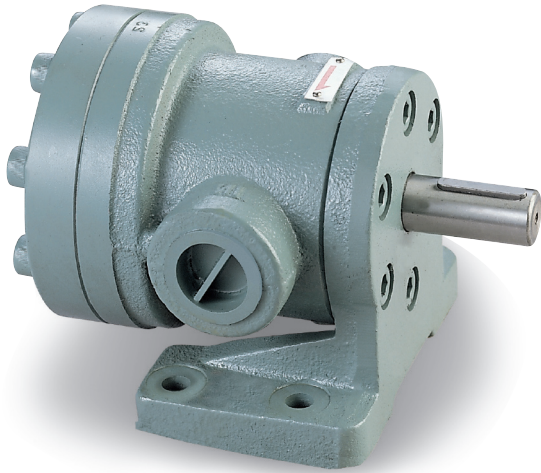




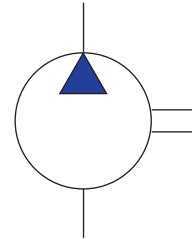
Fixed Displacement Vane Pump

定量輪葉泵浦



油壓記號

SYMBOL



型式號碼/MODEL CODE

VCM - 50T - 36 - L R

回轉方向 (由軸側方向觀之)

Direction of Rotation (Viewed from shaft end)

R: 順時針方向

R: Clockwise

L: 逆時針方向

L: Counterclockwise

安裝方式

Mounting Type

F: 法蘭

F: Flange Mounting

L: 腳座

L: Foot Mounting

流量: c.c./rev

Displacement

系列號碼:

Series No.

輪葉泵浦系列

Vane Pump Series

產品特性:

- 1.VCM-50T 及 150T 泵浦，具有消除油液所產生的渦流特性。安靜、平穩高效率，極適合高低壓系統中作為低壓泵浦的使用。
- 2.壓力平衡型結構，軸負荷小、壽命長、噪音小。
- 3.結構簡單，容易維護，法蘭型可直結馬達，安裝簡便。

FEATURE:

1. VCM-50T & 150T pump have the characteristics of diminishing the whirl in the hydraulic oil. It is quiet when operating and efficient. Suitable for being a low pressure pump in high-low pressure system.
2. Pressure balance structure produces lower axial loading pressure, and longer service life. Noise level is low.
3. Pump structure is simple and easy for maintenance. Flange mounting type could be directly connected with electric motor.



