

KCL[®]

A1009

HYDRAULIC EQUIPMENTS

2019

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1. In fixed displacement vane pump system, the open circuit is recommended.
2. Set Suction Port, the fluid transmission speed at the pump: must be between 0.6M/sec~1.5M/sec
(Please refer to Page No.61)
3. Set Discharge Port, the fluid transmission speed : must be between 2.3M/sec~4.75M/sec
(Please refer to Page No.61)
4. Set Suction , at the pump Suction Port must be between - 150mmHg ~ + 0.5Kgf/cm²
5. Lay the suction piping under the fluid level at least 1M
6. When connecting the pump to an electric motor, limit the tolerance of alignment between the two shaft centers to 0.05m/m TIR or angle ± 1 degree
7. Before starting, make sure that direction of the electric motor shaft rotates the same direction with the pump shaft as indicated with an the nameplate or on the housing of the pump
8. When the pump is 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.
9. Viscosity range for a fixed displacement vane pump:(Please refer to Page No.60)
800 mm²/sec maximum for starting with delivery
200 mm²/sec maximum for starting at zero stroke
16 mm²/sec minimum at maximum operating temperature
10. In selecting a hydraulic fluid, remember that the minimum permitted temperature in the hydraulic system must be at least 8° C above the pour point.
11. **Air Bleed**
All the time of first-starting, if the pump does not immediately prime, air should be bled from the pump delivery line. This may be accomplished by loosening a connection in the delivery line close to the pump until oil flows-indicating the pump has primed. An air bleed valve is available for this purpose.
12. **Water-in-Oil Emulsions**
Water-in-oil emulsions may be used. However, they require careful selection and monitoring of the fluid. (Please refer to Page No.9)
13. **Synthetic Fire Resistant Fluids**
Phosphate esters and their blends with operating viscosity of the petroleum oil described above may be used. These fluids are generally compatible with fluorocarbon and silicone elastomers.
(Please refer to Page No.9)
14. **Filtration Requirements**
For satisfactory service life of components, use full flow filtration to provide fluid cleanliness conforming to ISO code 18 / 15 or better.
 1. 定量泵大部分採用開放迴路。
 2. 泵進油管的流量每秒在0.6~1.5米之間為宜。(參考61頁)
 3. 出油管的流量控制在每秒2.3~4.75米為宜。
 4. 進油口的壓力控制在-150mmHg~+0.5Kgf/cm²。
 5. 進油管之長度控制在1米以內。
 6. 安裝泵與驅動軸之間的偏心量為0.05mm或 $\pm 1^\circ$ 。
 7. 泵啟動前,先確認泵之轉向與驅動是否一致。
 8. 第一次泵之啟動,必須在出油端無壓力負荷的情況下,並最好先寸動幾次。
 9. 泵啟動的黏度不能大於200mm²/sec,尤其在低轉速啟動時更為明顯。(參考60頁)
10. 油箱的溫度最好能大於8°C。
11. 在第一次泵啟動時,如出油端無法順利排油,則須先排放空氣。
12. 油包水乳化液雖然可以使用,但使用壓力與轉速必須下降30%。(參考9頁)
13. 如使用非燃性液壓油時,則必須告訴工廠,因密封件材質不同。
14. 作動油必須有良好的過濾,油品質須符合ISO 18/15或更好油品。

HVQ20 訂購指引

Model	Maximum pressure Mpa (kgf/cm ²) 最高工作壓力			
	using anti-wear oil or phosphate ester fluid 抗磨作動油		using water glycol fluid 水乙二醇作動液	
	Cont. (連續)	Peak. (瞬間)	Cont. (連續)	Peak. (瞬間)
HVQ20 - 4	408 kgf/cm ²	450 kgf/cm ²	255 kgf/cm ²	280 kgf/cm ²
HVQ20 - 6				
HVQ20 - 8				
HVQ20 - 11				
HVQ20 - 14	357 kgf/cm ²	380 kgf/cm ²	255 kgf/cm ²	280 kgf/cm ²
HVQ20 - 17				
HVQ20 - 19				
HVQ20 - 23				

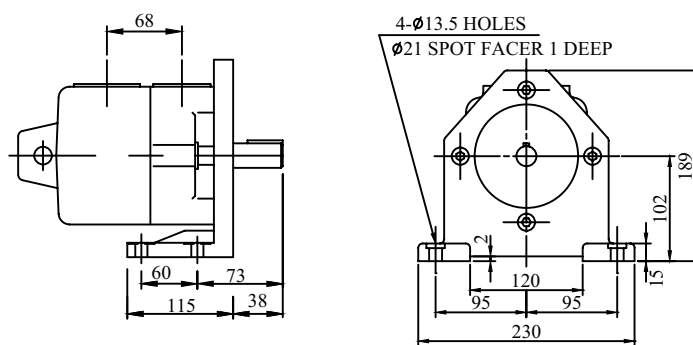
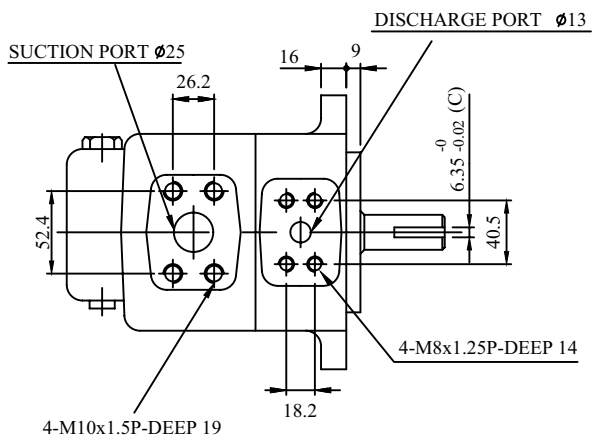
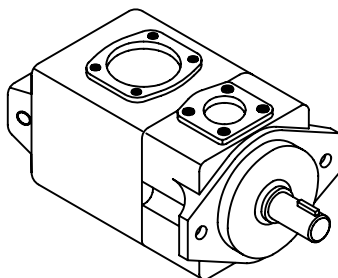
Model	Running Speed r/min(rpm)			
	Max (rpm) 最高轉速			
	using anti-wear oil or phosphate ester fluid 抗磨作動油		using water glycol fluid 水乙二醇液	using water-in-oil emulsions 油包水乳化液
	Max (rpm)	Min (rpm)		
HVQ20 - 4	3000	800	1800	1800
HVQ20 - 6	2500	800		
HVQ20 - 8				
HVQ20 - 11	2300	800		
HVQ20 - 14	1800	800		
HVQ20 - 17				
HVQ20 - 19				
HVQ20 - 23				

ORDERING CODE

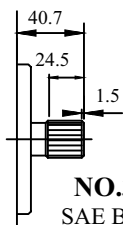
Weight: 18.1 Kg

HVQ20	-19	-F	-R	A	A	-01	-01
Model number	Displacement c.c/rev	Mounting Type	Rotation	Discharge Position	Suction Position	Shaft Type	Output Dimensional
HVQ20	4, 6, 8, 11 14, 17, 19, 23	F: Flange Type 法蘭型 L: Foot Type 腳座型	View from Shaft End 從心軸方向看 R: Clockwise 順時針 L: Anti- Clockwise 反時針	A: Upward (Normal) 向上 B: Downward 向下 R: On Right Hand 右邊 L: On Left Hand 左邊	A: Upward (Normal) 向上 B: Downward 向下 R: On Right Hand 右邊 L: On Left Hand 左邊	01:Normal 03:	01:Normal

HVQ20



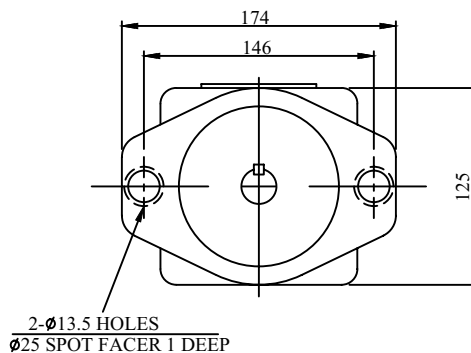
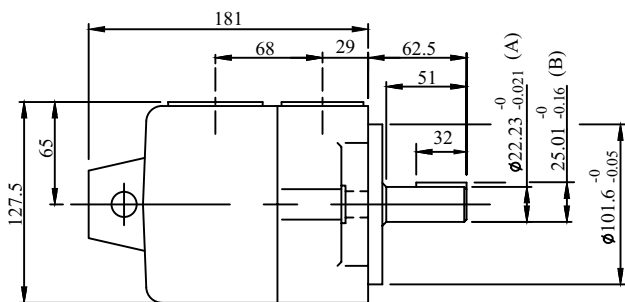
Foot Type (腳座型)

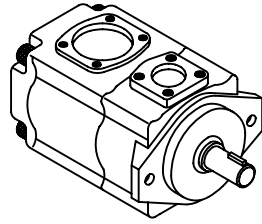


NO.3 Shaft

SAE B-B splined shaft
Class 1-J498 b 16/32 d.p.
-13 teeth 30° pressure
angle flat root side fit

	A	B	C
N0.01-Shaft	Ø 22.23	25.01	6.35
N0.03-Shaft	Spline Shaft		





DVQ20

Weight : Flange Type 12.5 Kg
Foot Type 15 Kg

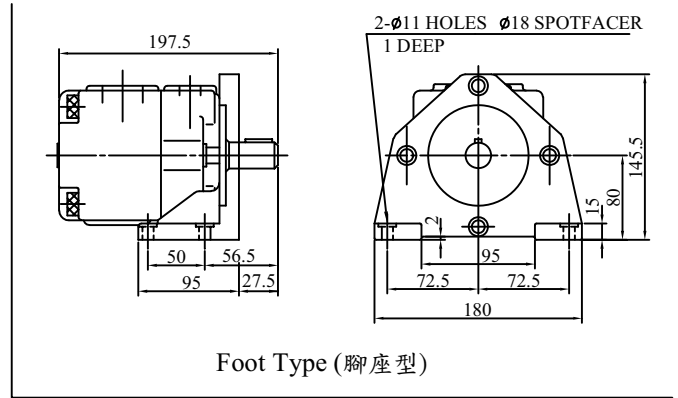
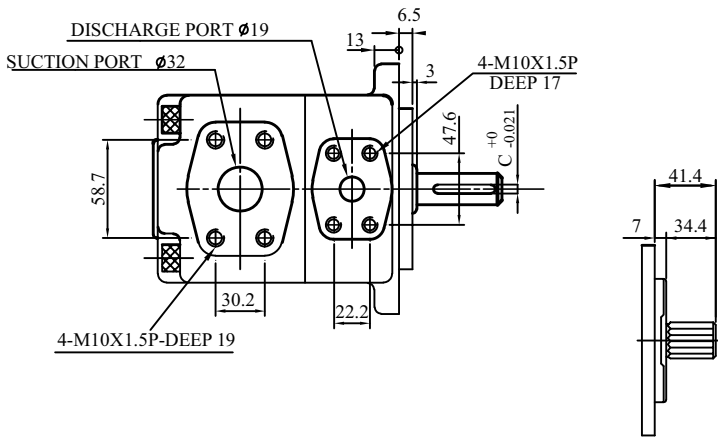
DVQ25

Weight : Flange Type 18 Kg
Foot Type 23 Kg

	-26	-F	-R	A	A	01
Model number 型號	Displacement c.c/rev 吐油量	Mounting Type 安裝方式	Rotation 轉向	Discharge Position 出口位置	Suction Position 進口位置	Shaft Type 心軸種類
DVQ20	6,8,11,14 17,19,23 26,32,34 38,44	F: Flange Type 法蘭型 L: Foot Type 腳座型	View from Shaft End 從心軸方向看 R: Clockwise 順時針 L: Anti- Clockwise 反時針	A: Upward (Normal) 向上 B: Downward 向下 R: On Right Hand 右邊 L: On Left Hand 左邊	A: Upward (Normal) 向上 B: Downward 向下 R: On Right Hand 右邊 L: On Left Hand 左邊	01: Normal
DVQ25	18,22,26 32,38,43 47,52,60 65,75					

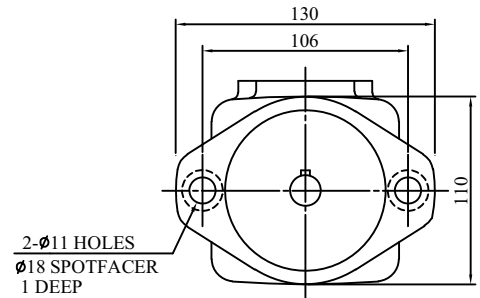
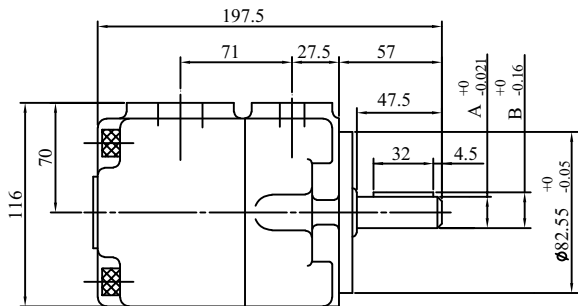
Model 型號		Deliver Flow (ℓ /min) at no-load pressure 無負壓的傳輸流量				Running Speed (rpm) 轉速		Max Pressure (Kg/cm ²) 最高壓力	
		Running Speed (rpm) 轉速				Max 最大	Min 最小	Cont.	Peak.
		1000	1200	1500	1800				
DVQ20	06	6.2	7.4	9.3	11.2	1800	800	210	260
	08	8.1	9.7	12.1	14.6	1800	800	210	260
	11	11.2	13.4	13.4	20.1	1800	800	210	260
	14	14.3	17.1	21.5	25.7	1800	800	210	260
	17	17.1	20.5	25.6	30.7	1800	800	210	260
	19	19.2	23.0	28.8	34.5	1800	800	210	260
	23	23.3	27.9	34.9	41.9	1800	800	210	260
	26	26.1	31.3	39.1	46.9	1800	800	210	260
	32	32.1	38.3	47.6	—	1500	800	175	240
	34	34.1	40.8	50.4	—	1500	800	175	240
	38	38.1	45.9	—	—	1200	800	175	240
44	44.1	52.9	—	—	1200	800	175	210	
DVQ25	18	18.1	21.7	27.2	32.6	1800	800	210	260
	22	22.1	26.5	33.3	39.8	1800	800	210	260
	26	26.2	31.4	39.3	47.1	1800	800	210	260
	32	32.1	38.5	48.1	57.7	1800	800	210	260
	38	38.2	45.8	57.3	68.7	1800	800	210	260
	43	43.2	51.8	64.8	77.7	1800	800	210	260
	47	47.1	56.5	70.0	85.0	1800	800	210	260
	52	52.3	62.7	78.4	94.1	1800	800	210	260
	60	60.2	72.7	90.3	108.3	1800	800	210	260
	65	65.3	78.3	97.9	117.5	1800	800	210	230
	75	75.0	90.0	112.5	—	1500	800	210	230

DVQ20 Max. Pressure: 260 Kg/cm² (Peak)
Max. Speed: 1800 rpm

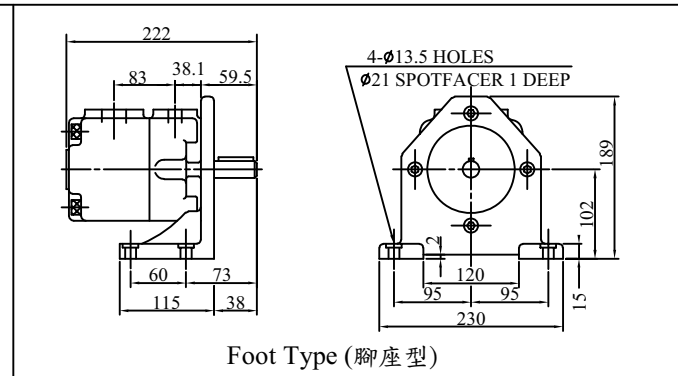
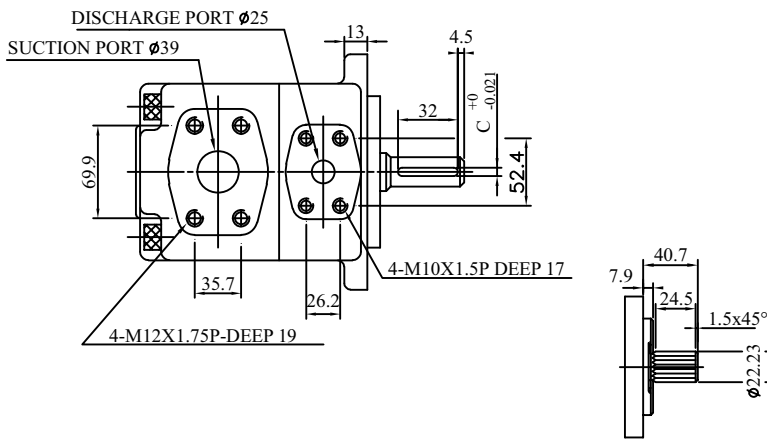


NO.04-Shaft
13-Teeth Spline
7/8" (22.225) DIA
30° pressure angle
Flat root side fit

	A	B	C
NO.01-Shaft	$\phi 19.05$	21.24	4.76
NO.02-Shaft	$\phi 22.23$	24.5	4.76
NO.03-Shaft	$\phi 22.23$	25.01	6.35
NO.04-Shaft	Spline shaft		

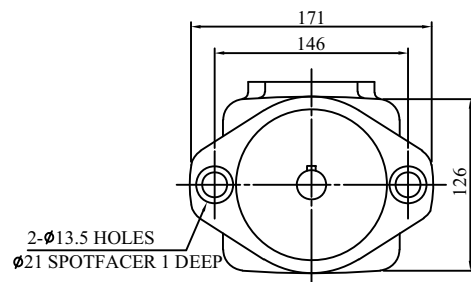
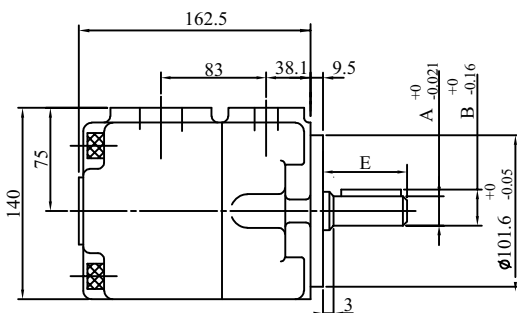


DVQ25 Max. Pressure: 260 Kg/cm² (Peak)
Max. Speed: 1800 rpm

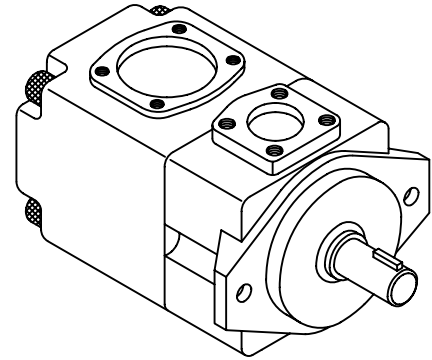


NO.04-Shaft
16/32 d.p.
-13 teeth
30° pressure angle
Flat root side fit.

