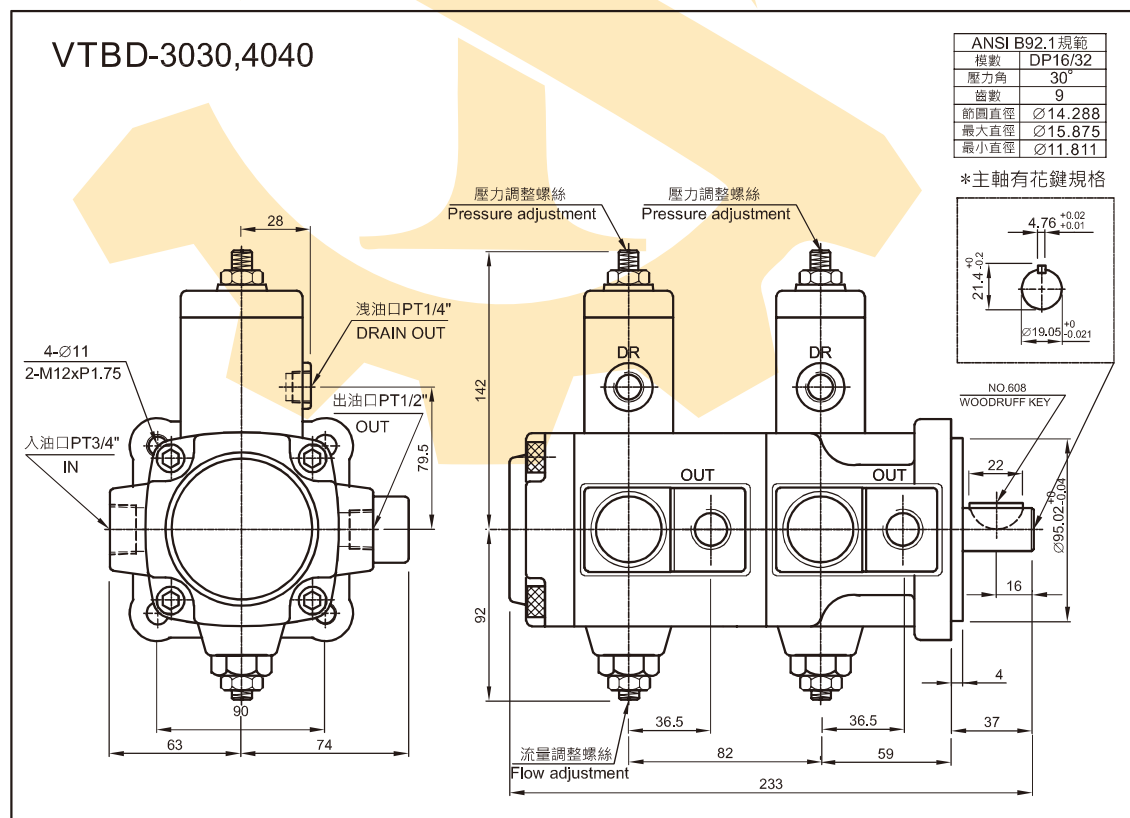
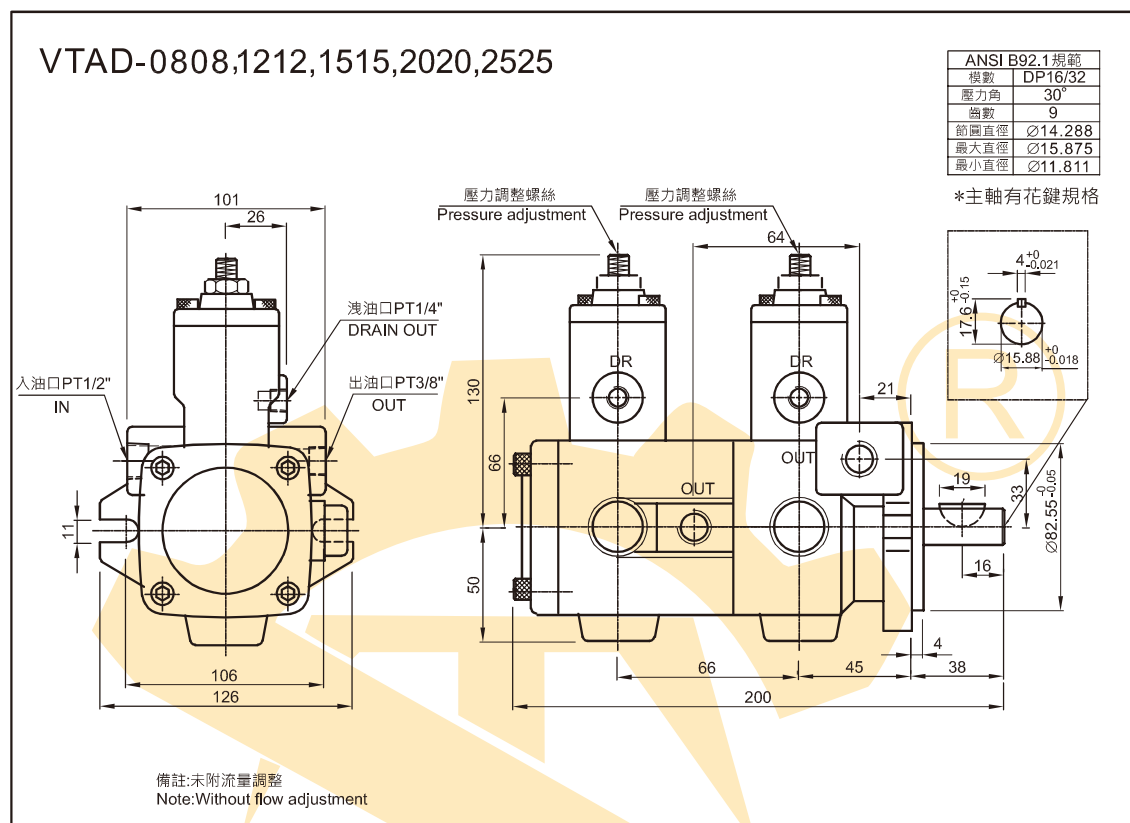
● 型式號碼表示法 / **MODEL NUMBER DESIGNATION**

