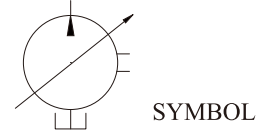


Care in Application 變量泵使用時注意事項



Power Unit Circuit

In variable displacement vane Pump systems , the close circuit is recommended.

Sharp Characteristics and Quick Response

Quick response is displayed in both off-on control of operation , due to use special design "BIAS PISTON". Stable and accurate operation can be attained in an instant.

Low Noise Level (even in the high pressure range)

The noise level(dB)is very low , even in the high pressure dut to used of "JOURNAL BEARING" , special setting and shape modification of the suction and delivery ports.

Energy Saving Type

Power loss has been reduced further by application of our highly advanced precision machining technology to assure the same high efficiency performance as the series with many new mechanisms of our new design.

Sturdy Structure for Durable Life

High durability is assured by the sturdy construction based on our rich experience and know how as well as strict selection of materials and high precision machining. Stable and highly efficient performance is possible even under severe operating conditions.

Shaft Rotation

Clockwise rotation viewed from the shaft end is standard.

Fluids Permissible

When working pressure lower than 70 bar , Hydraulic oil with a viscosity from 30 ~ 50(cst) (VG32) at 40°C is recommended.

- 1.一般輪葉變量泵建議使用閉迴路的設計。
- 2.良好的應答速度與穩定的性能。
- 3.極低的噪音，甚至在 70kgf/cm²時也很低。
- 4.節省能源(馬力)。
- 5.結構堅固耐用，外型精巧。
- 6.泵的迴轉是順時針。

Drain Pipe

External drain control type. Drain connection must be piped directly to tank and back pressure must not exceed 0.3 bar.

Oil Temperature Range

Oil temperature range should be from 15°C~60°C during running operation and should be more than 7°C at starting.

Alignment and Installation of Pumps

In case the pump is connected to an electric motor , limit the defection of the alignment between the shafts to 0.05 mm TIR , and angle ± 1 degree.

Be sured the electric motor direction is accordingly with the pump's shaft before starting.

Suction Port min. Pressure

Suction port minimum working pressure is ± 0.03 bar.

Pressure Adjustment

The pressure will be increased with the pressure adjusting screw is turned clockwise and will be reduced when the adjusting screw is turned counter-clockwise.

Cautions for Starting

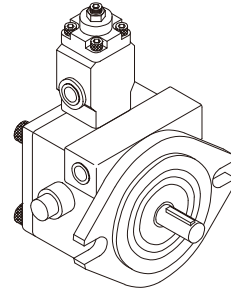
When the pump is to be operated for the first time , place the pump delivery side in NO-Load condition and repeat starting and stopping of the motor for several times to eject the air from inside of the pump and piping. If keep on 10 minutes operation will be much better.

- 7.作動油的黏度建議使用(VG32)。
- 8.泵的内漏回油管，必須單獨直接進入油箱，並且控制内漏的排油管壓力在0.3bar以內。
- 9.作動油的溫度最好在(15°~60°)之間。
- 10.泵與馬達心軸連接時的偏心量在0.05m/m或 $\pm 1^\circ$ 以內。
- 11.進油口的壓力必須控制在0.03bar以內。

VPKCF8
VPKCF12
VPKCF15
VPKCF20



SYMBOL



FEATURES 特點

Model	Operating Pressure (Kgf/cm ²)		Rated Speed (rpm)		Net Weight
			MAX	MIN	
VPKCF8	A1: 5-18 A3:30-55	A2:15-35 A4:50-70	1800	800	4.8Kg
VPKCF12	A1: 5-18 A3:30-55	A2:15-35 A4:50-70	1800	800	4.8Kg
VPKCF15	A1: 5-18 A3:30-55	A2:15-35 A4:50-70	1800	800	5.2Kg
VPKCF20	A1: 5-18 A3:30-55	A2:15-35 A4:50-70	1800	800	5.2Kg