	A	B	C	E
NO.01-Shaft	$\phi 22.23$	24.5	6.35	50.5
NO.02-Shaft	$\phi 25.4$	28.18	6.35	50.5
NO.03-Shaft	$\phi 30$	33	7	59
NO.04-Shaft	Spline shaft			



VQ15
VQ20 SVQ25
VQ25 SVQ35
VQ35 SVQ45
VQ45 DVQ45



ORDERING CODE 訂購指引

VQ15	-17	F	R	A	A	-01
Model number 型號	Displacement c.c/rev (吐出量)	Mounting Type 安裝方式	Rotation 轉向	Discharge Position 出口位置	Suction Position 進口位置	Shaft Type 心軸種類
VQ15	6,8,11,14,17, 19,23,26,31,38	F: Flange Type 法蘭型 L: Foot Type 腳座型	View from Shaft End 從心軸方向看 R: Clockwise 順時針 L: Anti- Clockwise 逆時針	A: Upward (Normal) 向上	A: Upward (Normal) 向上	-01 -02 -03
VQ20	6,8,11,14,17, 19,23,26,31, 38			B: Downward 向下	B: Downward 向下	
VQ25 SVQ25	18,22,26,32, 38,43,47,52, 60,65,75			R: On Right Hand 右邊	R: On Right Hand 右邊	
VQ35 SVQ35	60,66,76,82, 88,94,108, 116,125			L: On Left Hand 左邊	L: On Left Hand 左邊	
VQ45 SVQ45 DVQ45	136,156,189, 200,216,237					

SINGLE PUMP WEIGHT LIST (Kg) 單泵重量表

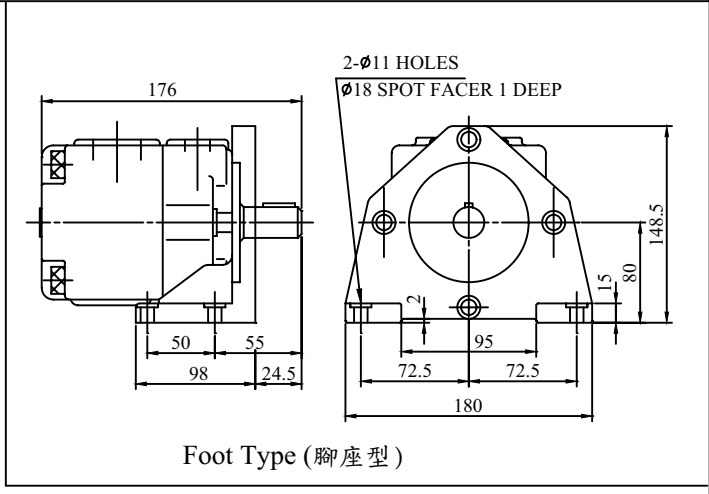
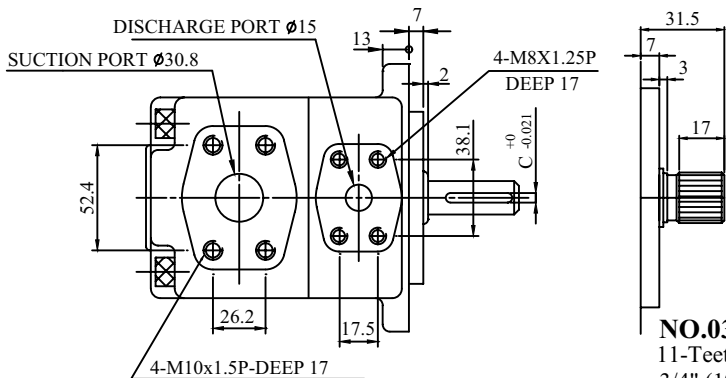
	VQ15	VQ20	VQ25	SVQ25	VQ35	SVQ35	VQ45	DVQ45	SVQ45
Flange Type	10.3	12.3	16.7	23	36	33	52	61	66.5
Foot Type	12.7	17	21.4	31	44	41	60	92	98
Outlet & Inlet Flange	0.9	0.9	1.6	1.6	2.0	2.0	3.2	3.2	3.2

VQ 系列工作壓力說明

Model 型號	Geometric displ. (c.c/rev) 吐出量	Using anti-wear oil or Phosphate ester fluid 使用抗磨液壓油		Using water glycol fluid 使用水乙二醇液		Using water-in-oil emulsions 使用油包水乳化液		Min Speed (rpm) 最低轉速
		Max Pressure (Kgf/cm ²) 最高壓力	Max Speed (rpm) 最高轉速	Max Pressure (Kgf/cm ²) 最高壓力	Max Speed (rpm) 最高轉速	Max Pressure (Kgf/cm ²) 最高壓力	Max Speed (rpm) 最高轉速	
VQ15	06	210	1800	160	1200	140	1200	800
	08							
	11							
	14							
	17							
	19							
	23							
	26							
	31	175	1500					
38	1200							
VQ20	06	210	1800	160	1200	140	1200	800
	08							
	11							
	14							
	17							
	19							
	23							
	26							
	31	175	1500					
38	1200							
VQ25 SVQ25	18	210	1800	160	1200	140	1200	800
	22							
	26							
	32							
	38							
	43							
	47							
	52							
	60							
	65	1500						
75								
VQ35 SVQ35	60	175	1800	160	1200	140	1200	600
	66							
	76							
	82							
	88							
	94							
	108							
	116	1500						
125								
VQ45 SVQ45 DVQ45	136	175	1800	140	1200	140	1200	600
	156							
	189							
	200							
	216		1500					
237								

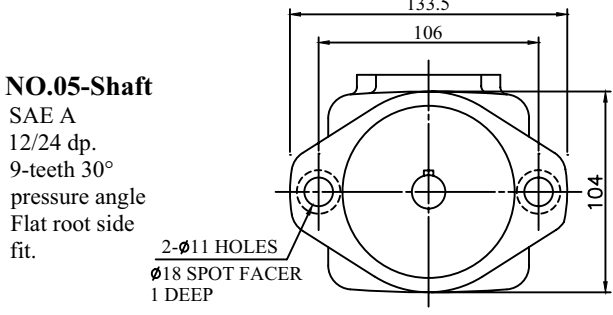
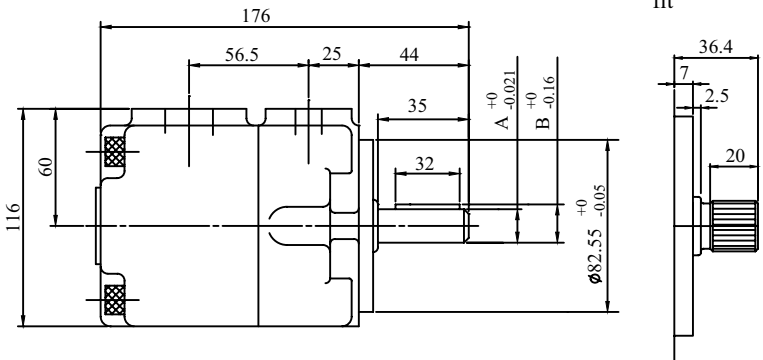
Model 型號		Delivery Flow (ℓ/min) at no-load pressure 無負壓的傳輸流量				Running Speed (rpm) 轉速		Max Pressure (Kgf/cm ²) 最大壓力	
		Running Speed (rpm) 轉速				Max 最大	Min 最小	Cont.	Peak.
		1000	1200	1500	1800				
VQ15	06	6.2	7.4	9.3	11.2	1800	800	210	240
	08	8.1	9.7	12.1	14.6	1800	800	210	240
	11	11.2	13.4	16.8	20.1	1800	800	210	240
	14	14.3	17.1	21.5	25.7	1800	800	210	240
	17	17.1	20.5	25.6	30.7	1800	800	210	240
	19	19.2	23.0	28.8	34.5	1800	800	210	240
	23	23.3	27.9	34.9	41.9	1800	800	210	240
	26	26.1	31.3	39.1	46.9	1800	800	210	240
	31	31.1	37.3	46.6	——	1500	800	175	240
	38	38.1	45.6	——	——	1200	800	175	230
VQ20	06	6.2	7.4	9.3	11.2	1800	800	210	230
	08	8.1	9.7	12.1	14.6	1800	800	210	230
	11	11.2	13.4	16.8	20.1	1800	800	210	230
	14	14.3	17.1	21.5	25.7	1800	800	210	230
	17	17.1	20.5	25.6	30.7	1800	800	210	230
	19	19.2	23.0	28.8	34.5	1800	800	210	230
	23	23.3	27.9	34.9	41.9	1800	800	210	230
	26	26.1	31.3	39.1	46.9	1800	800	210	230
	31	31.1	37.3	46.6	——	1500	800	175	230
	38	38.1	45.6	——	——	1200	800	175	230
VQ25 SVQ25	18	18.1	21.7	27.2	32.6	1800	800	210	230
	22	22.1	26.5	33.2	39.8	1800	800	210	230
	26	26.2	31.4	39.3	47.1	1800	800	210	230
	32	32.1	38.5	48.1	57.7	1800	800	210	230
	38	38.2	45.8	57.3	68.7	1800	800	210	230
	43	43.2	51.8	64.8	77.7	1800	800	210	230
	47	47.1	56.5	70.0	85.0	1800	800	210	230
	52	52.3	62.7	78.4	94.1	1800	800	210	230
	60	60.2	72.7	90.3	108.3	1800	800	210	230
	65	65.3	78.3	97.9	117.5	1800	800	210	230
VQ35 SVQ35	75	75.0	90.0	112.5	——	1500	800	210	230
	60	60.3	72.3	90.4	108.5	1800	600	175	210
	66	66.4	79.6	99.6	119.5	1800	600	175	210
	76	76.3	91.5	114.4	137.3	1800	600	175	210
	82	82.2	98.6	123.3	147.9	1800	600	175	210
	88	88.3	105.9	132.4	158.9	1800	600	175	210
	94	94.5	113.4	141.7	170.1	1800	600	175	210
	108	108.2	129.8	162.3	194.4	1800	600	175	210
	116	116.1	139.3	174.1	208.9	1800	600	175	210
	125	124.6	149.5	186.9	——	1500	600	175	210
VQ45 SVQ45 DVQ45	136	136.8	164.0	204.0	246.0	1800	600	165	175
	156	156.2	188.0	234.0	280.0	1800	600	165	175
	189	189.5	227.0	284.0	340.0	1800	600	165	175
	200	200.0	240.0	300.0	360.0	1800	600	165	175
	216	216.0	260.0	324.0	——	1500	600	165	175
237	237.0	285.0	355.0	——	1500	600	165	175	

VQ15 Max. Pressure: 240 Kg/cm² (Peak)
Max. Speed: 1800 rpm

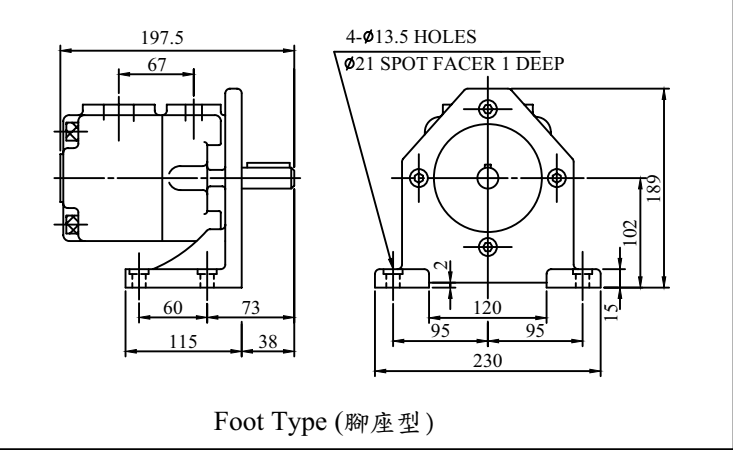
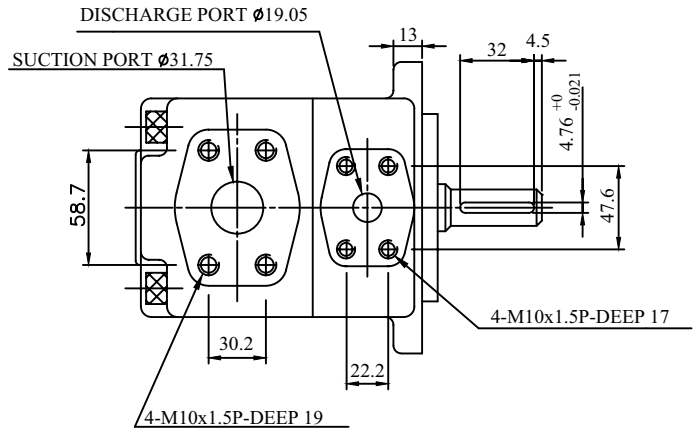


NO.03-Shaft
11-Teeth Spline
3/4" (19.05)DIA
30° pressure angle Flat root side fit

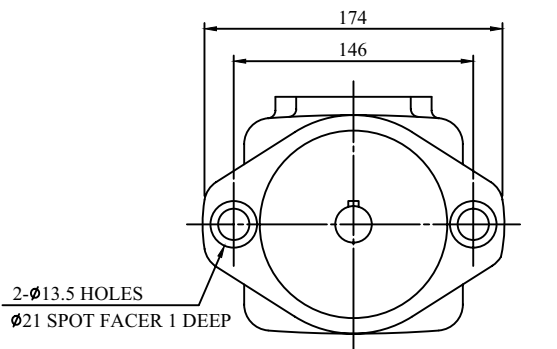
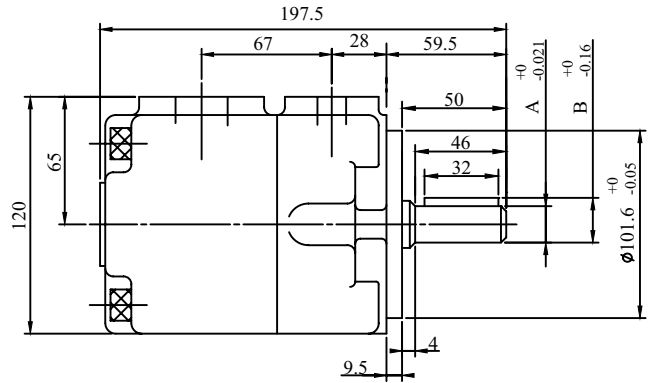
	A	B	C
NO.01-Shaft	$\phi 19.05$	21.24	4.76
NO.03-Shaft	Spline shaft		
NO.05-Shaft	Spline shaft		



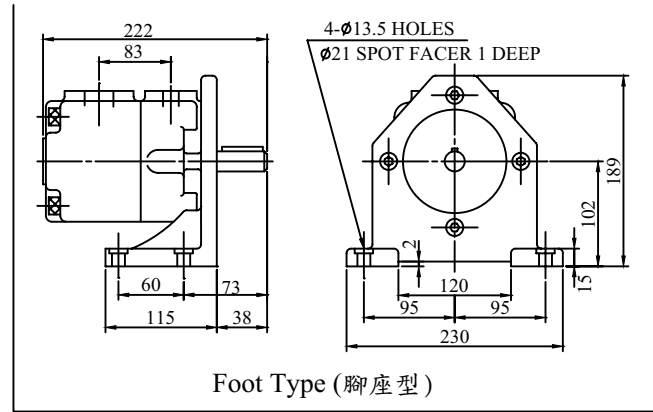
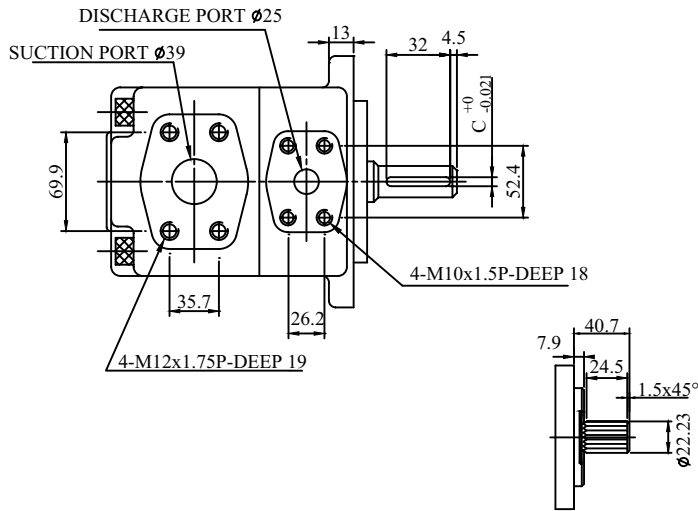
VQ20 Max. Pressure: 230 Kg/cm² (Peak)
Max. Speed: 1800 rpm



	A	B	C
NO.01-Shaft	$\phi 22.23$	24.5	4.76
NO.02-Shaft	$\phi 25.4$	28.18	6.35
NO.03-Shaft	$\phi 22.23$	24.94	6.35

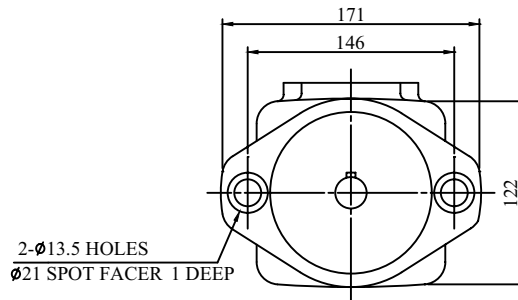
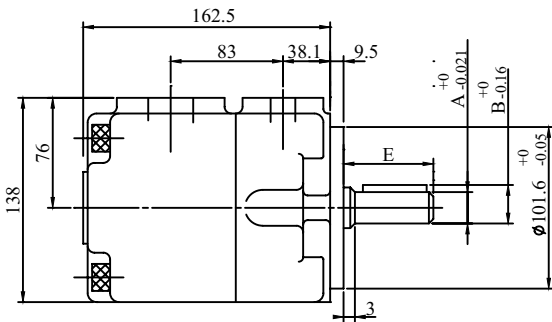


VQ25 Max. Pressure: 230 Kg/cm² (Peak)
Max. Speed: 1800 rpm

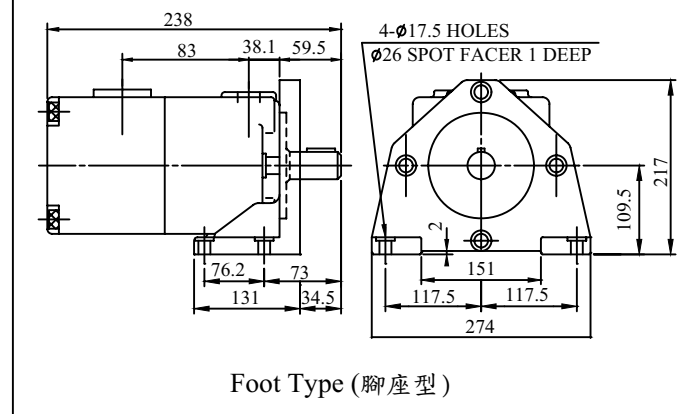
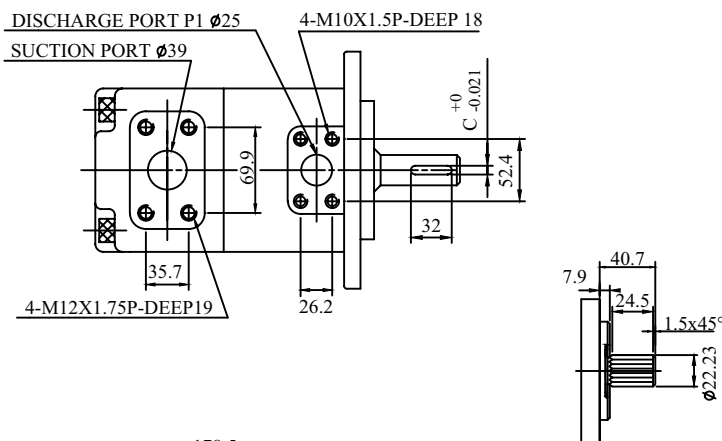


NO.04-Shaft
16/32 d.p. -13
teeth 30°
pressure angle
Flat root side fit.