| VTBD          | -F                                                 | ※※※※                               | -A※                                                             | ※                                 |
|---------------|----------------------------------------------------|------------------------------------|-----------------------------------------------------------------|-----------------------------------|
| 型式號碼<br>Model | 安裝方式<br>Mounting<br>Type                           | 吐出容積<br>Delivery Capacity<br>L/min | 壓力調整範圍<br>Range Of Pressure<br>Adjustment(kgf/cm <sup>2</sup> ) | 心軸種類<br>Shaft Type                |
| VTAD          | F : 法蘭型<br>Flange Type<br><br>L : 腳座型<br>Foot Type | 0808<br>1212、1515<br>2020、2525     | A1: 5~30<br>A2: 30~55<br>A3: 50~70                              | 無標記 (none) :<br>平鍵 (Straight key) |
| VTBD          |                                                    | 3030、4040                          |                                                                 | T9: 花鍵 (Spline key)               |

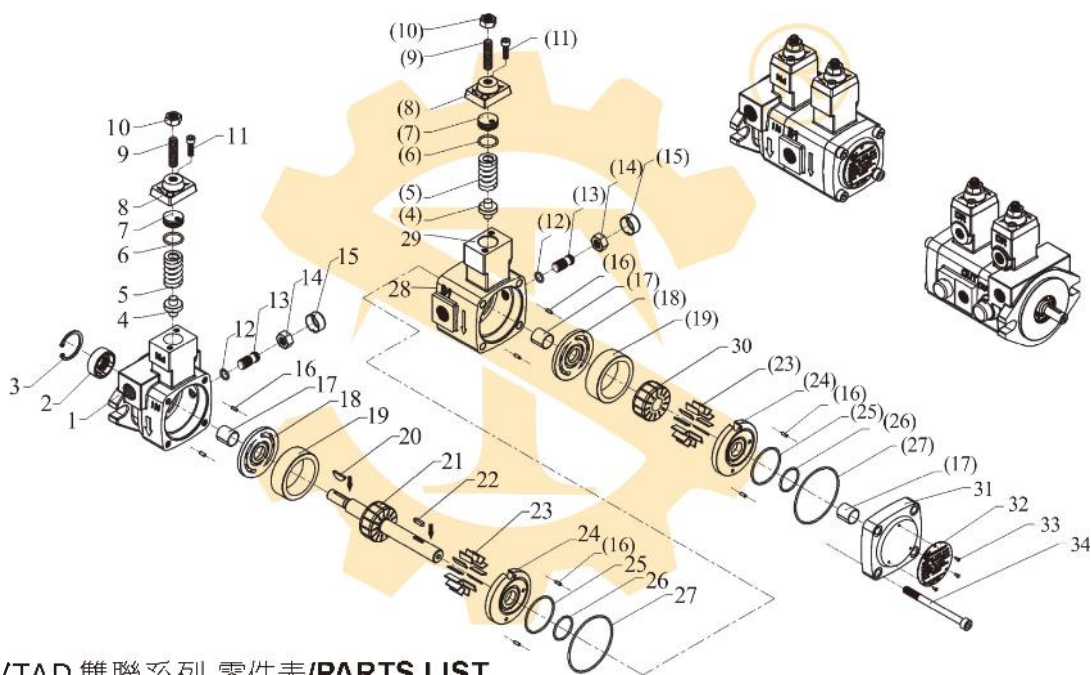
● 幫浦性能表 / **SPECIFICATION**

| 型式<br>號碼<br>Model | 最高壓力<br>(瞬間)<br>Max<br>Pressure<br>kg/cm <sup>2</sup> | 吐油量<br>Output Flow<br>AT 3.5kg/cm <sup>2</sup><br>1800 r.p.m<br>L/min | 配管尺寸<br>Ports size |          |          | 迴轉速度<br>Speed r.p.m |           | 重量<br>Weight(kg)    |                       |
|-------------------|-------------------------------------------------------|-----------------------------------------------------------------------|--------------------|----------|----------|---------------------|-----------|---------------------|-----------------------|
|                   |                                                       |                                                                       | 出油<br>Out          | 入油<br>In | 迴油<br>Dr | 最低<br>Min           | 最高<br>Max | 腳座型<br>Foot<br>Type | 法蘭型<br>Flange<br>Type |
| VTAD -0808        | 70                                                    | 08+08                                                                 | 3/8"               | 1/2"     | 1/4"     | 900                 | 1800      | 10.5                | 9.5                   |
| VTAD -1212        |                                                       | 12+12                                                                 |                    |          |          |                     |           |                     |                       |
| VTAD -1515        |                                                       | 15+15                                                                 |                    |          |          |                     |           |                     |                       |
| VTAD -2020        |                                                       | 20+20                                                                 |                    |          |          |                     |           |                     |                       |
| VTAD -2525        | 55                                                    | 25+25                                                                 | 1/2"               | 3/4"     | 1/4"     |                     |           | 19                  | 16                    |
| VTBD -3030        | 70                                                    | 30+30                                                                 |                    |          |          |                     |           |                     |                       |
| VTBD -4040        |                                                       | 40+40                                                                 |                    |          |          |                     |           |                     |                       |

● 外觀尺寸圖 / DIMENSIONS (IN MILLIMETERS)