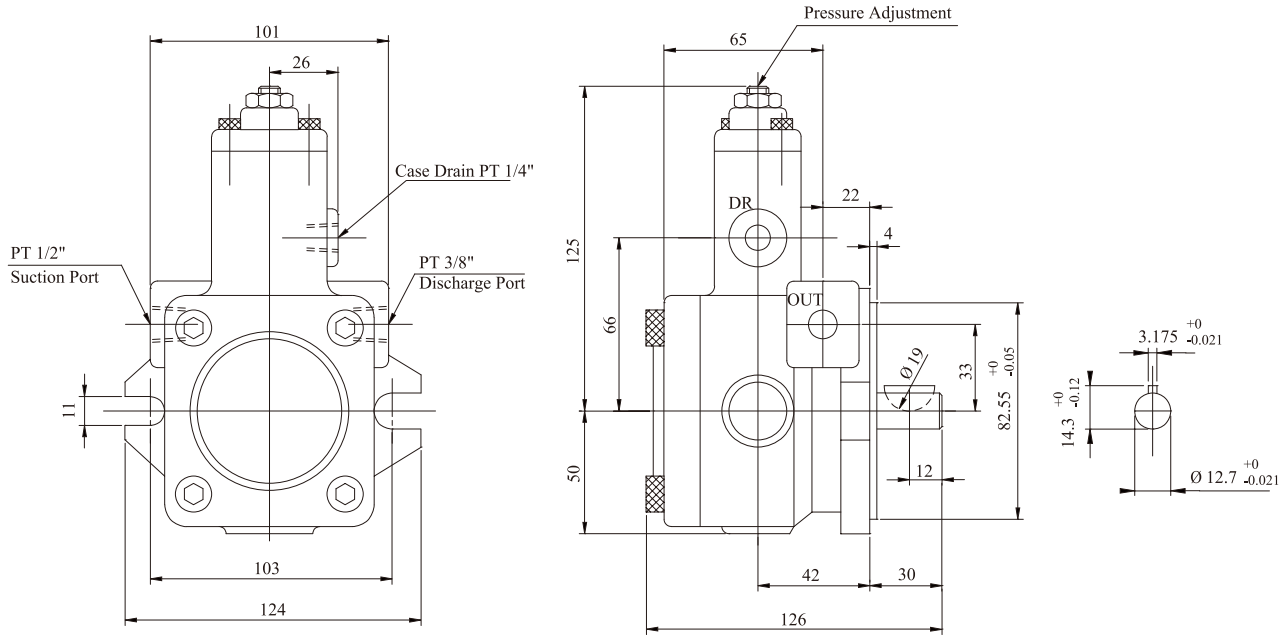
ORDERING CODE 訂購指引

VPKC-F*A*-01-A

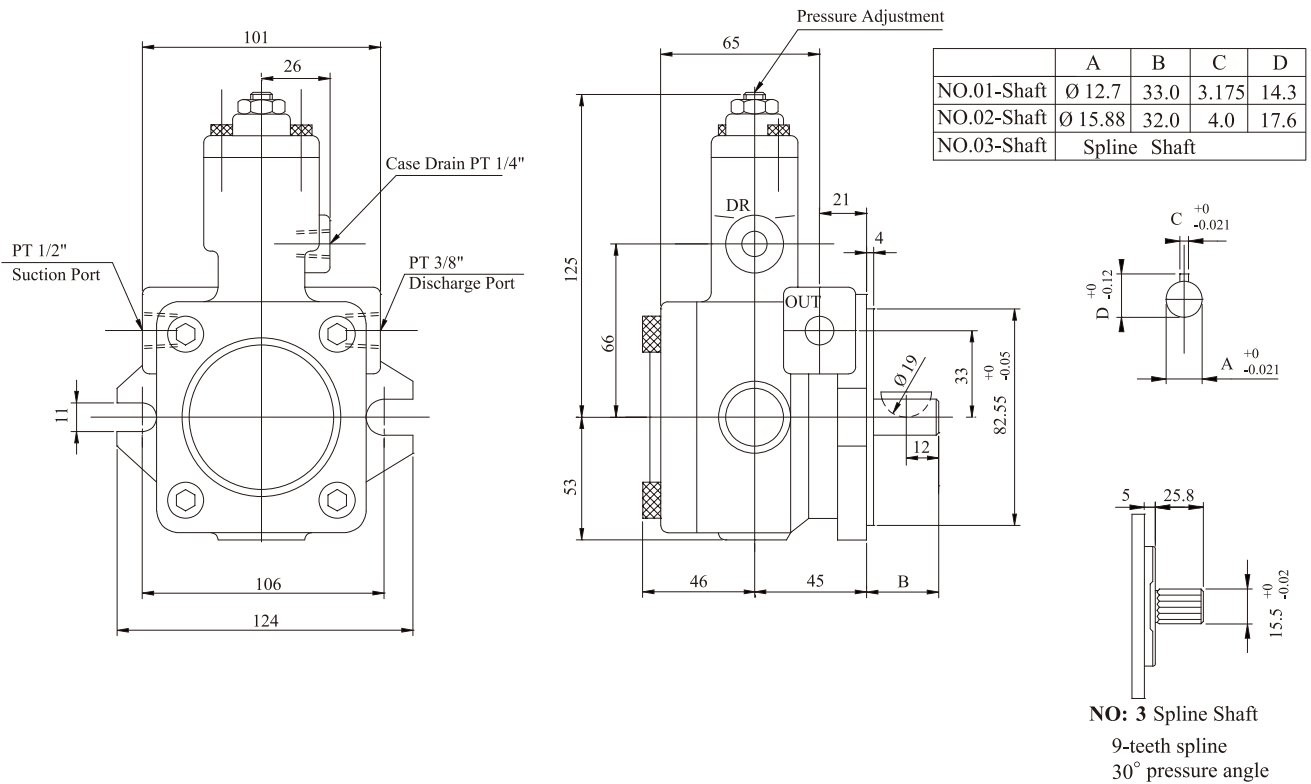
① ②③ ④ ⑤ ⑥

- ①—— Series Number
- ②—— Flange Type
- ③—— Output Flow at 1800rpm
8,12,15,20 (ℓ/min)
- ④—— Pressure Adjusting Range
1:5-18 2:15-35 (Kgf/cm²)
3:30-55 4:50-70
- ⑤—— Shaft Type
01:No.01 Shaft
02:No.02 Shaft
- ⑥—— Type of Suction Port & Discharge Port
A or No Marking: PT
B: NPT
C: SAE
D: BSP