	A	B	C	E
NO.01-Shaft	$\phi 22.23$	24.5	6.35	50.5
NO.02-Shaft	$\phi 25.4$	28.18	6.35	50.5
NO.03-Shaft	$\phi 30$	33	7	59
NO.04-Shaft	Spline shaft			

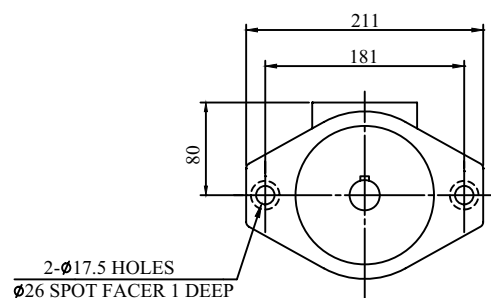
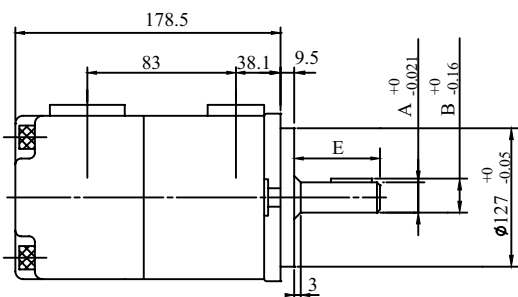


SVQ25 Max. Pressure: 230 Kg/cm² (Peak)
Max. Speed: 1800 rpm

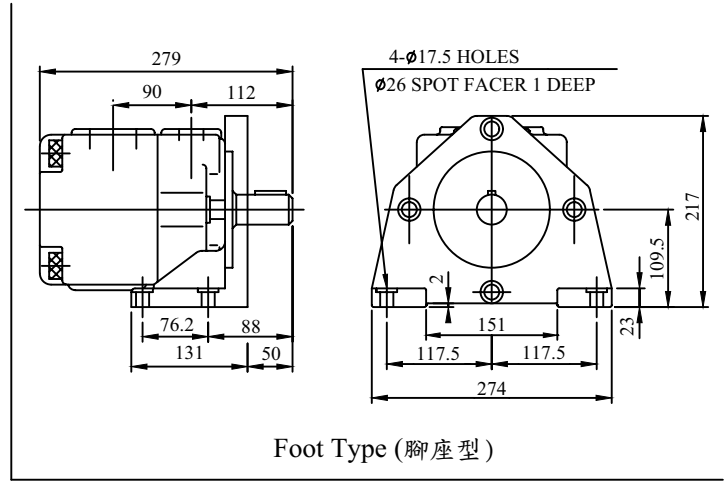
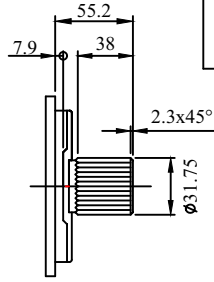
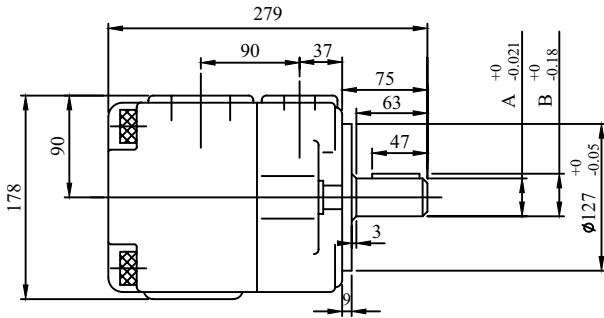
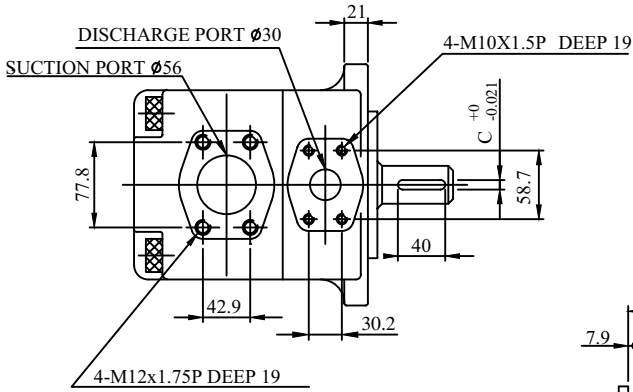


NO.04-Shaft
16/32 d.p. -13
teeth 30°
pressure angle
Flat root side fit.

	A	B	C	E
NO.01-Shaft	$\phi 22.23$	24.5	6.35	50.5
NO.02-Shaft	$\phi 25.4$	28.18	6.35	50.5
NO.03-Shaft	$\phi 30$	33	7	59
NO.04-Shaft	Spline shaft			

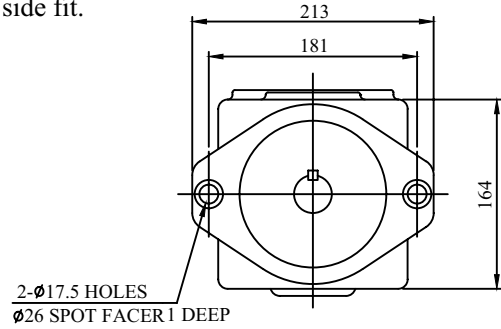


VQ35 Max. Pressure: 210 Kg/cm² (Peak)
Max. Speed: 1800 rpm

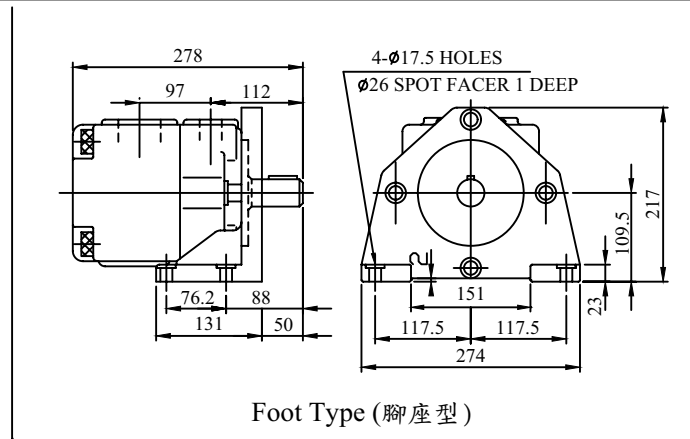
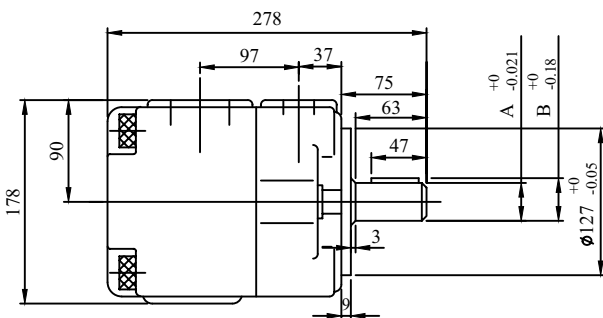
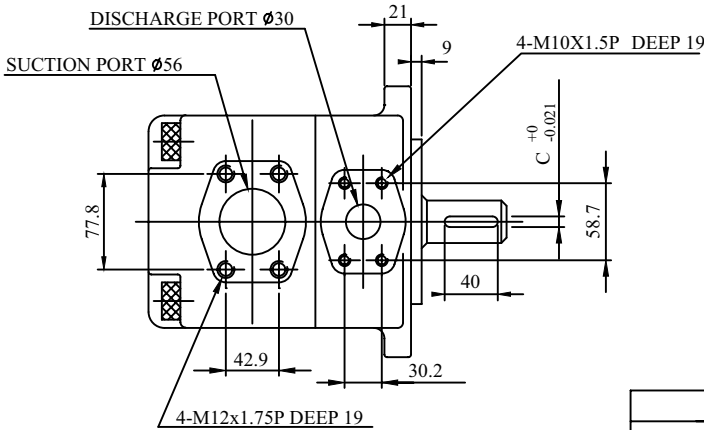


NO.03-Shaft
12/24 d.p.-14
teeth 30° pressure
angle Flat root
side fit.

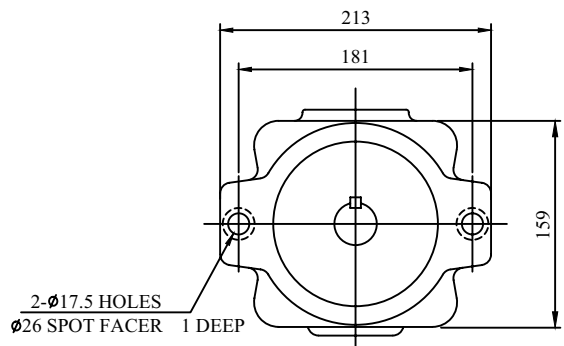
	A	B	C
NO.01-Shaft	Ø31.75	35.32	7.95
NO.02-Shaft	Ø34.9	38.56	7.95
NO.03-Shaft	Spline shaft		



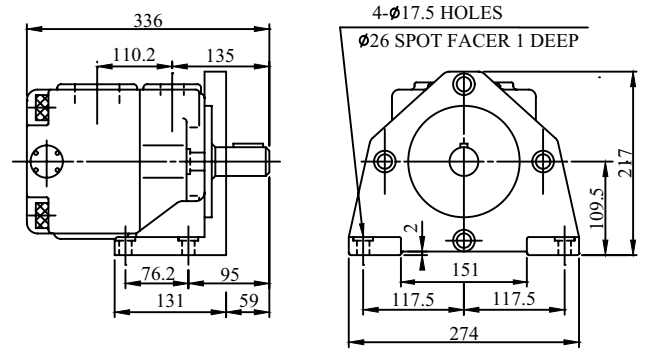
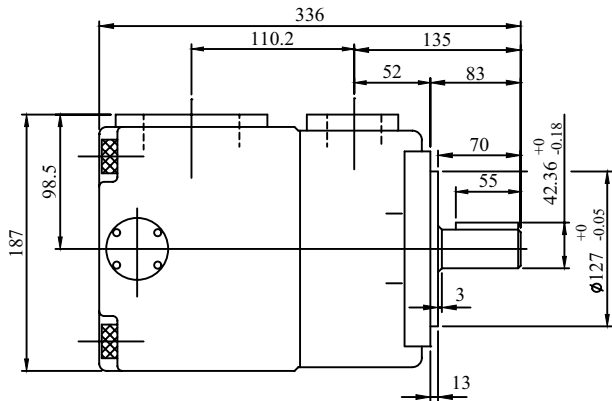
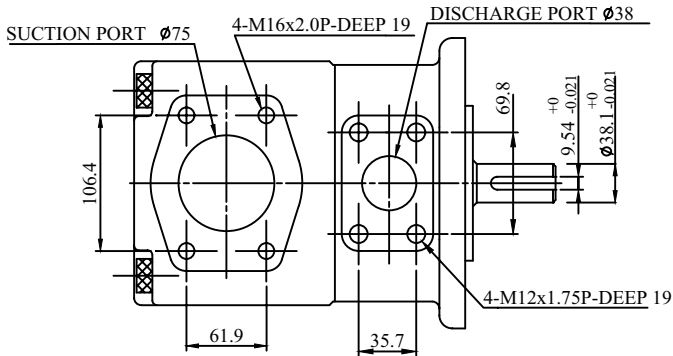
SVQ35 Max. Pressure: 210 Kg/cm² (Peak)
Max. Speed: 1800 rpm



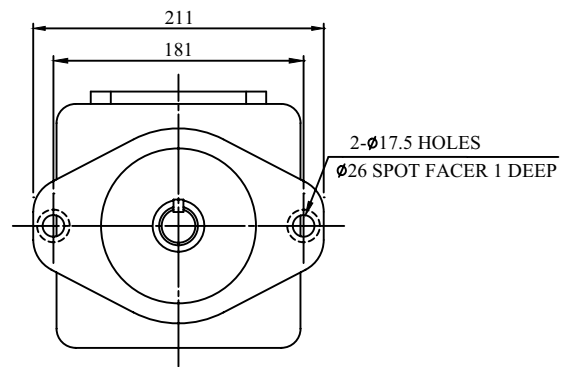
	A	B	C
NO.01-Shaft	Ø31.75	35.32	7.95
NO.02-Shaft	Ø34.9	38.56	7.95



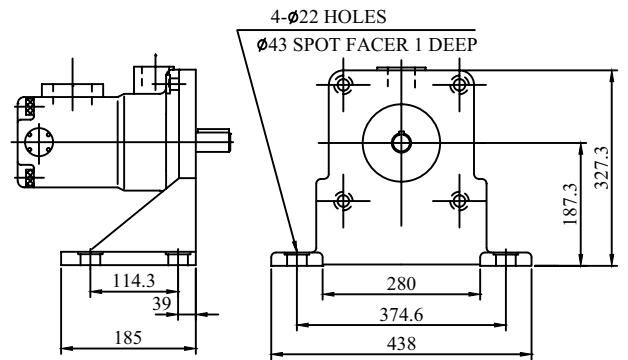
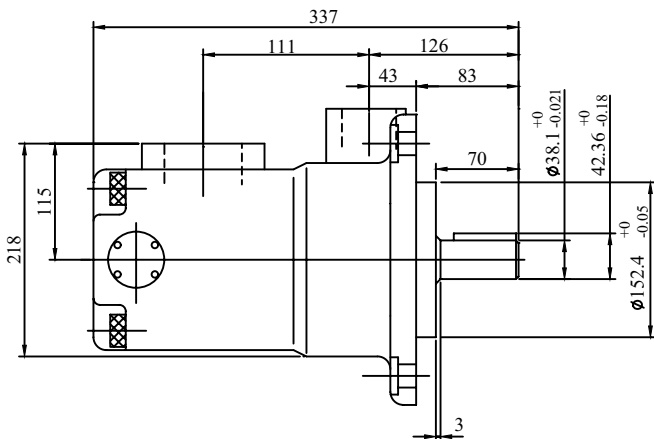
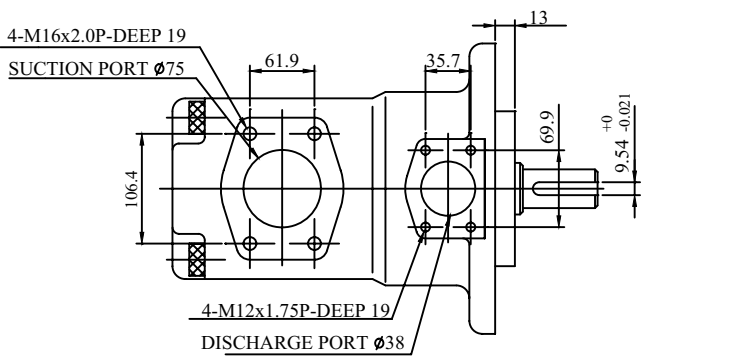
VQ45 Max. Pressure: 175 Kg/cm² (Peak)
Max. Speed: 1800 rpm



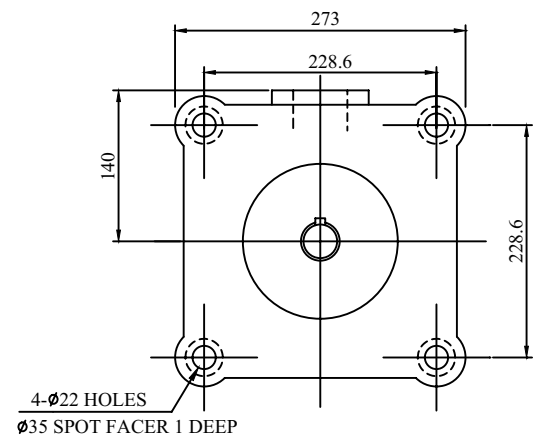
Foot Type (腳座型)



DVQ45 Max. Pressure: 175 Kg/cm² (Peak)
Max. Speed: 1800 rpm



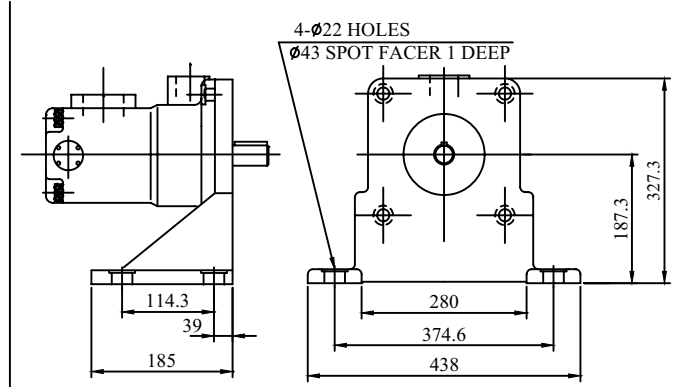
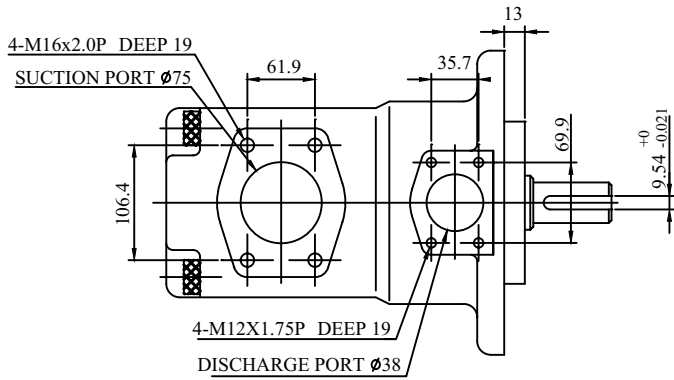
Foot Type (腳座型)



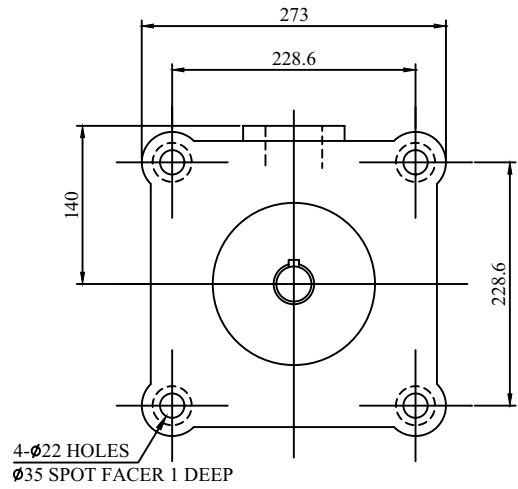
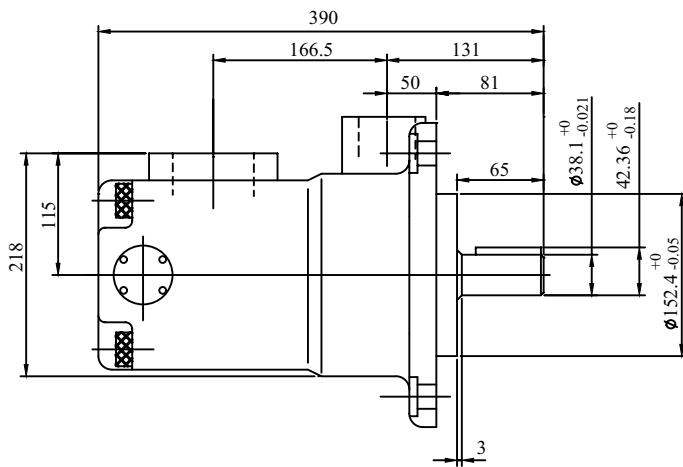
SVQ45

Max. Pressure: 175 Kg/cm² (Peak)