Fixed Displacement Vane Pump

定量輪葉泵浦

標準規格/RATINGS

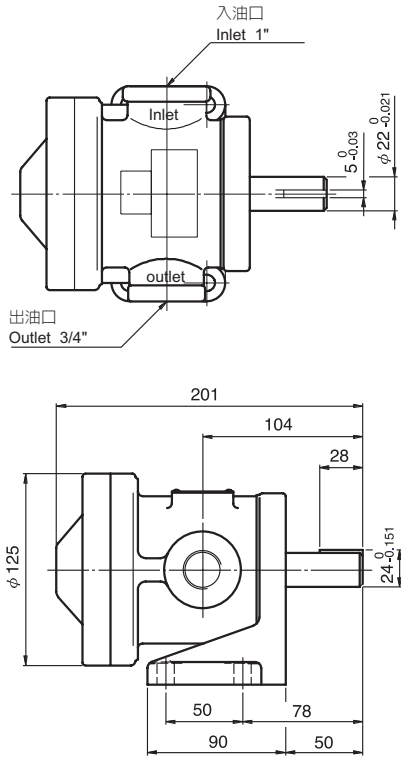
型式 MODEL	最高 壓力 MAX. PRESSURE (kgf/cm ²)	轉速 1200 rpm，工作油黏度 20cSt 時之特性 OPERATING CHARACTERISTICS AT 1200RMP W/20CST FLUID							容許回轉速 SHAFT SPEED RANGE (rpm)		重量 WEIGHT (kg)	
		回轉速 SHAFT SPEED (rpm)	吐出量 DELIVERY(L/MIN)			軸入力 POWER INPUT(KW)			最高 MAX.	最低 MIN.	腳座型 FOOT TYPE (kg)	法蘭型 FLANGE TYPE (kg)
			3.5 (kgf/cm ²)	35 (kgf/cm ²)	70 (kgf/cm ²)	3.5 (kgf/cm ²)	35 (kgf/cm ²)	70 (kgf/cm ²)				
50T-7	70	1200	7.9	6.9	5.7	0.20	0.82	1.51	2000	800	10.5	9
		1500	9.9	8.9	7.7	0.30	1.05	1.87				
		1800	11.9	10.9	9.7	0.34	1.26	2.28				
50T-12	70	1200	13.5	12.5	11.3	0.21	1.12	2.13	2000	600	10.5	9
		1500	16.8	15.8	14.6	0.31	1.42	2.70				
		1800	20.2	19.2	18.0	0.39	1.73	3.23				
50T-17	70	1200	19.2	18.2	17.0	0.30	1.48	2.80	1800	600	10.5	9
		1500	24.0	23.0	21.8	0.39	1.86	3.50				
		1800	28.8	27.8	26.6	0.52	2.28	4.23				
50T-23	70	1200	27.0	25.7	24.1	0.32	1.94	3.75	1800	600	10.5	9
		1500	33.7	32.4	30.8	0.47	2.50	4.73				
		1800	40.4	39.1	37.5	0.58	3.01	5.71				
50T-26	70	1200	30.0	28.5	26.6	0.40	2.33	4.47	1800	600	10.5	9
		1500	37.5	36.0	34.1	0.52	2.92	5.60				
		1800	45.0	43.5	41.6	0.71	3.57	6.73				
50T-36	70	1200	42.0	40.4	38.4	0.52	3.18	6.15	1800	600	10.5	9
		1500	52.5	50.9	48.9	0.72	3.95	7.60				
		1800	63.0	61.4	59.4	0.98	4.83	9.18				
150T-48	70	1200	47.0	43.5	40.0	0.9	3.9	7.2	1500	600	26	25
		1500	56.5	53.0	49.5	1.1	4.7	8.6				
		1800	70.5	67.0	63.5	1.4	5.8	10.7				
150T-61	70	1200	60.0	56.5	50.	1.1	4.8	8.8	1500	600	26	25
		1500	72.0	68.5	65.0	1.3	5.7	10.5				
		1800	90.0	86.5	83.0	1.7	7.1	13.1				
150T-75	70	1200	73.7	70.5	66.0	1.3	5.6	10.3	1500	600	26	25
		1500	88.5	84.5	81.0	1.5	6.7	12.4				
		1800	111.0	107.0	103.5	1.9	8.3	15.5				
150T-94	70	1200	92.5	88.0	82.5	1.4	6.8	12.8	1200	600	26	25
		1500	111	106.5	101.0	1.7	8.3	15.4				
150T-116	70	1800	116.0	110.0	103.0	1.7	8.5	16.1	1200	600	26	25
		1200	139.0	133.0	126.0	2.0	10.3	19.3				



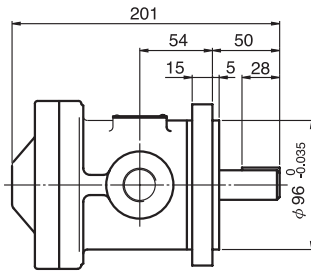
Fixed Displacement Vane Pump

定量輪葉泵浦

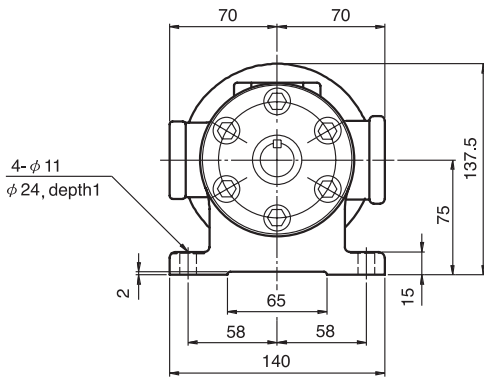
•VCM-50T-※-L (腳座安裝型/FOOT TYPE)



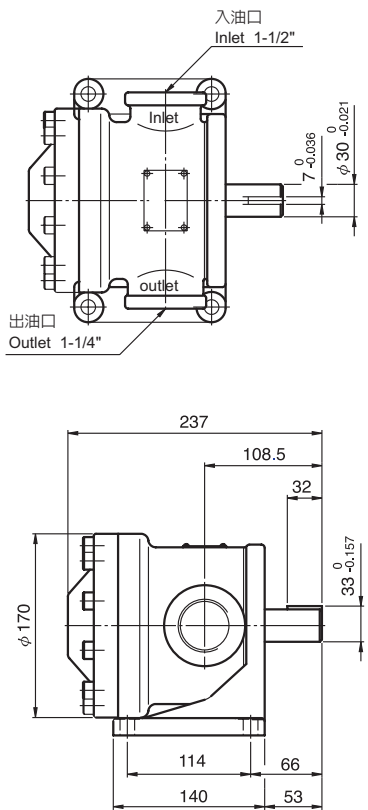
•VCM-15T-※-F (法蘭安裝型/FLANGE TYPE)