VPKCF12

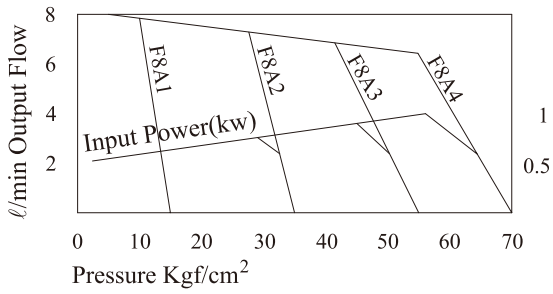


VPKCF20

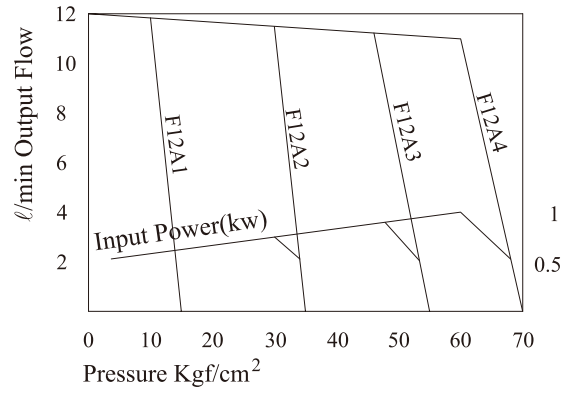


NO: 3 Spline Shaft
9-teeth spline
30° pressure angle

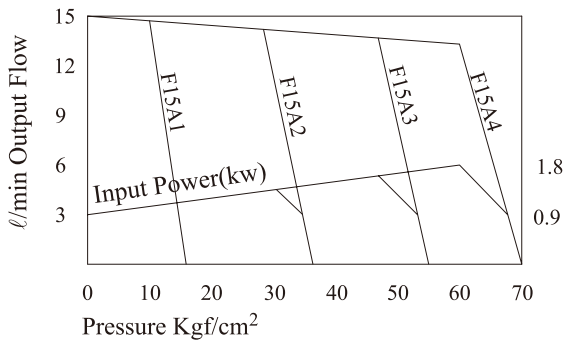
VPKCF8



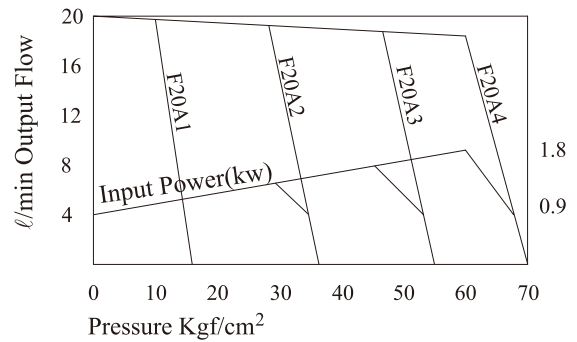
VPKCF12



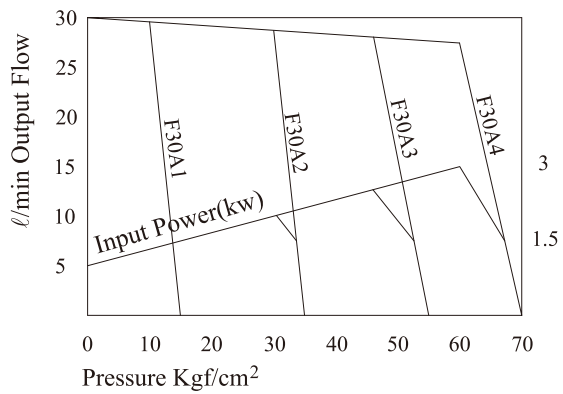
VPKCF15



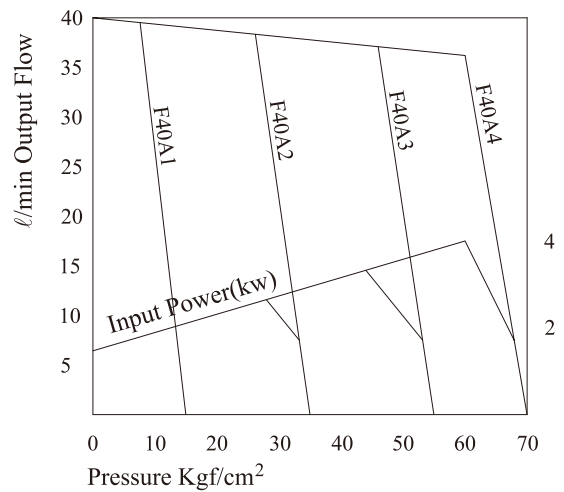
VPKCF20

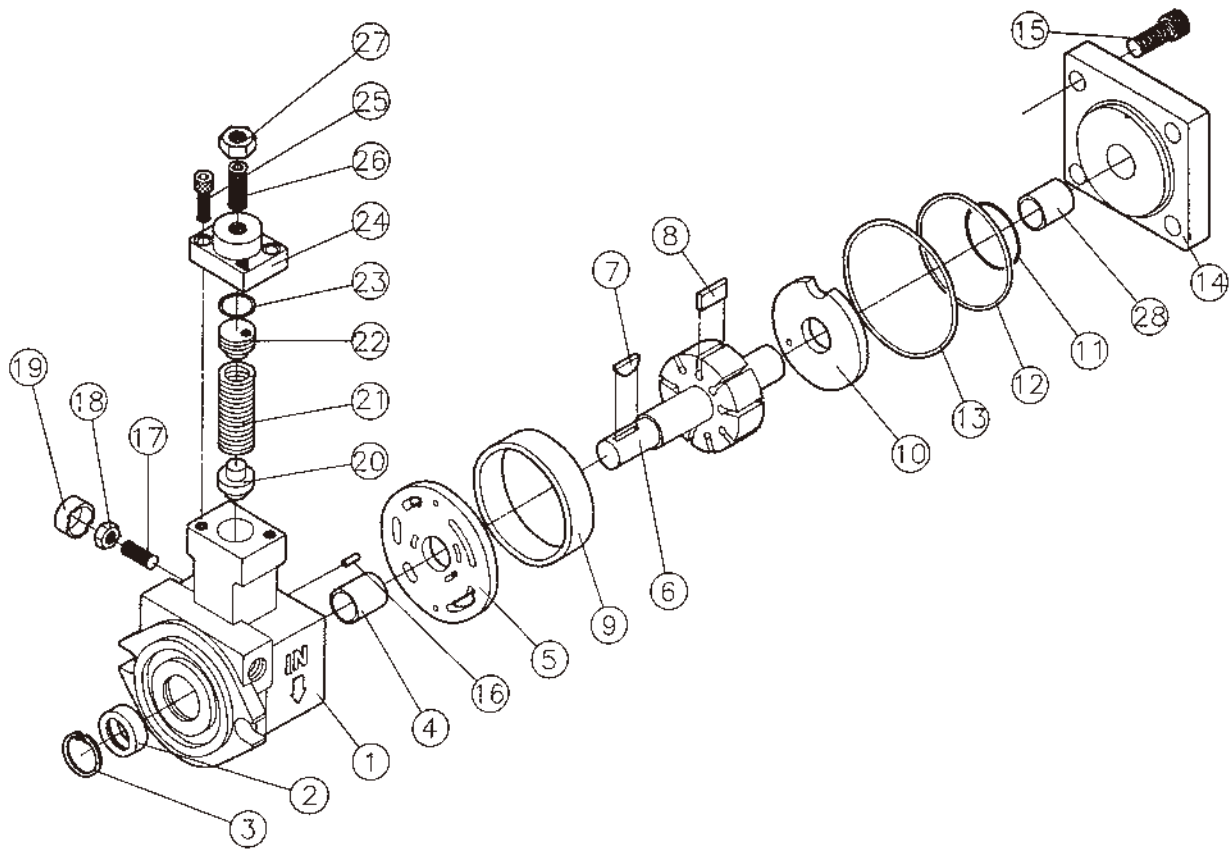


VPKCF30



VPKCF40





VPKC Single Pump Parts List

VPKC (F8、F12、F15、F20)系列單泵零件表

- | | |
|----------------------------|--|
| NO.1 Housing (體) | NO.17 O - Ring + Slide Screw (O型環+調中心螺絲) |
| NO.2 Seal (油封) | NO.18 Nut (螺帽) |
| NO.3 Retainer Ring (扣環) | NO.19 Protect Cover (保護蓋) |
| NO.4 Engine Bush (乾式軸承) | NO.20 Piston (雙頭活塞) |
| NO.5 Port Plate A (壓力板 A) | NO.21 Spring (彈簧) |
| NO.6 Rotor (轉子) | NO.22 Spring Retainer (彈簧承座) |
| NO.7 Woodruff Key (半圓鍵) | NO.23 O - Ring (O型環) |
| NO.8 Vanes (葉片) | NO.24 Cover (側蓋) |
| NO.9 Cam Ring (軸環) | NO.25 Socket Head Cap-Screw (側蓋螺絲) |
| NO.10 Port Plate B (壓力板 B) | NO.26 Socket Set Screw (調壓螺絲) |
| NO.11 O - Ring (O型環) | NO.27 Nut (螺帽) |
| NO.12 O - Ring (O型環) | |
| NO.13 O - Ring (O型環) | |
| NO.14 Cover (蓋) | |
| NO.15 Cap-Screw (上蓋螺絲) | |
| NO.16 Lock Pin (定位銷) | |