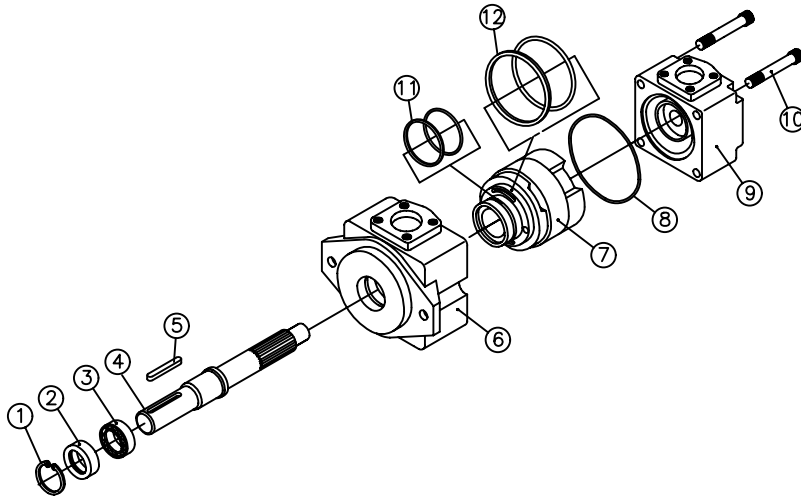
Max. Speed: 1800 rpm



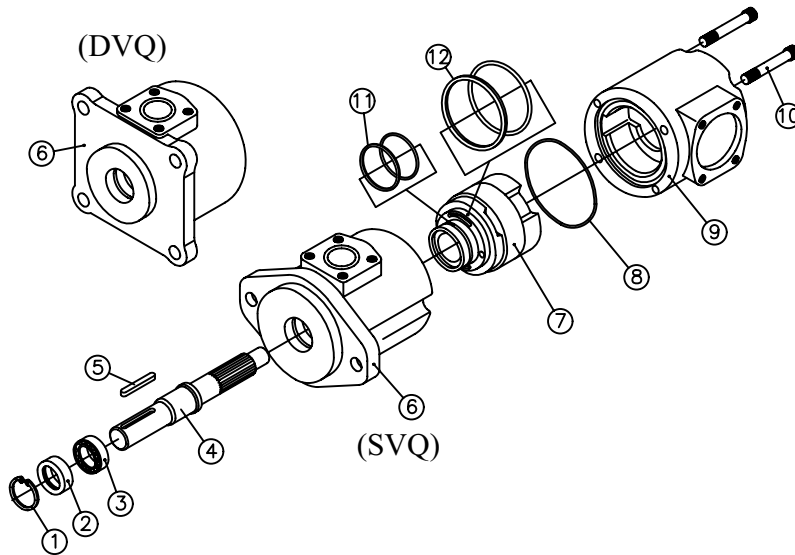
Foot Type (腳座型)



VQ15
VQ20
VQ25
VQ35
VQ45



SVQ25
SVQ35
SVQ45
(DVQ45)

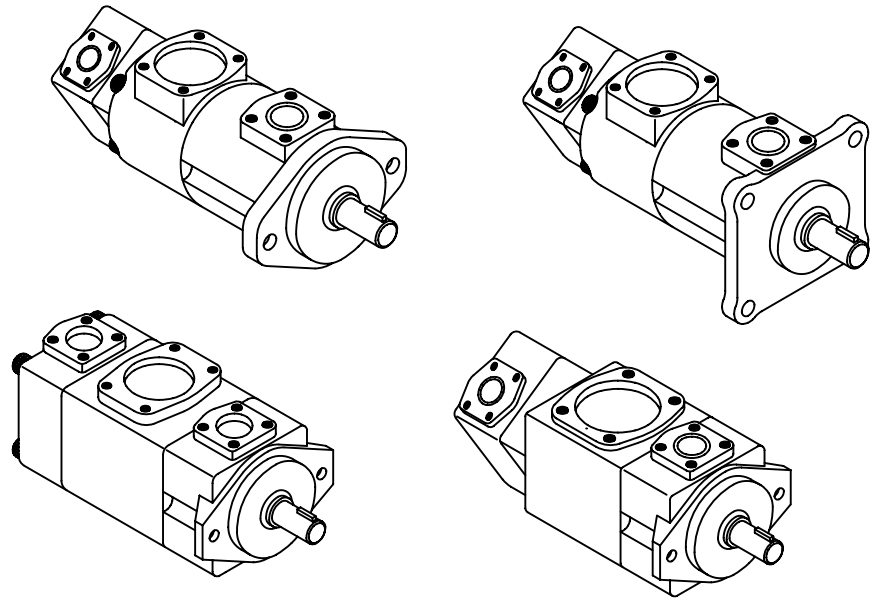


VQ Single Pump Parts List

VQ 系列單泵零件表

- | | |
|-------------------------|--|
| NO.1 Retainer Ring (扣環) | NO.11 O-ring & Endless (前壓力板-O型環(小))
Back-Up Ring (前壓力板-背托環(小)) |
| NO.2 Seal (油封) | NO.12 O-ring & Endless (前壓力板-O型環(大))
Back-Up Ring (前壓力板-背托環(大)) |
| NO.3 Bearing (軸承) | |
| NO.4 Shaft (心軸) | |
| NO.5 Key (鍵) | |
| NO.6 Housing (本體) | |
| NO.7 Cartridge Kit (內臟) | |
| NO.8 O-Ring (O型環) | |
| NO.9 Cover (上蓋) | |
| NO.10 Cap-Screw (上蓋螺絲) | |

VQ215 SVQ215
VQ225 SVQ315
VQ325 DVQ425
VQ425 SVQ425
VQ435 SVQ435
DVQ435



ORDERING CODE

雙泵訂購指引

EX : (VQ215-26-17-F-RALD-02)

EX : (SVQ315-94-17-F-RAAA-02)

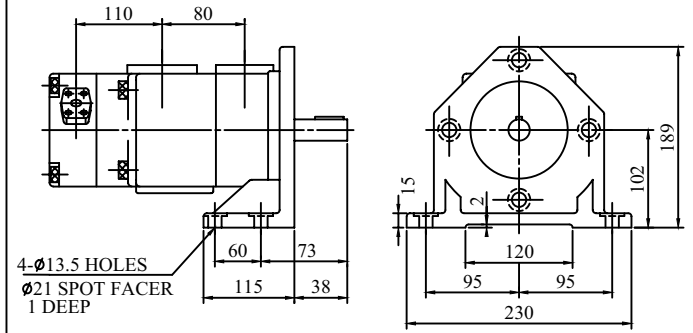
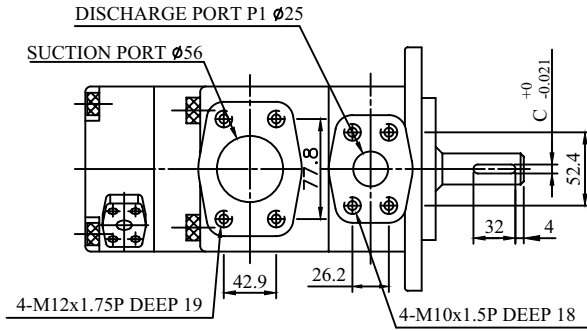
Series Number 型式	P1:Discharge Port c.c/rev Shaft End P1-出油口 (近心軸端)	P2:Discharge Port c.c/rev Cover End P2-出油口 (近上蓋端)	Mounting Type 安裝方式	Shaft Rotation (view from Shaft End) 心軸轉向 (由心軸方向看)	Discharge Port Position (P1) Shaft End Pump (view from Shaft End) P1 出口位置方向 (由心軸方向看)	Suction Port Position (view from Shaft End) S進口位置方向 (由心軸方向看)	Discharge Port Position (P2) Cover End Pump (view from Shaft End) P2 出口位置方向 (由心軸方向看)	Shaft Type 心軸種類
VQ225	18,22,26,32 38,43,47,52 60,65,75	18,22,26,32 38,43,47,52 60,65,75	F: Flange Type 法蘭型	R: Clockwise 順時針	A:Upward (normal) 向上	A:Upward (normal) 向上	A:Upward 向上 (normal) B:Downward 向下 R:Right Hand 右向 L:Left Hand 左向	-01 -02 -03
SVQ315	60,66,76 82,88,94 108,116,125	6,8,11,14 17,19,23 26,31,38						
VQ215 SVQ215	18,22,26,32 38,43,47,52 60,65,75	6,8,11,14 17,19,23 26,31,38	L: Foot Type 腳座型	L: Anti-Clockwise 反時針	B:Downward 向下 R:Right Hand 右向 L:Left Hand 左向	B:Downward 向下 R:Right Hand 右向 L:Left Hand 左向	A:On Right Hand Upward 45° (normal) 右上45° B:On Right Hand Downward 45° 右下45° C:On Left Hand Downward 45° 左下45° D:On Left Hand Upward 45° 左上45°	
VQ325	60,66,76 82,88,94 108,116,125	18,22,26,32 38,43,47,52 60,65,75						
VQ425 SVQ425 DVQ425	136,156 189,200 216,237	18,22,26,32 38,43,47,52 60,65,75						
VQ435 SVQ435 DVQ435	136,156 189,200 216,237	60,66,76,82 88,94,108 116,125						

DOUBLE PUMP WEIGHT LIST(Kg)

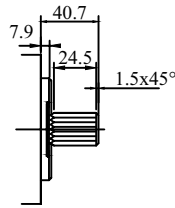
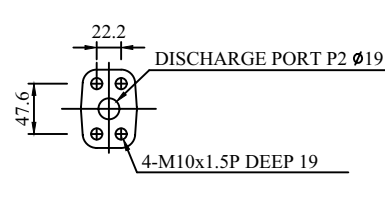
雙泵重量表 (Kg)

	VQ215	VQ225	SVQ215	SVQ315	VQ325	VQ425	DVQ425	SVQ425	VQ435	DVQ435	SVQ435
Flange Type	24	30.6	32	44.4	50	63	73	80	76	84	91
Foot Type	29	35.5	40	52	58	71	104	111	93	115	122
Outlet & Inlet Flange	2.5	3.2	3.2	3.5	3.5	4.8	4.8	4.8	5.2	5.2	5.2

VQ215

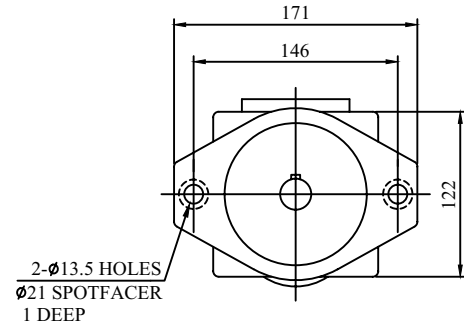
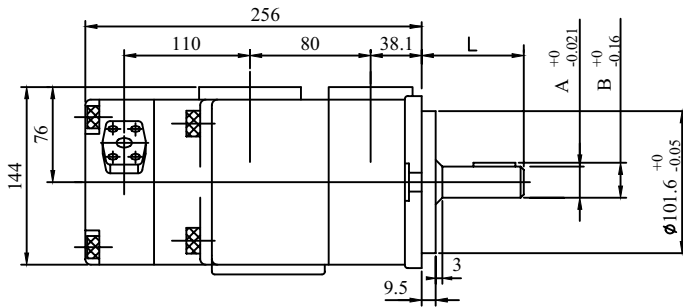


Foot Type (腳座型)

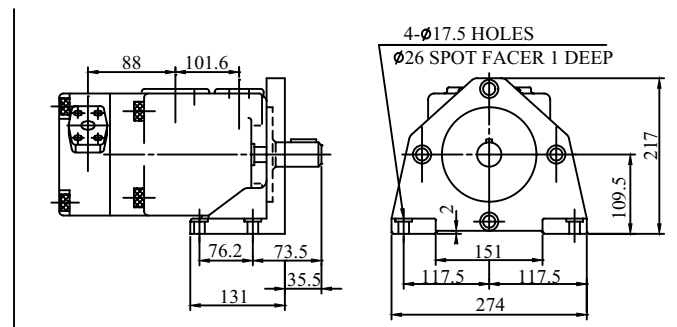
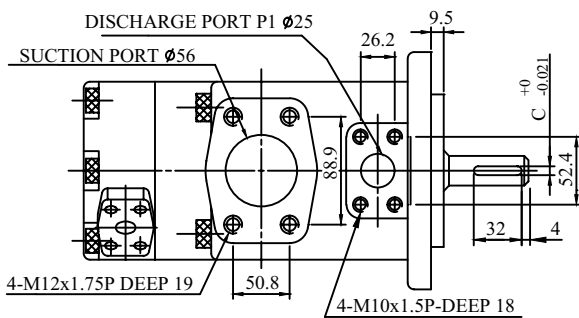


NO.04-Shaft
16/32 d.p. -13 teeth
30° pressure angle
Flat root side fit.

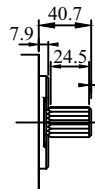
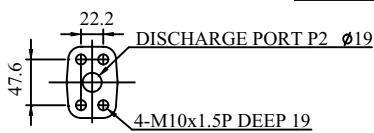
	A	B	C	L
NO.01-Shaft	$\phi 22.23$	24.5	6.35	61
NO.02-Shaft	$\phi 25.4$	28.18	6.35	61
NO.03-Shaft	$\phi 30$	33	7	68
NO.04-Shaft	Spline shaft 7/8" -13T			



SVQ215

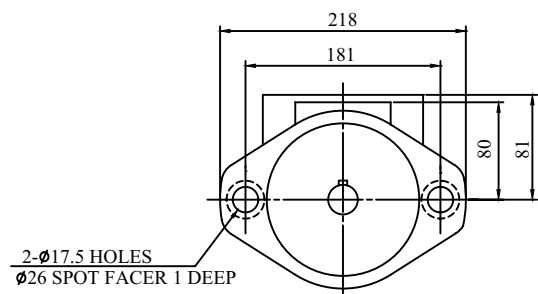
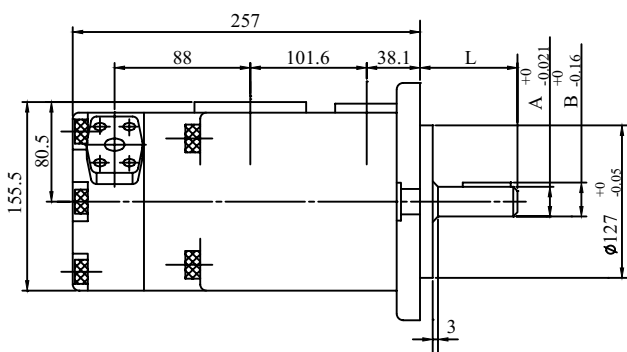


Foot Type (腳座型)

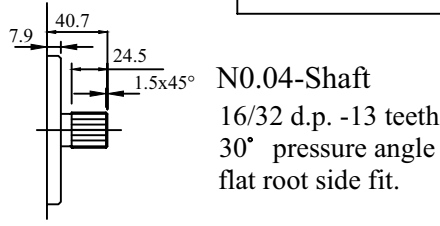
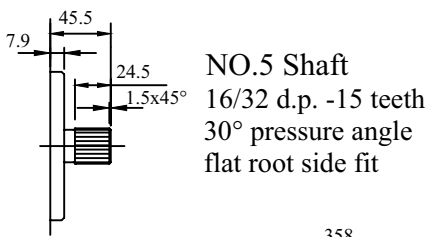
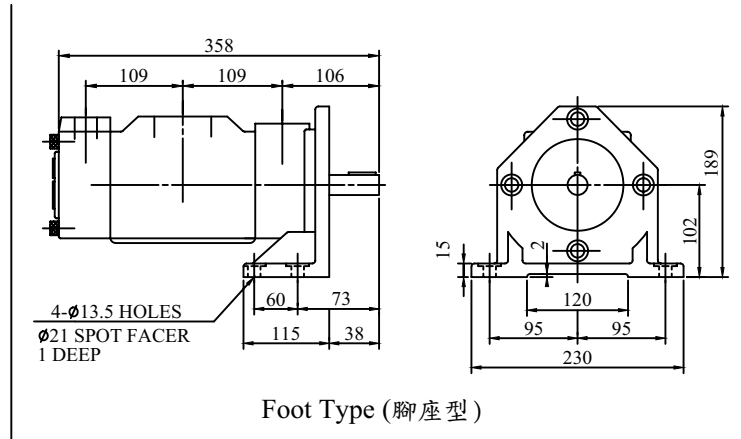
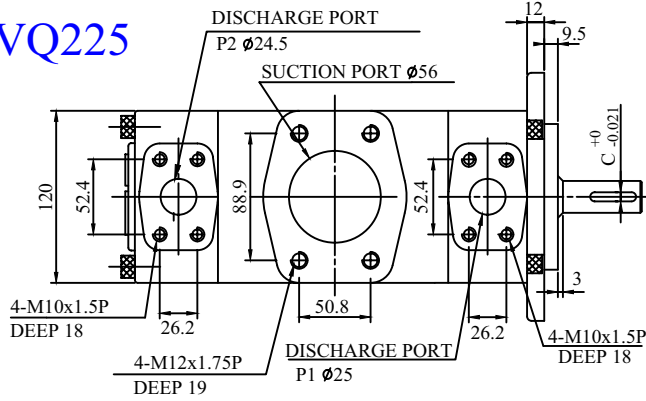


NO.04-Shaft
16/32 d.p. 13teeth
30° pressure angle
Flat root side fit.