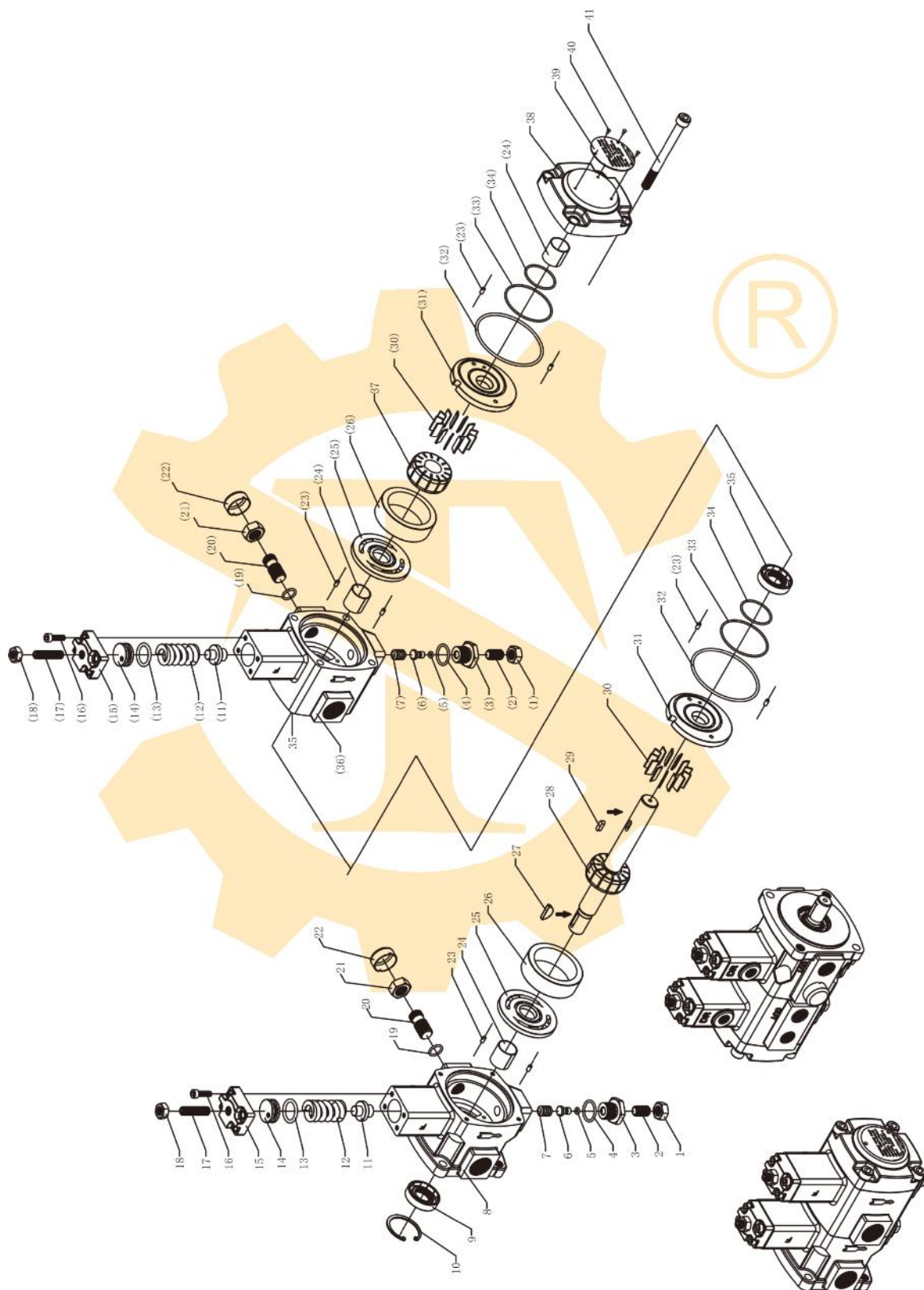
● VTAD 雙聯系列 分解圖/ DISASSEMBLY FIG



● VTAD 雙聯系列 零件表/PARTS LIST

| 項目<br>Item | 內容<br>Description               | 數量<br>Q'ty | 附註<br>Remarks | 項目<br>Item | 內容<br>Description               | 數量<br>Q'ty | 附註<br>Remarks                |
|------------|---------------------------------|------------|---------------|------------|---------------------------------|------------|------------------------------|
| 1          | 泵浦本體/Pump Body                  | 1          |               | 18         | 前分流板<br>Front port plate        | 2          |                              |
| 2          | 心軸油封/Shaft seal                 | 1          | 17X35X7       | 19         | 壓力環/Cam ring                    | 2          |                              |
| 3          | 扣環/Retainer ring                | 1          | R35           | 20         | 半圓鍵/Woodruff key                | 1          | 4×3/4                        |
| 4          | 雙頭活塞/Twin piston                | 2          |               | 21         | 心軸轉子/Shaft Rotor                | 1          |                              |
| 5          | 彈簧/Spring                       | 2          |               | 22         | 雙圓鍵/Keyway                      | 1          | 4X4X16                       |
| 6          | O 型環/O ring                     | 2          | P-20          | 23         | 葉片/Vane                         | 26         | 1.6X8.45=20<br>(12.15.20.25) |
| 7          | 單頭活塞/Snap piston                | 2          |               | 24         | 後分流板<br>Rear port plate         | 2          |                              |