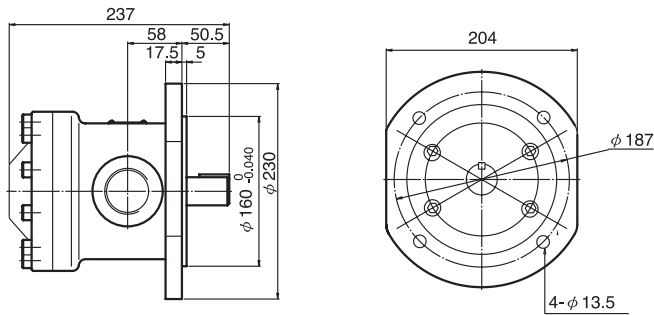
其餘尺寸請參見法蘭安裝型—Other measurements refer to the type of flange



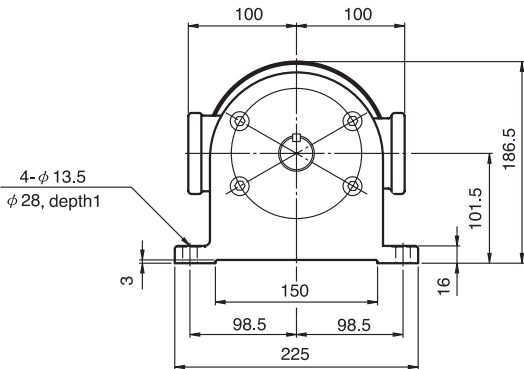
•VCM-150T-※-L (腳座安裝型/FOOT TYPE)



•VCM-150T-※-F (法蘭安裝型/FLANGE TYPE)



其餘尺寸請參見法蘭安裝型—Other measurements refer to the type of flange





Fixed Displacement Vane Pump
定量輪葉泵浦

注意事項

1.保持液壓油純淨，防止異物混入系統

污染的液壓油容易引起葉片泵浦故障及減少其壽命，為使壓油保持在NAS10級內，應在吸入口安裝一個100um(150目)的濾油器，濾油器應在最少離油箱底部50mm。

2.準確的軸心同心度

安裝泵浦請儘可能使用聯軸器，以避免因彎曲或偏心所產生的任何應力，最大軸向允差0.25mm，容許最大角度誤差為0.2度。

3.吸入壓力

泵浦吸入壓力數值請見附表。

泵浦吸入壓力數值請見附表：

型式 MODEL	吸入壓力 SUCTION PRESSURE		
	最低吸入壓力 MINMUM		最高吸入壓力 MAXIMUM
	石油積系液壓油 PATROLEUM BASE OIL	磷酸脂液含水液壓液 WATER GLYCOL FLUID	
50T,150T	-20kPa(-150mmHG)	-16kPa(-120mmHG)	+140kPa(+1.4kgf/cm ²)
1M,2M,3M	-20kPa(-150mmHG)		
12M,13M,23M	-20kPa(-150mmHG)		

4.啓動注意事項

在初次工作或長期停止運轉重新啓動時可能會產生吸油較為困難，為此應預先在輸出口端安裝排氣閥，或稍為鬆開出口端接頭，以便排出空氣，並請儘可能在零負載狀況下進行點動方式啓動。

5.其他注意事項

若是VCM-*M系列泵浦工作轉速低於1200 rpm 時，請於安裝時將泵浦吸入口朝上，以便啓動時易於吸油。

CAUTION

1.Keep hydraulic oil clean and prevent any contamination.

Polluted hydraulic oil will cause the malfunction of the pump, as a result, decreasing the service life of it. In order to maintain the pressured oil within NAS10, it is necessary to install a 100um suction strainer and it has to at least be kept 50mm from the bottom of tank.

2.Precise axial concentric angel

We recommend using coupling when installing the pump to avoid any off center or distortion. The maximum axial allowance is 0.25mm and the maximum angel allowance is 0.2 degree.

3.Suction Pressure

Please refer to following table

4.Start-up Operation

When the pump is to be operated for the first time or re-start after stopping for a long period of time. The bleed valve should be mounted in the outlet side or screw off the nipple a little bit of. The motor should be started on an off a number of times in no-load stste in order to bleed the air from within the pump.

5.Others

When the rotation speed is lower than the 1200 rpm for VCM-*M series. It is suggested to keep the suction port in the up side when mounting.