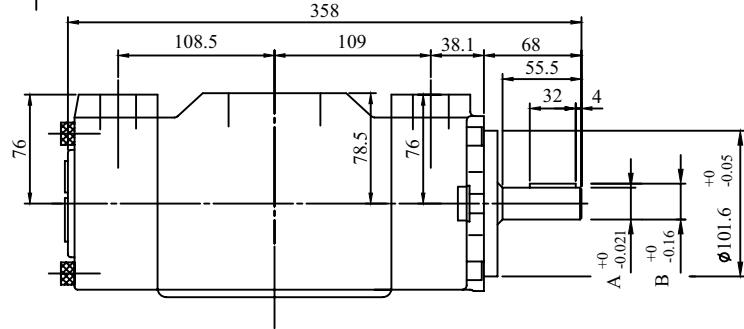
	A	B	C	L
NO.01-Shaft	$\phi 22.23$	24.5	6.35	61
NO.02-Shaft	$\phi 25.4$	28.18	6.35	61
NO.03-Shaft	$\phi 30$	33	7	68
NO.04-Shaft	Spline shaft 7/8" -13T			



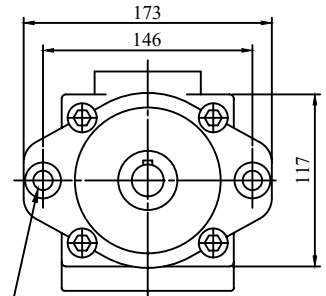
VQ225



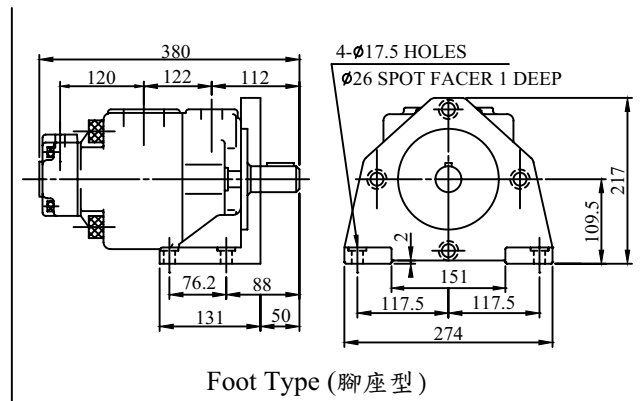
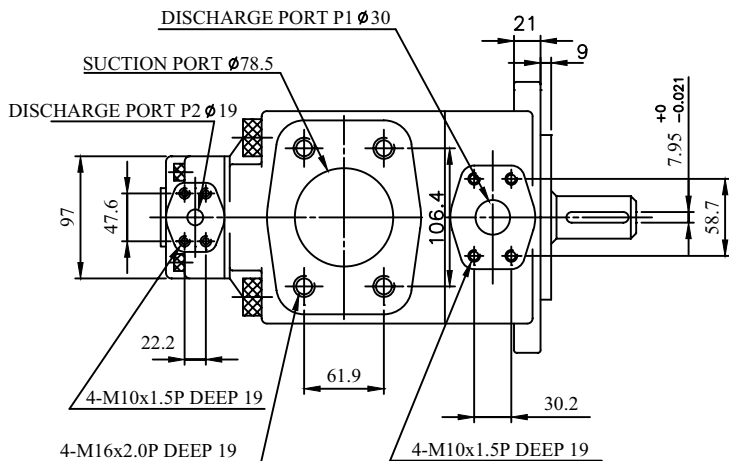
	A	B	C
NO.01-Shaft	$\phi 22.23$	24.5	6.35
NO.02-Shaft	$\phi 25.4$	28.18	6.35
NO.03-Shaft	$\phi 30$	33	7
NO.04-Shaft	Spline shaft 7/8" -13T		
NO.05-Shaft	Spline shaft 1" -15T		



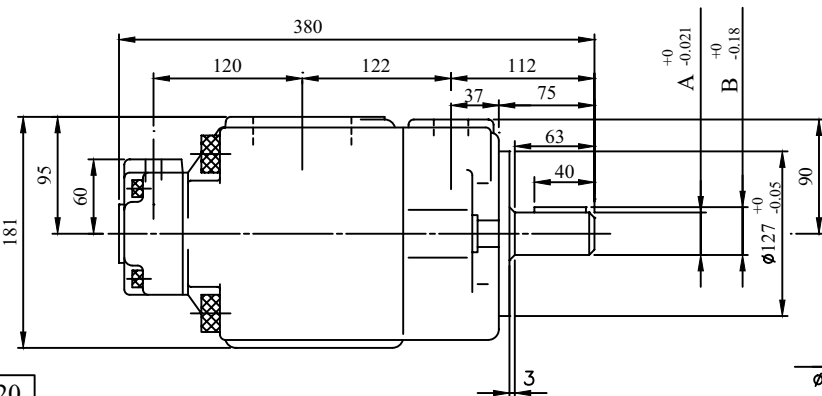
2- $\phi 13.5$ HOLES
 $\phi 25$ SPOT FACE 1 DEEP



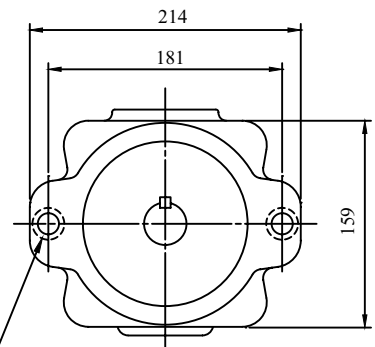
SVQ315



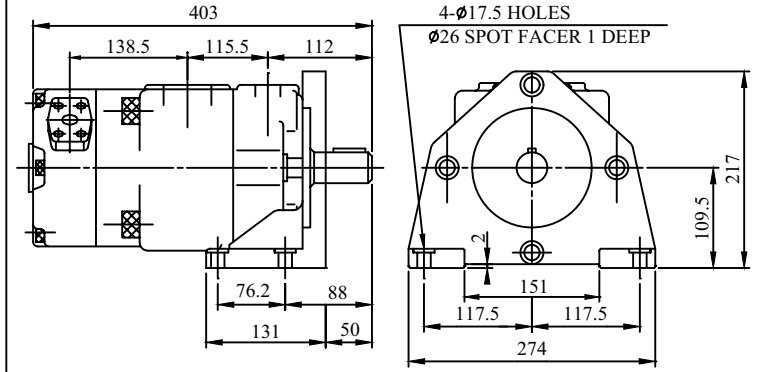
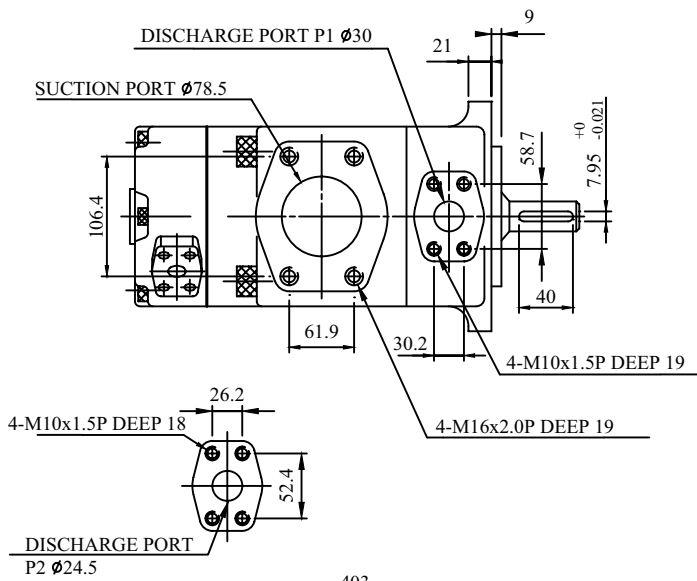
	A	B
NO.01-Shaft	$\phi 31.75$	35.32
NO.02-Shaft	$\phi 34.9$	38.56



2- $\phi 17.5$ HOLES
 $\phi 26$ SPOT FACE 1 DEEP

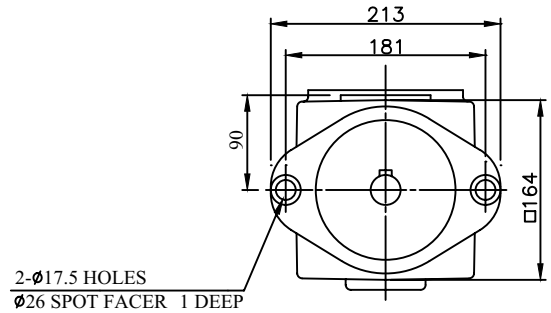
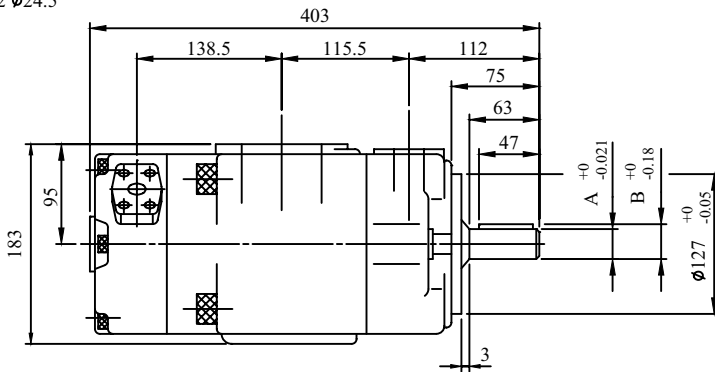


VQ325

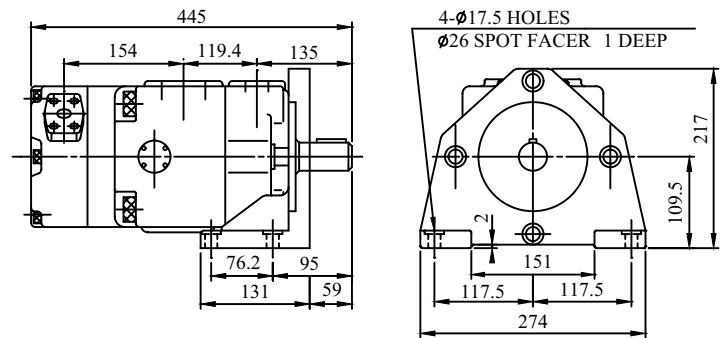
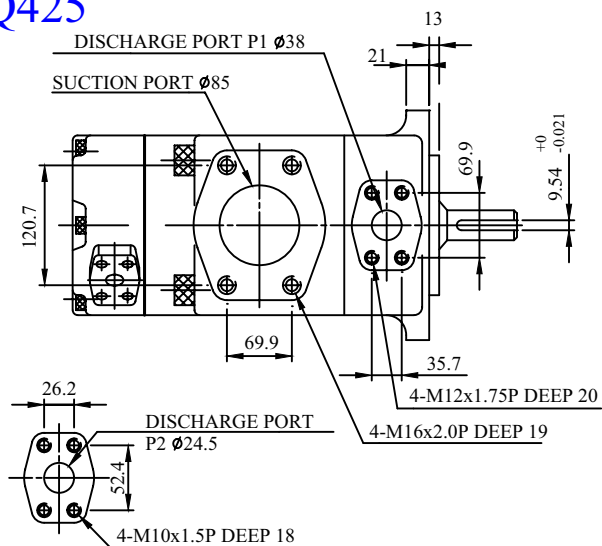


Foot Type (腳座型)

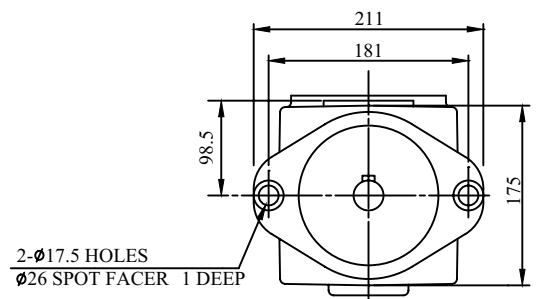
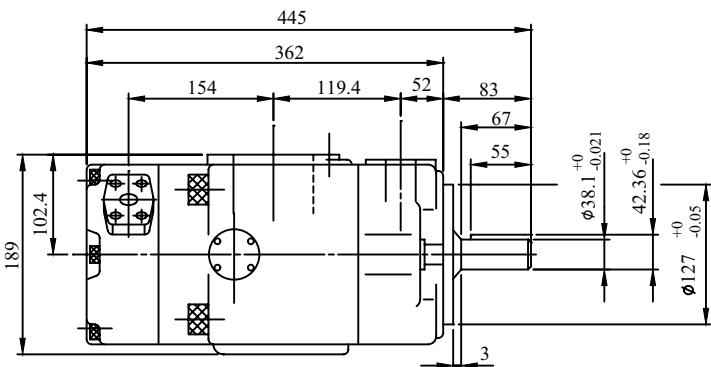
	A	B
NO.01-Shaft	$\phi 31.75$	35.32
NO.02-Shaft	$\phi 34.9$	38.56



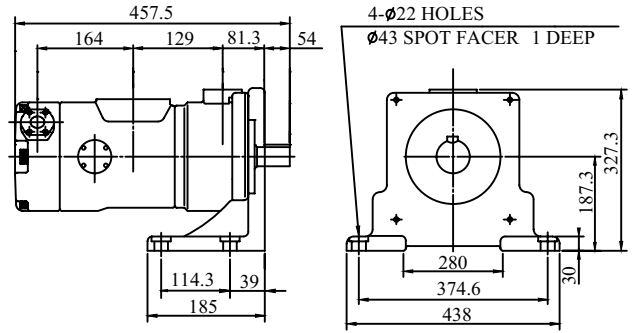
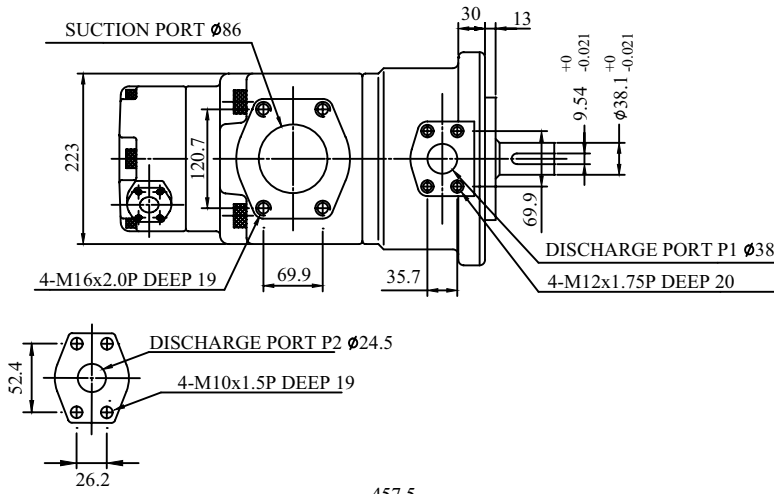
VQ425



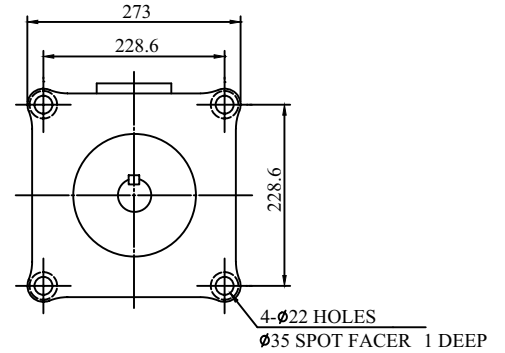
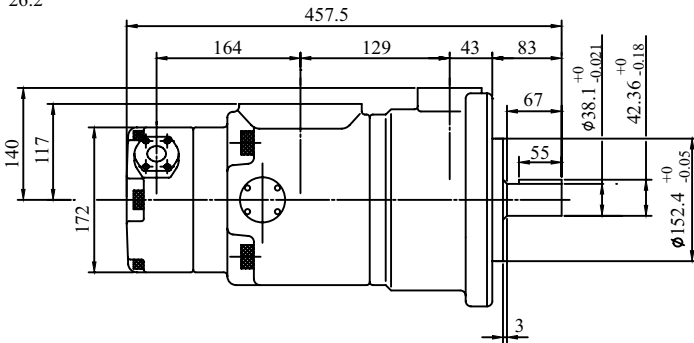
Foot Type (腳座型)



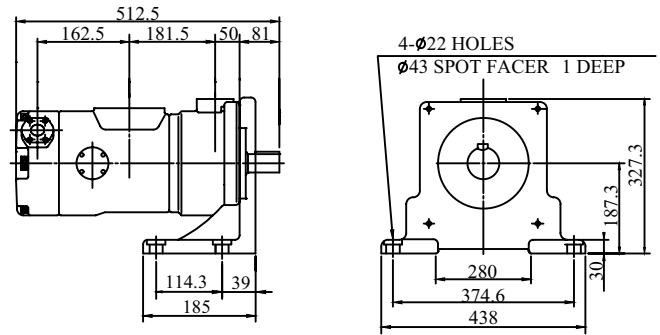
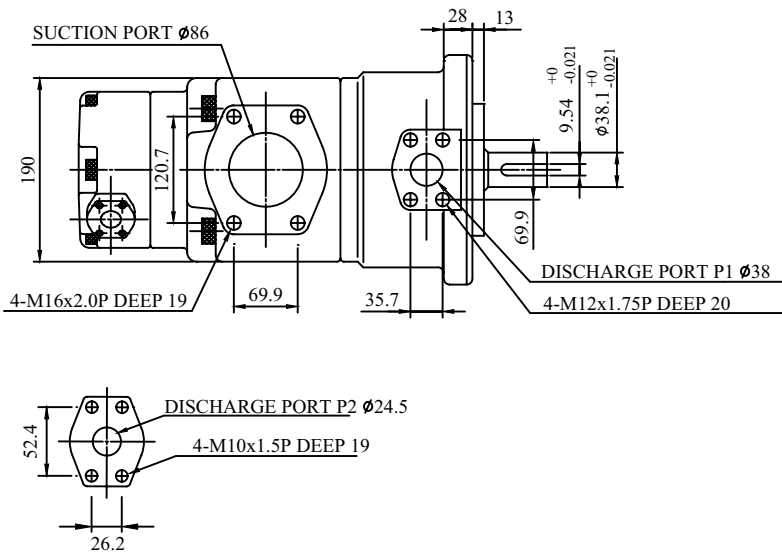
DVQ425



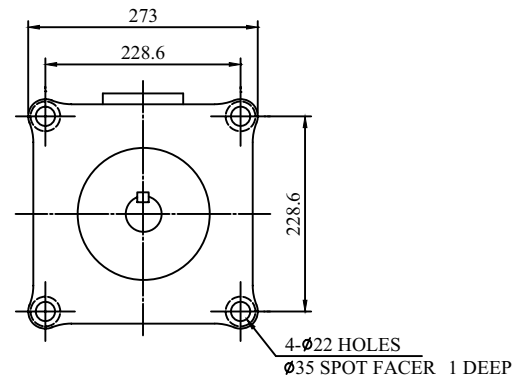
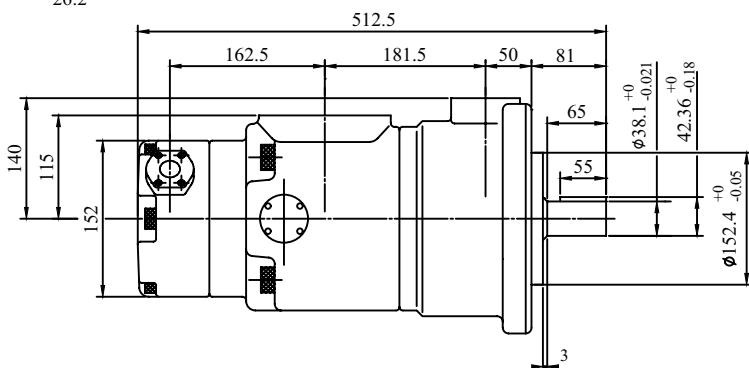
Foot Type (腳座型)



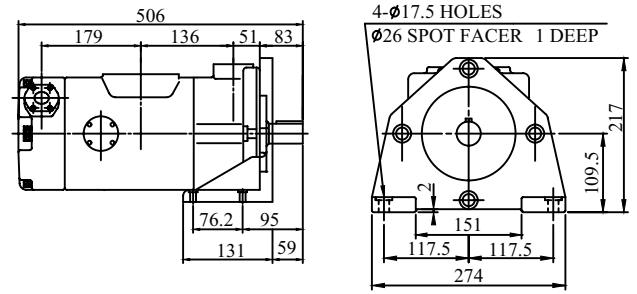
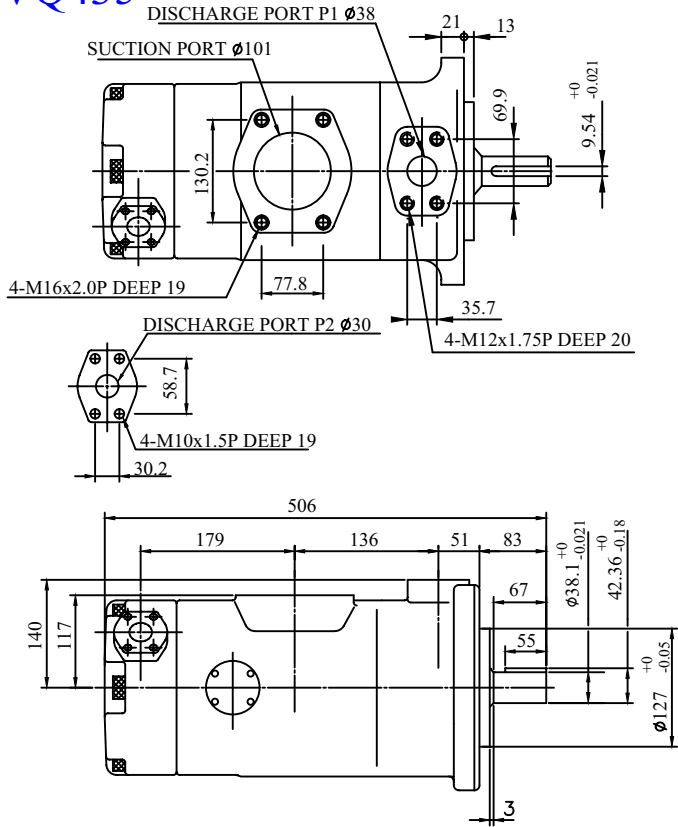
SVQ425