| 8          | 壓力調整蓋/cover                     | 2          |               | 25         | O 型環/O ring                     | 2          | S-45                         |
| 9          | 調整螺栓/Adj. bolt                  | 2          | M10×1.5×40    | 26         | O 型環/O ring                     | 2          | S-28                         |
| 10         | 螺帽/Screw nut                    | 2          | M10×1.5       | 27         | O 型環/O ring                     | 2          | S-70                         |
| 11         | 六角沉頭螺絲<br>Countersink hex-screw | 4          | M6×1.0×20     | 28         | 油封/Oil seal                     | 1          | 17X24X5                      |
| 12         | O 型環/O ring                     | 2          | P-10          | 29         | 雙泵本體<br>Double Pump Body        | 1          |                              |
| 13         | 調整螺栓/Adj. bolt                  | 2          | M12×1.0×28    | 30         | 轉子/Rotor                        | 1          |                              |
| 14         | 螺帽/Screw nut                    | 2          | M12×1.0       | 31         | 後蓋/ Rear cover                  | 1          |                              |
| 15         | 帽蓋/Snap cap                     | 2          |               | 32         | 銘牌/ Brand plate                 | 1          |                              |
| 16         | 定位梢/Locking pin                 | 8          | Ø3.0×7.8      | 33         | 馬達釘/ Motor nails                | 3          |                              |
| 17         | 乾式軸承<br>Dry bearings            | 3          | 17×15         | 34         | 六角沉頭螺絲<br>Countersink hex-screw | 4          | M8×1.25×95                   |