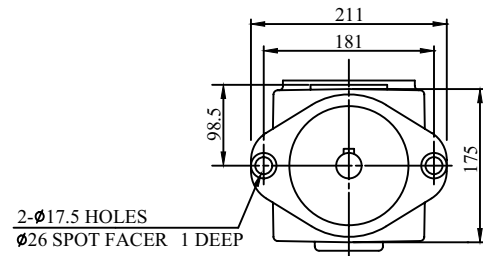
Foot Type (腳座型)



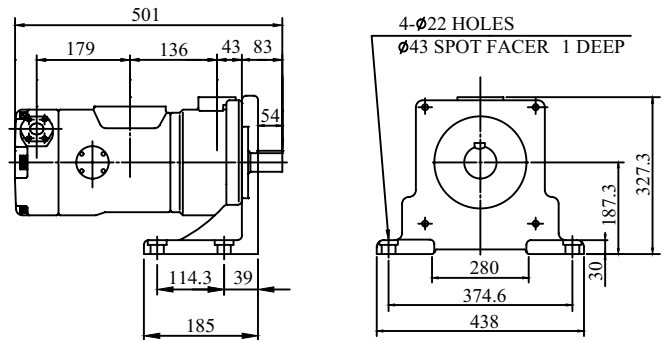
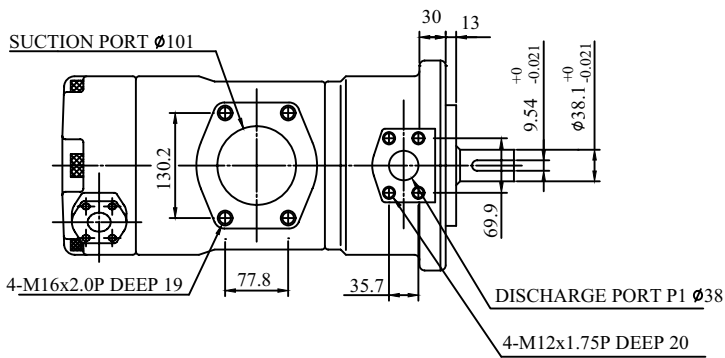
VQ435



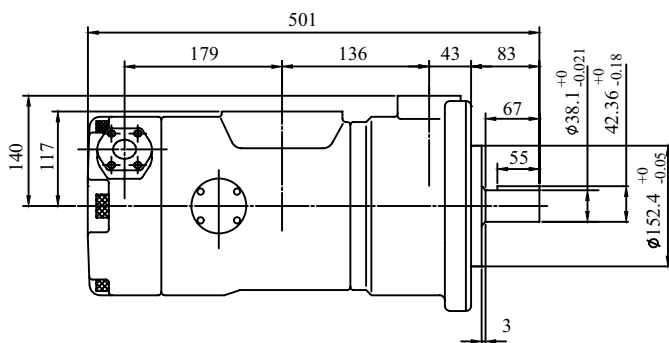
Foot Type (腳座型)



DVQ435

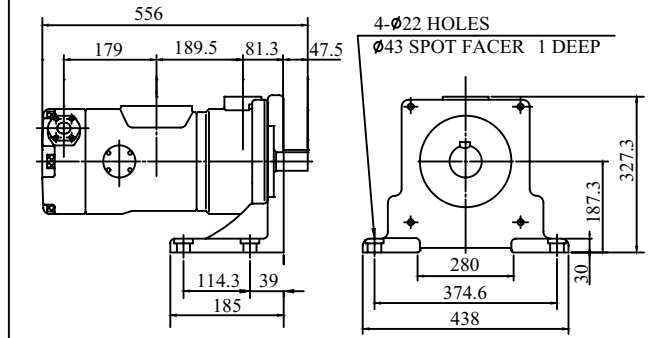
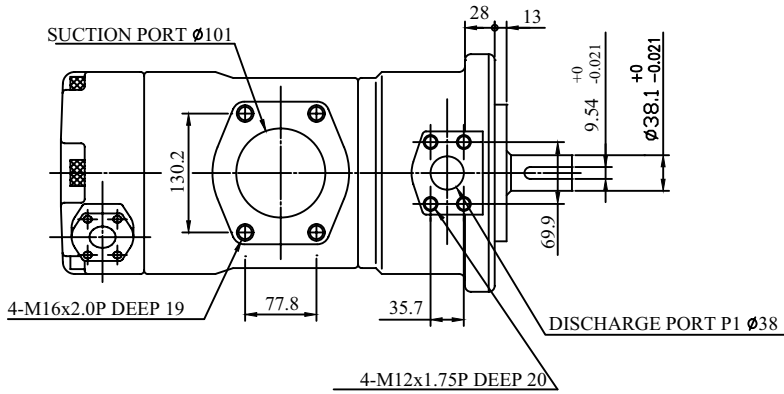


Foot Type (腳座型)

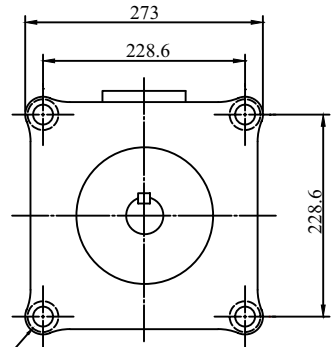
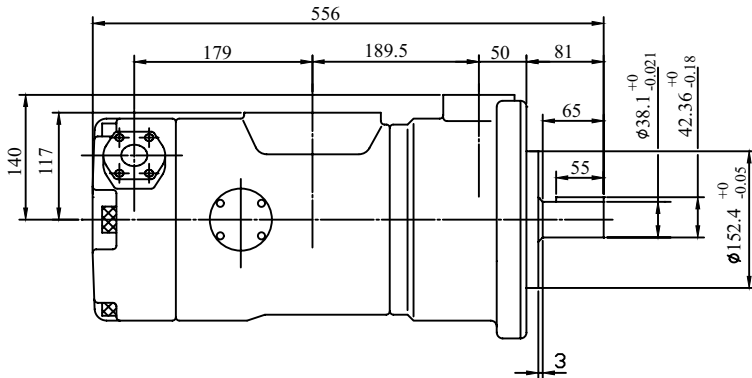
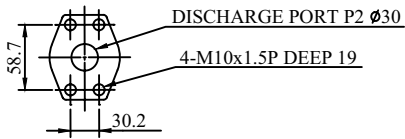


4- $\phi 22$ HOLES
 $\phi 35$ SPOT FACER 1 DEEP

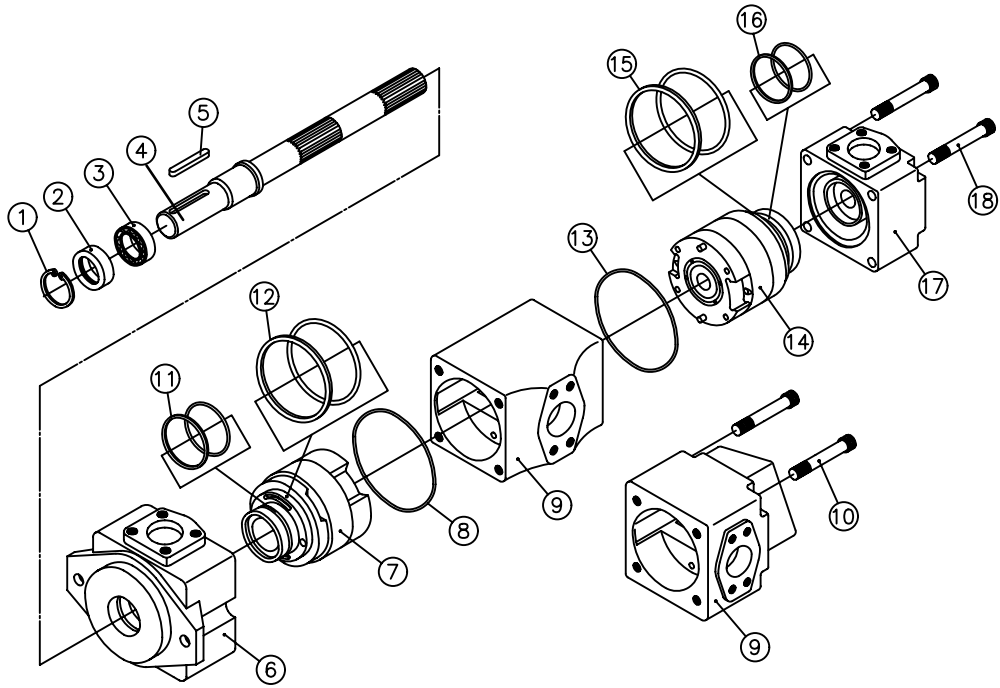
SVQ435



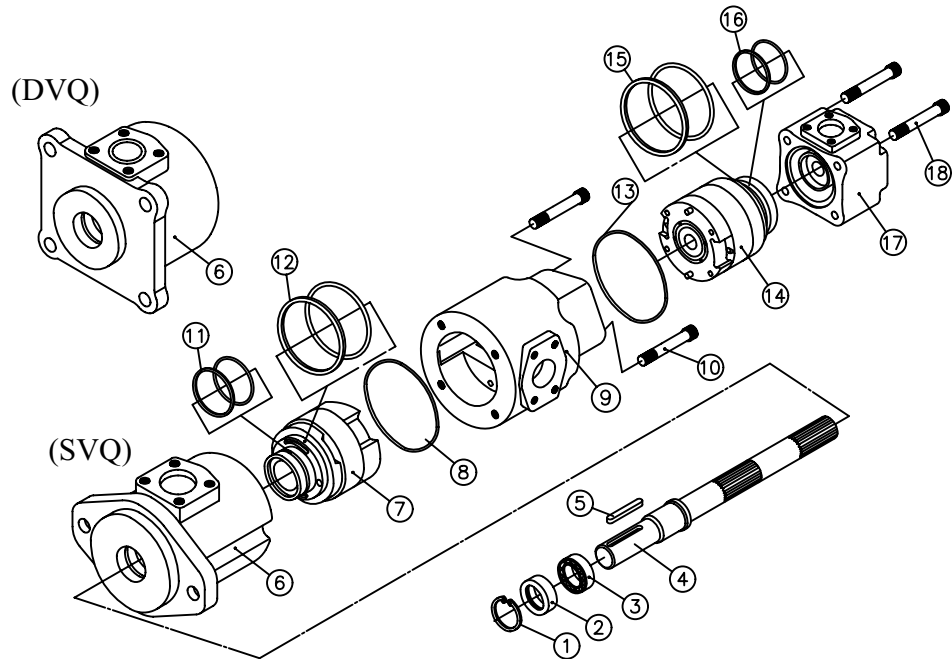
Foot Type (腳座型)



VQ215
VQ225
VQ325
VQ425
VQ435



SVQ215
SVQ315
SVQ425
SVQ435
DVQ425
DVQ435

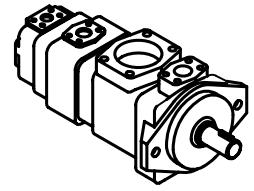


VQ SERIES DOUBLE PUMP PARTS LIST

VQ 系列雙泵零件表

- | | |
|----------------------------|--|
| NO.1 Retainer Ring (扣環) | NO.11 O-ring & Endless (P1-前壓力板-0型環(小))
Back-Up Ring (P1-前壓力板-背托環(小)) |
| NO.2 Seal (油封) | NO.12 O-ring & Endless (P1-前壓力板-0型環(大))
Back-Up Ring (P1-前壓力板-背托環(大)) |
| NO.3 Bearing (軸承) | NO.13 O-Ring (上蓋-0型環) |
| NO.4 Shaft (心軸) | NO.14 Cartridge Kit (P2-內臟) |
| NO.5 Key (鍵) | NO.15 O-ring & Endless (P2-前壓力板-0型環(小))
Back-Up Ring (P2-前壓力板-背托環(小)) |
| NO.6 Housing (本體) | NO.16 O-ring & Endless (P2-前壓力板-0型環(大))
Back-Up Ring (P2-前壓力板-背托環(大)) |
| NO.7 Cartridge Kit (P1-內臟) | NO.17 End cover (上蓋) |
| NO.8 O-Ring (本體O型環) | NO.18 Screw (上蓋螺絲) |
| NO.9 Housing (中體) | |
| NO.10 Screw (中體螺絲) | |

DVQ2215



DVQ2215 - 65 - 38 - 17 - F - R - A A A A - 01 - 02

① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨ ⑩ ⑪ ⑫

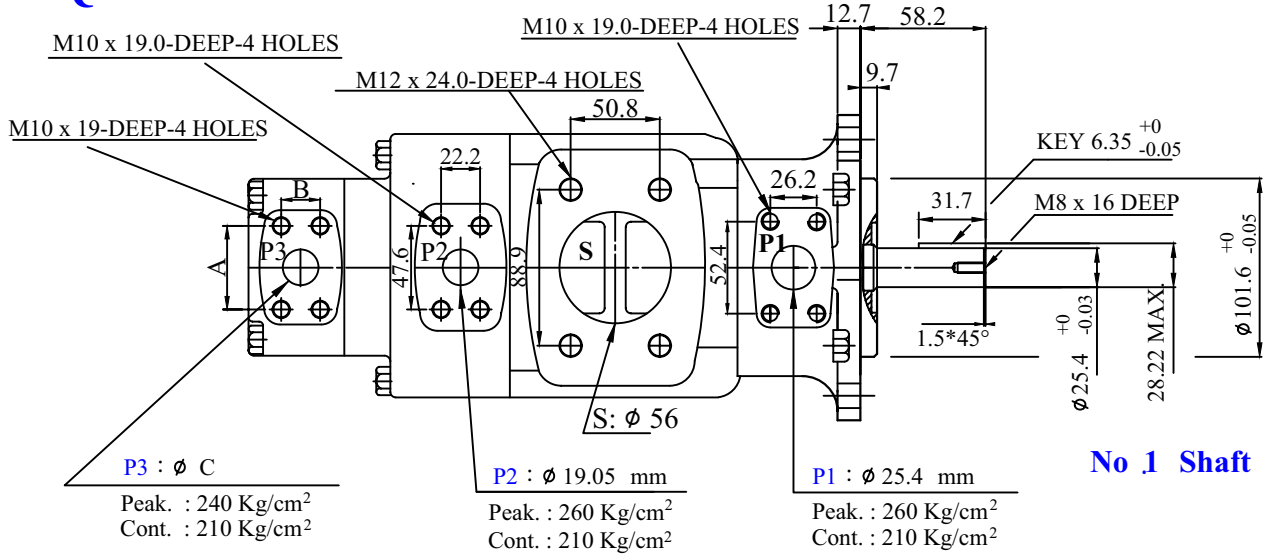
- ① Series Number
型號
- ② P1:Discharge Port
Shaft End c.c /rev
出油口 從心軸方向看
- ③ P2:Discharge Port
Shaft End c.c /rev
出油口
- ④ P3:Discharge Port
Shaft End c.c /rev
出油口 從封蓋方向看
- ⑤ Mounting Type
安裝方式
F:Flange Type 法蘭型
L:Foot Type 腳座型
- ⑥ Shaft Rotation
(view from Shaft End)
轉向 從心軸方向看
R:Clockwise 順時針
L:Anti-Clockwise 反時針
- ⑦ Discharge Port Position
(P1) Shaft End Pump
(view from Shaft End)
出油口 從心軸方向看
- ⑧ Suction Port Position
(view from Shaft End)
進油口 從心軸方向看
- ⑨ Discharge Port Position
(P2) Shaft End Pump
(view from Shaft End)
出油口 從心軸方向看
- ⑩ Discharge Port Position
(P3) Shaft End Pump
(view from Shaft End)
出油口 從心軸方向看
- ⑪ Shaft Type 01
心軸種類
- ⑫ Port connection variables 02
出油口種類

出入油口方向：	
A:	Upward (normal) 向上
B:	Downward 向下
R:	Right Hand 右邊
L:	Left Hand 左邊

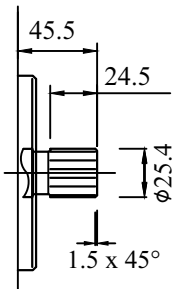
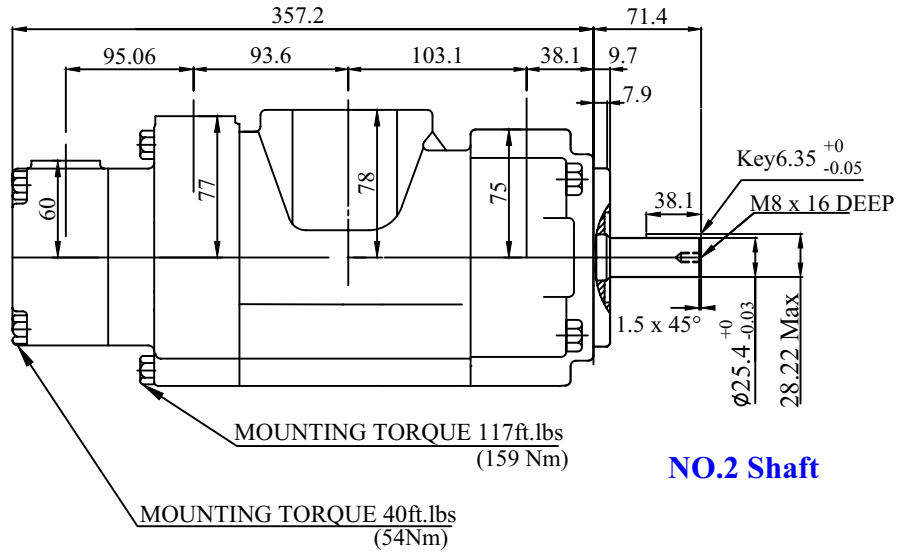
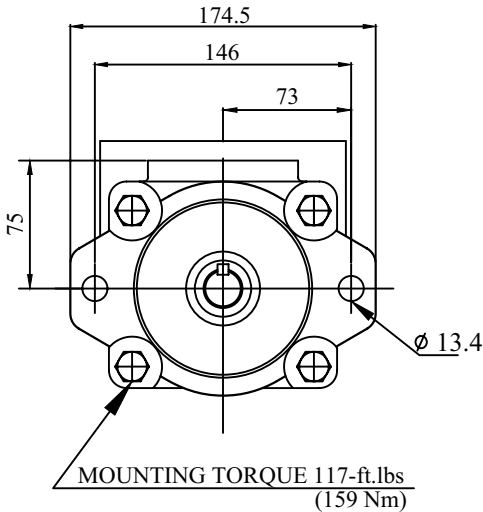
P3	型式	A	B	C
	01	38.1	17.5	φ15
	02	47.6	22.2	φ19.05

Model 型號		Deliver Flow (ℓ /min) at no-load pressure 無負壓的傳輸流量				Running Speed (rpm) 轉速		Max Pressure (Kg/cm ²) 最高壓力	
		Running Speed (rpm) 轉速				Max 最大	Min 最小	Cont. Peak.	
		1000	1200	1500	1800				
(P3)	06	6.2	7.4	9.3	11.2	1800	800	210	240
	08	8.1	9.7	12.1	14.6	1800	800	210	240
	11	11.2	13.4	13.4	20.1	1800	800	210	240
	14	14.3	17.1	21.5	25.7	1800	800	210	240
	17	17.1	20.5	25.6	30.7	1800	800	210	240
	19	19.2	23.0	28.8	34.5	1800	800	210	240
	23	23.3	27.9	34.9	41.9	1800	800	210	240
	26	26.1	31.3	39.1	46.9	1800	800	210	240
	31	31.1	37.3	46.6	—	1500	800	175	240
(P2)	06	6.2	7.4	9.3	11.2	1800	800	210	260
	08	8.1	9.7	12.1	14.6	1800	800	210	260
	11	11.2	13.4	13.4	20.1	1800	800	210	260
	14	14.3	17.1	21.5	25.7	1800	800	210	260
	17	17.1	20.5	25.6	30.7	1800	800	210	260
	19	19.2	23.0	28.8	34.5	1800	800	210	260
	23	23.3	27.9	34.9	41.9	1800	800	210	260
	26	26.1	31.3	39.1	46.9	1800	800	210	260
	32	32.1	38.3	47.6	—	1500	800	175	240
	34	34.1	40.8	50.4	—	1500	800	175	240
	38	38.1	45.9	—	1200	800	175	240	
	44	44.1	52.9	—	1200	800	175	210	
(P1)	18	18.1	21.7	27.2	32.6	1800	800	210	260
	22	22.1	26.5	33.3	39.8	1800	800	210	260
	26	26.2	31.4	39.3	47.1	1800	800	210	260
	32	32.1	38.5	48.1	57.7	1800	800	210	260
	38	38.2	45.8	57.3	68.7	1800	800	210	260
	43	43.2	51.8	64.8	77.7	1800	800	210	260
	47	47.1	56.5	70.0	85.0	1800	800	210	260
	52	52.3	62.7	78.4	94.1	1800	800	210	260
	60	60.2	72.7	90.3	108.3	1800	800	210	260
	65	65.3	78.3	97.9	117.5	1800	800	210	230
	75	75.0	90.0	112.5	—	1500	800	210	230

DVQ2215

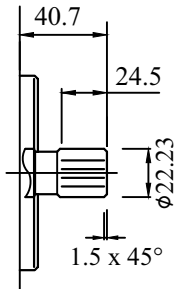


P3	型式	A	B	C
	01	38.1	17.5	ϕ 15
02	47.6	22.2	ϕ 19.05	



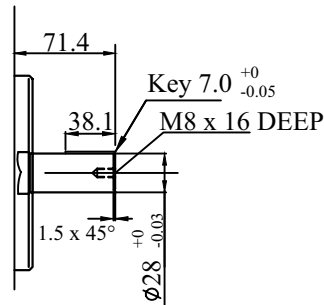
NO.3 Shaft

SAE BB
 Splined shaft
 Class 1-J498 b 16/32d.p.
 -15 teeth 30° pressure
 angle flat root side fit

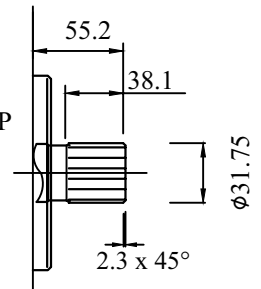


NO.5 Shaft

SAE B splined shaft
 Class 1-J498 b 16/32d.p.
 -13 teeth 30° pressure
 angle flat root side fit



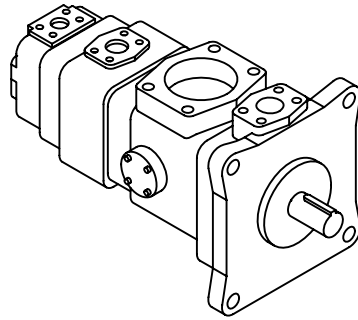
NO.6 Shaft



NO.7 Shaft

splined shaft Class
 1-J498 b 12/24 d.p.
 -14 teeth 30° pressure
 angle flat root side fit

DVQ4325



Weight 重量:

Flange Type 法蘭型: 92 Kg

Foot Type 腳座型: 123 Kg

DVQ4325 - 237 - 116 - 52 - F - R - A A A A - 01

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⑥

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⑧

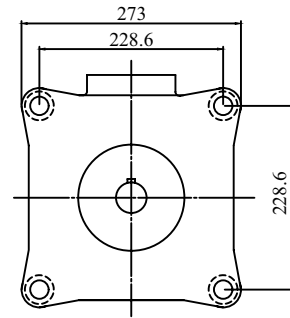
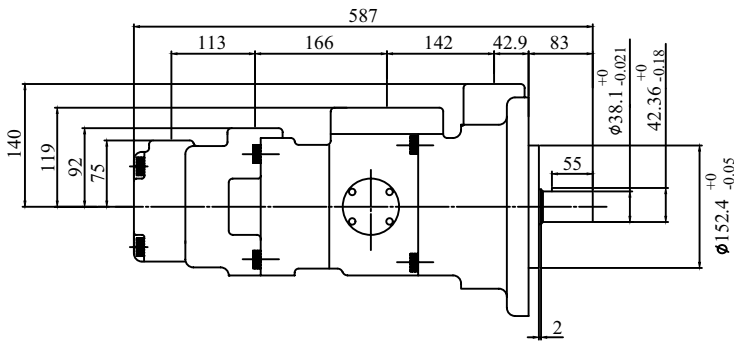
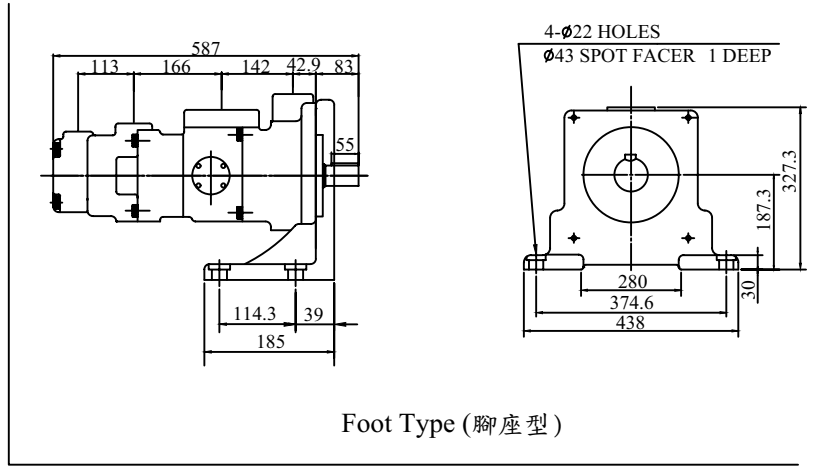
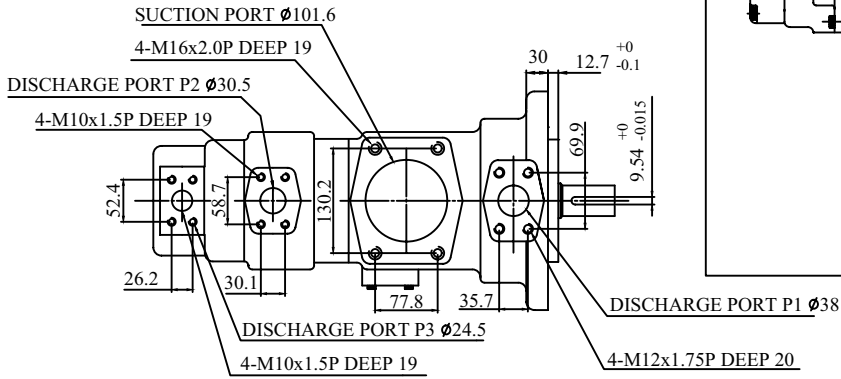
⑨

⑩

⑪

①	Series Number----- 型號	DVQ 4325
②	P1:Discharge Port ----- Shaft End c.c /rev 出油口 從心軸方向看	136,156,189 200,216,237
③	P2:Discharge Port ----- Shaft End c.c /rev 出油口	60,66,76,82,88 94,108,116,125
④	P3:Discharge Port ----- Shaft End c.c /rev 出油口 從封蓋方向看	18,22,26,32,38,43 47,52,60,65,75
⑤	Mounting Type ----- 安裝方式	F:Flange Type 法蘭型 L:Foot Type 腳座型
⑥	Shaft Rotation ----- (view from Shaft End) 轉向 從心軸方向看	R:Clockwise 順時針 L:Anti-Clockwise 反時針
⑦	Discharge Port Position ----- (P1) Shaft End Pump (view from Shaft End) 出油口 從心軸方向看	A:Upward (normal) 向上 B:Downward 向下 R:Right Hand 右邊 L:Left Hand 左邊
⑧	Suction Port Position ----- (view from Shaft End) 進油口 從心軸方向看	A:Upward (normal) 向上 B:Downward 向下 R:Right Hand 右邊 L:Left Hand 左邊
⑨	Discharge Port Position ----- (P2) Shaft End Pump (view from Shaft End) 出油口 從心軸方向看	A:Upward (normal) 向上 B:Downward 向下 R:Right Hand 右邊 L:Left Hand 左邊
⑩	Discharge Port Position ----- (P3) Shaft End Pump (view from Shaft End) 出油口 從心軸方向看	A:Upward (normal) 向上 B:Downward 向下 R:Right Hand 右邊 L:Left Hand 左邊
⑪	Shaft Type ----- 心軸種類	01

DVQ4325



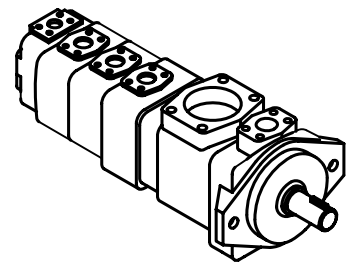
DVQ22115

DVQ22115 - 65 - 38 - 26 - 17 - F - R - A A A A A - 01 - 02
 ① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨ ⑩ ⑪ ⑫ ⑬ ⑭ ⑮

- ① Series Number
型號
- ② P1:Discharge Port
Shaft End c.c / rev
出油口 從心軸方向看
- ③ P2:Discharge Port
Shaft End c.c / rev
出油口
- ④ P3:Discharge Port
Shaft End c.c / rev
出油口 從封蓋方向看
- ⑤ P4:Discharge Port
Shaft End c.c / rev
出油口 從封蓋方向看
- ⑥ Mounting Type
安裝方式
F:Flange Type 法蘭型
L:Foot Type 腳座型
- ⑦ Shaft Rotation
(view from Shaft End)
轉向 從心軸方向看
R:Clockwise 順時針
L:Anti-Clockwise 反時針

- ⑧ Discharge Port Position
(P1) Shaft End Pump
(view from Shaft End)
出油口 從心軸方向看
- ⑨ Suction Port Position
(view from Shaft End)
(S1)進油口 從心軸方向看
- ⑩ Discharge Port Position
(P2) Shaft End Pump
(view from Shaft End)
出油口 從心軸方向看
- ⑪ Discharge Port Position
(P3) Shaft End Pump
(view from Shaft End)
出油口 從心軸方向看
- ⑫ Suction Port Position
(view from Shaft End)
(S2)進油口 從心軸方向看
- ⑬ Discharge Port Position
(P4) Shaft End Pump
(view from Shaft End)
P4出油口 從心軸方向看
- ⑭ Shaft Type 01
心軸種類
- ⑮ Port connection variables 02
(P4 出油口種類)

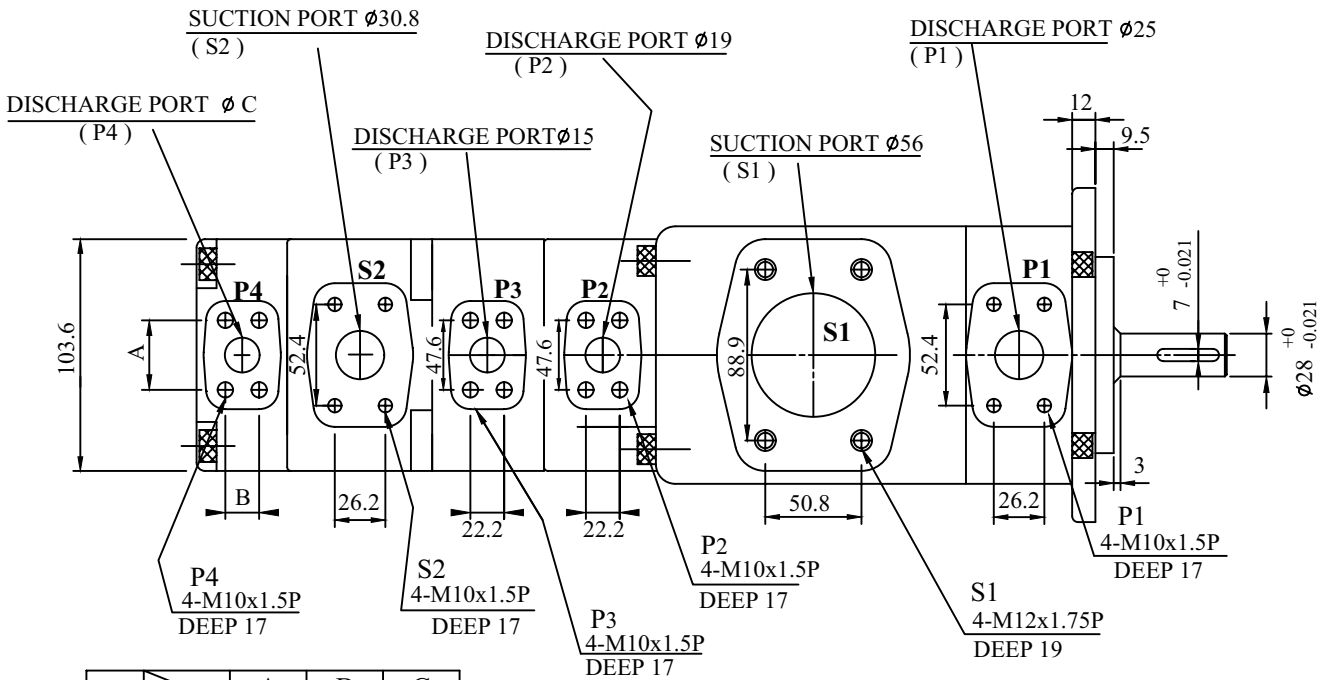
出入油口方向：	
A	Upward (normal) 向上
B	Downward 向下
R	Right Hand 右邊
L	Left Hand 左邊



P4	型式	A	B	C
	01	38.1	17.5	φ15
	02	47.6	22.2	φ19.05

Model 型號	Deliver Flow (ℓ /min) at no-load pressure 無負壓的傳輸流量					Running Speed (rpm) 轉速		Max Pressure (Kg/cm ²) 最高壓力	
	Running Speed (rpm) 轉速					Max 最大	Min 最小	Cont.	Peak.
	1000	1200	1500	1800					
(P4)	06	6.2	7.4	9.3	11.2	1800	800	210	240
	08	8.1	9.7	12.1	14.6	1800	800	210	240
	11	11.2	13.4	13.4	20.1	1800	800	210	240
	14	14.3	17.1	21.5	25.7	1800	800	210	240
	17	17.1	20.5	25.6	30.7	1800	800	210	240
	19	19.2	23.0	28.8	34.5	1800	800	210	240
	23	23.3	27.9	34.9	41.9	1800	800	210	240
	26	26.1	31.3	39.1	46.9	1800	800	210	240
(P2~P3)	31	31.1	37.3	46.6	—	1500	800	175	240
	06	6.2	7.4	9.3	11.2	1800	800	210	260
	08	8.1	9.7	12.1	14.6	1800	800	210	260
	11	11.2	13.4	13.4	20.1	1800	800	210	260
	14	14.3	17.1	21.5	25.7	1800	800	210	260
	17	17.1	20.5	25.6	30.7	1800	800	210	260
	19	19.2	23.0	28.8	34.5	1800	800	210	260
	23	23.3	27.9	34.9	41.9	1800	800	210	260
	26	26.1	31.3	39.1	46.9	1800	800	210	260
	32	32.1	38.3	47.6	—	1500	800	175	240
(P1)	34	34.1	40.8	50.4	—	1500	800	175	240
	38	38.1	45.9	—	—	1200	800	175	240
	44	44.1	52.9	—	—	1200	800	175	210
	18	18.1	21.7	27.2	32.6	1800	800	210	260
	22	22.1	26.5	33.3	39.8	1800	800	210	260
	26	26.2	31.4	39.3	47.1	1800	800	210	260
	32	32.1	38.5	48.1	57.7	1800	800	210	260
	38	38.2	45.8	57.3	68.7	1800	800	210	260
	43	43.2	51.8	64.8	77.7	1800	800	210	260
	47	47.1	56.5	70.0	85.0	1800	800	210	260
	52	52.3	62.7	78.4	94.1	1800	800	210	260
	60	60.2	72.7	90.3	108.3	1800	800	210	260
65	65.3	78.3	97.9	117.5	1800	800	210	230	
75	75.0	90.0	112.5	—	1500	800	210	230	

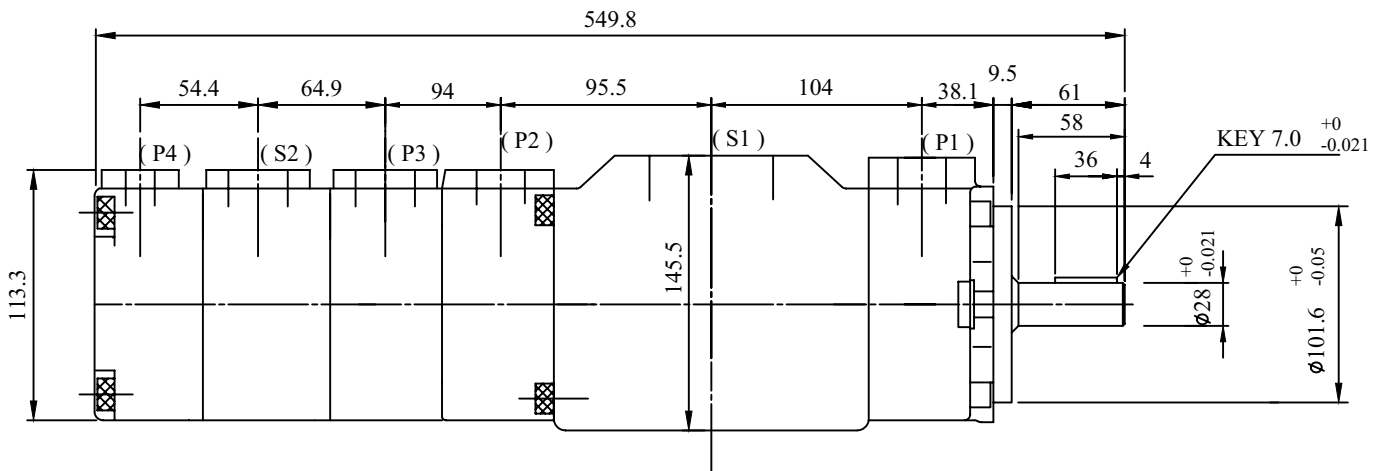
DVQ22115



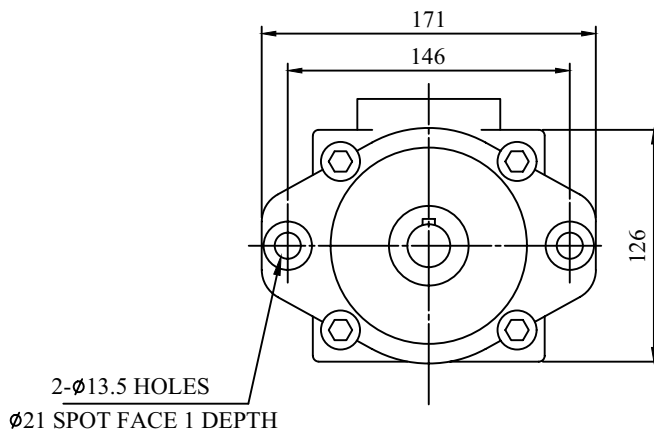
P4	型式	A	B	C
	01	38.1	17.5	$\phi 15$
02	47.6	22.2	$\phi 19.05$	