● VTBD 雙聯系列 分解圖/ DISASSEMBLY FIG



● VTBD 雙聯系列 零件表/PARTS LIST

| 項目<br>Item | 內容<br>Description               | 數量<br>Q'ty | 附註<br>Remarks | 項目<br>Item | 內容<br>Description               | 數量<br>Q'ty | 附註<br>Remarks        |
|------------|---------------------------------|------------|---------------|------------|---------------------------------|------------|----------------------|
| 1          | 螺帽/Screw nut                    | 2          | M12×1.75      | 21         | 螺帽/Screw nut                    | 2          | M16×1.0              |
| 2          | 調整螺栓/Adj. bolt                  | 2          | M12×1.75×20   | 22         | 帽蓋/Snap cap                     | 2          |                      |
| 3          | 塞頭螺絲/Plug screw                 | 2          |               | 23         | 定位梢/Locking pin                 | 8          | Ø4.0×8               |
| 4          | O 型環/O ring                     | 2          | P-22          | 24         | 無油軸承/Dry bearings               | 3          | 22×25                |
| 5          | O 型環/O ring                     | 2          | P-5           | 25         | 前分流板/Front port plate           | 2          |                      |
| 6          | 柱塞/Plug screw                   | 2          |               | 26         | 壓力環/Cam ring                    | 2          |                      |
| 7          | 活塞/Piston                       | 2          |               | 27         | 半圓鍵/Woodruff key                | 1          | No.608<br>(3/16×7/8) |
| 8          | 泵浦本體/Pump Body                  | 1          |               | 28         | 心軸轉子/Shaft Rotor                | 1          |                      |
| 9          | 心軸油封/Oil seal                   | 1          | 22×42×11      | 29         | 雙圓鍵/Keyway                      | 1          | 3/16×3/16×16         |
| 10         | 扣環/Retainer ring                | 1          | R-42          | 30         | 葉片/Vane                         | 26         | 1.6 ×9.5×22          |
| 11         | 雙頭活塞/ Twin piston               | 2          |               | 31         | 後分流板/Rear port plate            | 2          |                      |
| 12         | 彈簧/Spring                       | 2          |               | 32         | O 型環/O ring                     | 2          | G-85                 |
| 13         | O 型環/O ring                     | 2          | P-22A         | 33         | O 型環/O ring                     | 2          | S-60                 |
| 14         | 單頭活塞/ Snap plug                 | 2          |               | 34         | O 型環/O ring                     | 2          | S-38                 |
| 15         | 上蓋/Top cover                    | 2          |               | 35         | 心軸油封/Oil seal                   | 1          | 22×32×5              |
| 16         | 六角沉頭螺絲<br>Countersink hex-screw | 8          | M6×1.0×20     | 36         | 雙泵本體<br>Double Pump Body        | 1          |                      |
| 17         | 調整螺栓/Adj. bolt                  | 2          | M10×1.5×40    | 37         | 轉子/Rotor                        | 1          |                      |
| 18         | 螺帽/Screw nut                    | 2          | M10×1.5       | 38         | 後蓋/ Rear cover                  | 1          |                      |
| 19         | O 型環/O ring                     | 2          | P-14          | 39         | 銘牌/ Brand plate                 | 1          |                      |
| 20         | 調整螺栓/Adj. bolt                  | 2          | M16×1.0×36    | 40         | 馬達釘/ Motor nails                | 3          |                      |
|            |                                 |            |               | 41         | 六角沉頭螺絲<br>Countersink hex-screw | 4          | M10×1.5×110          |