P1~P2~P3: Peak. : 260 Kg/cm²
Cont. : 210 Kg/cm²

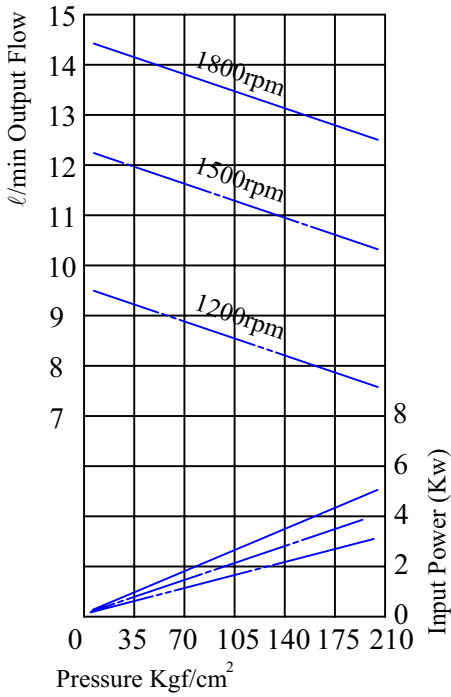
P4: Peak. : 240 Kg/cm²
Cont. : 210 Kg/cm²



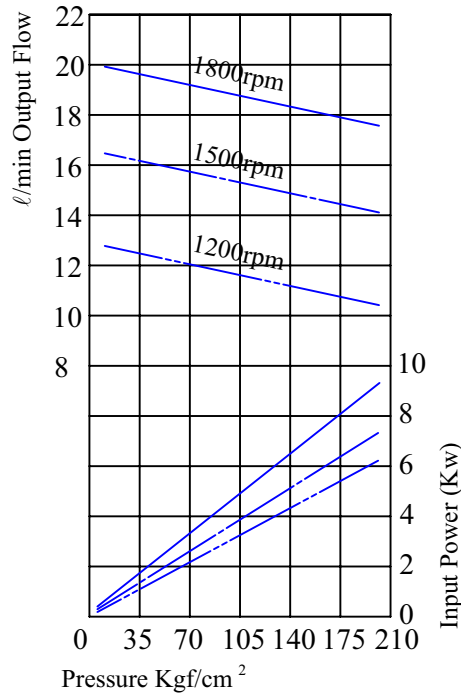
NO 1 Shaft



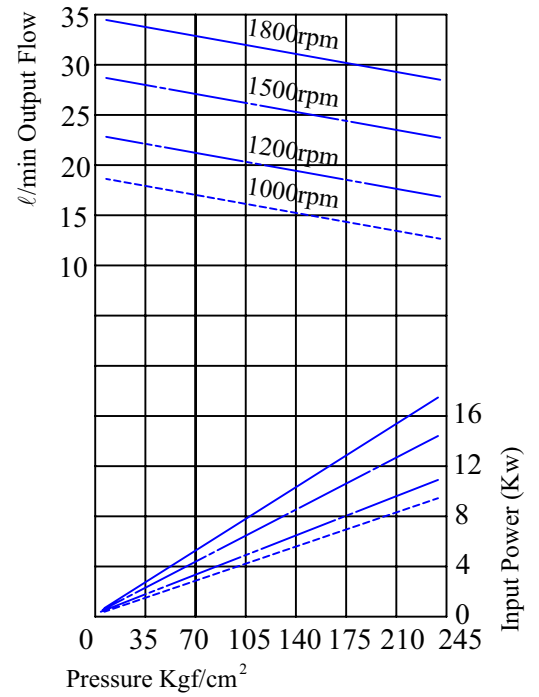
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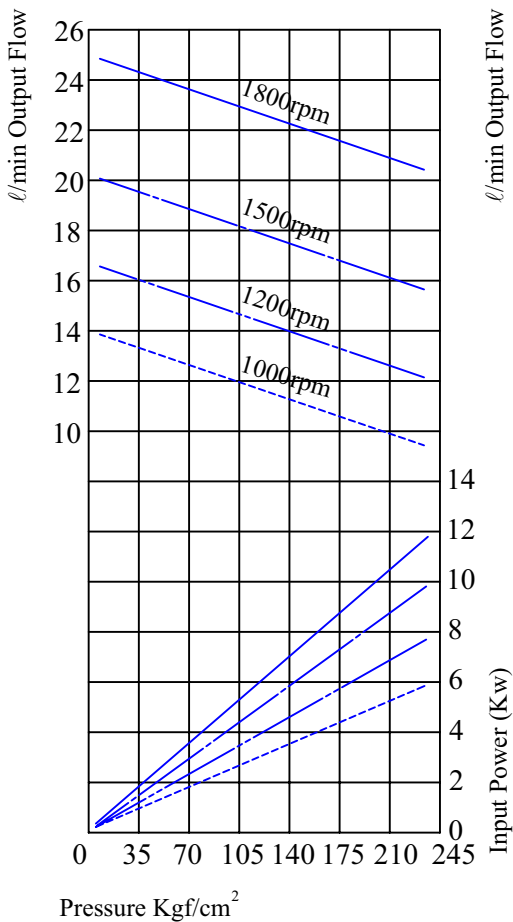
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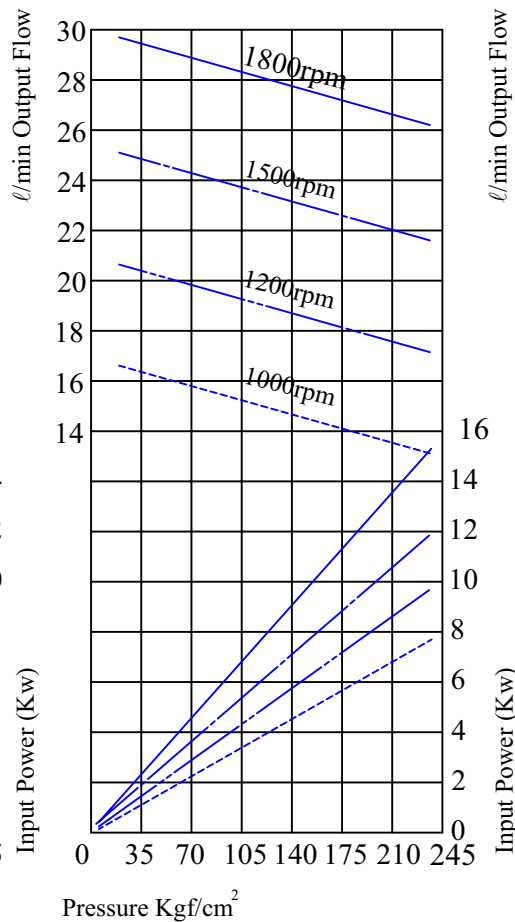
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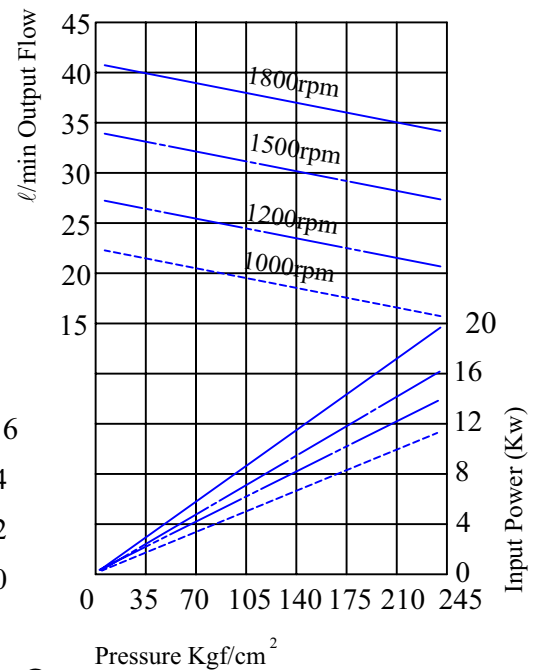
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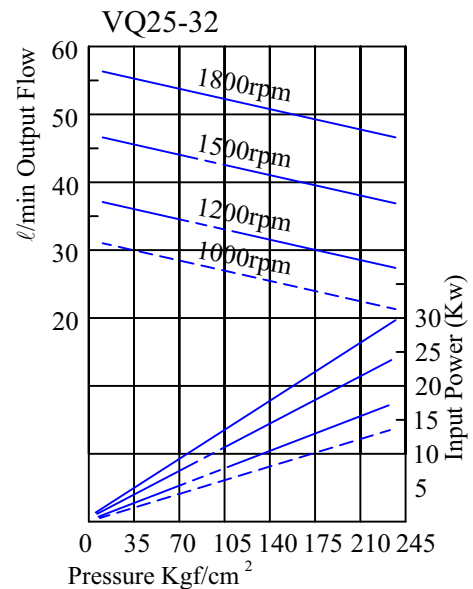
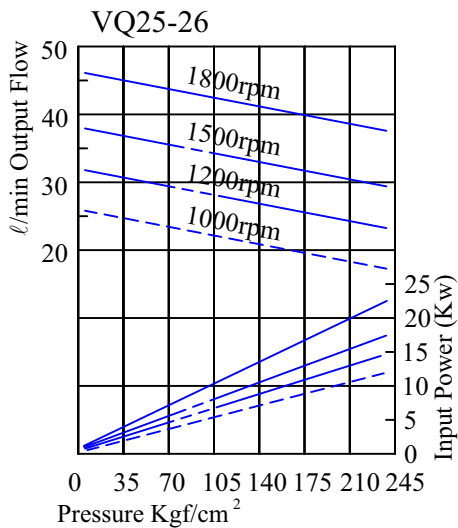
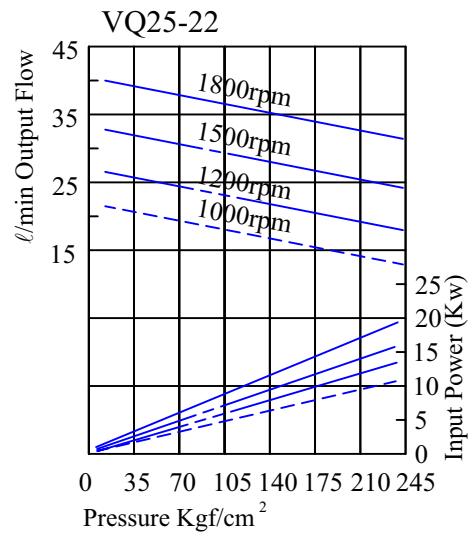
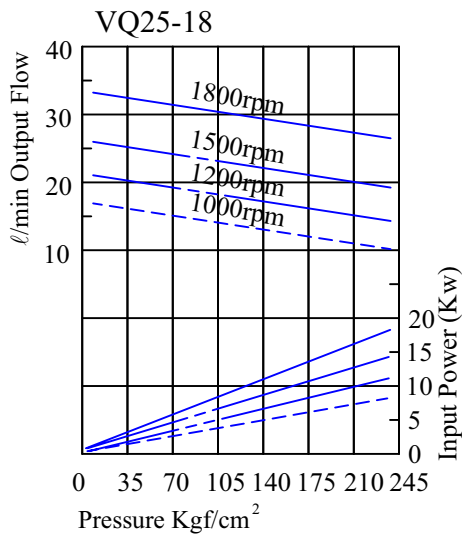
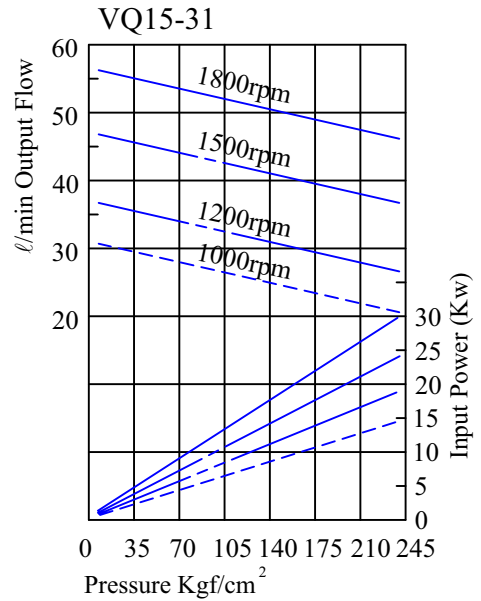
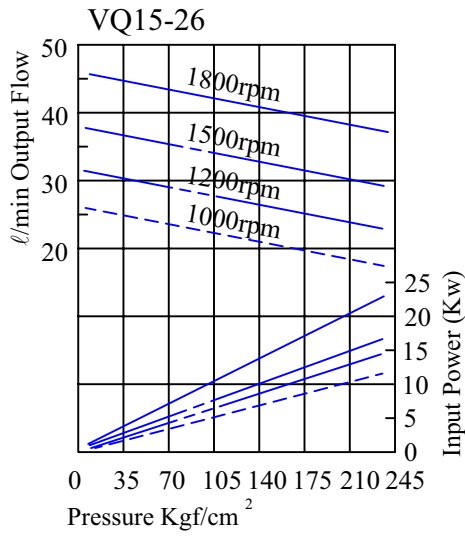


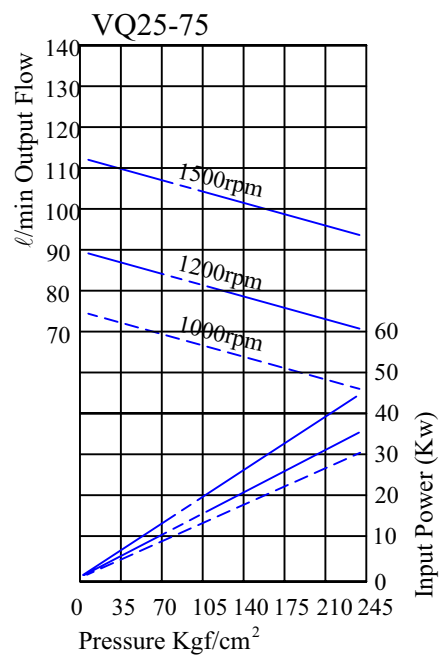
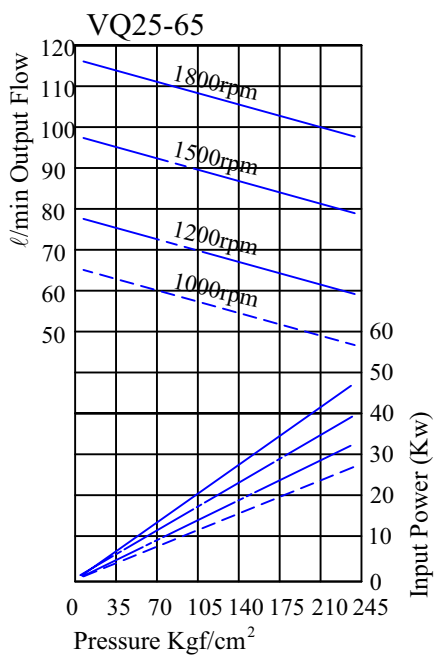
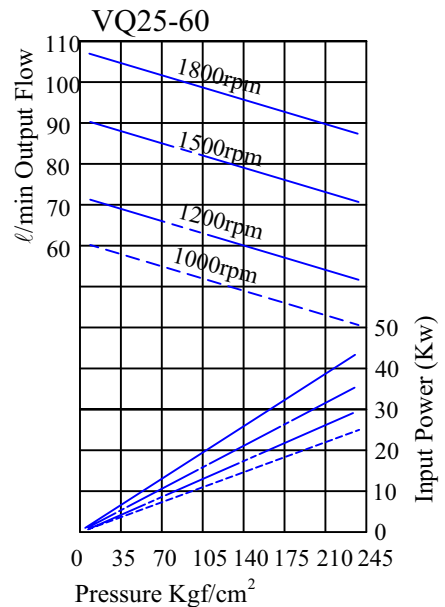
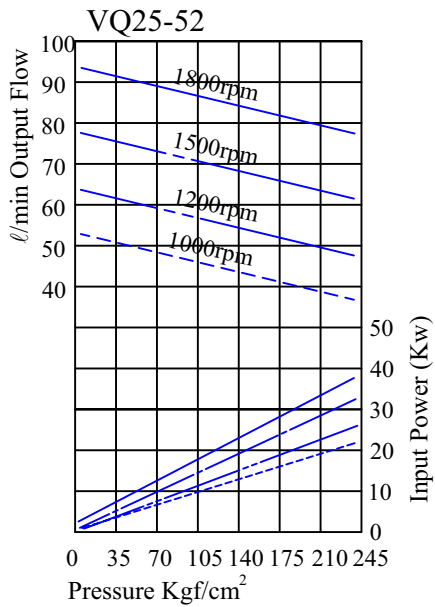
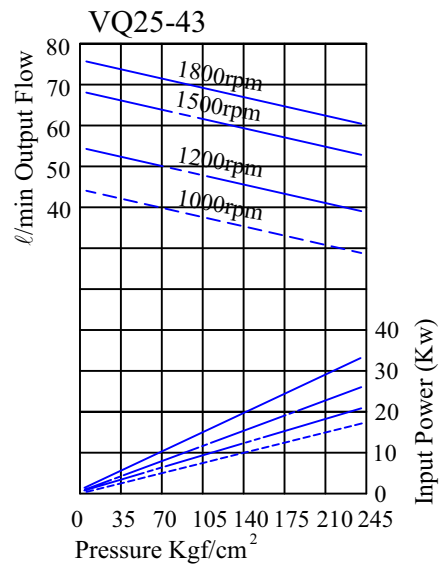
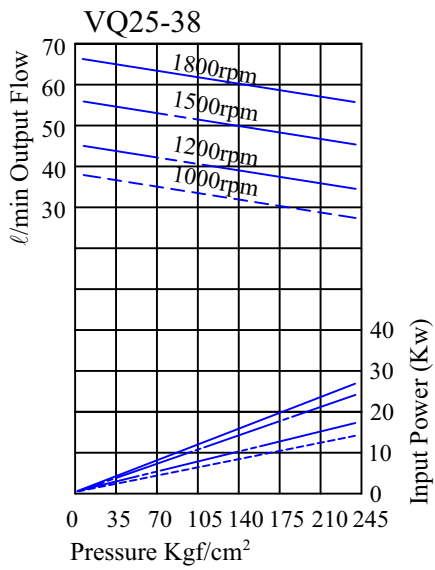
VQ15-17

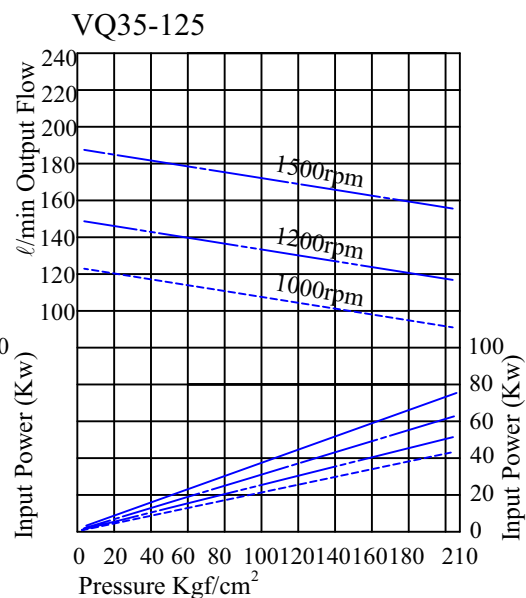
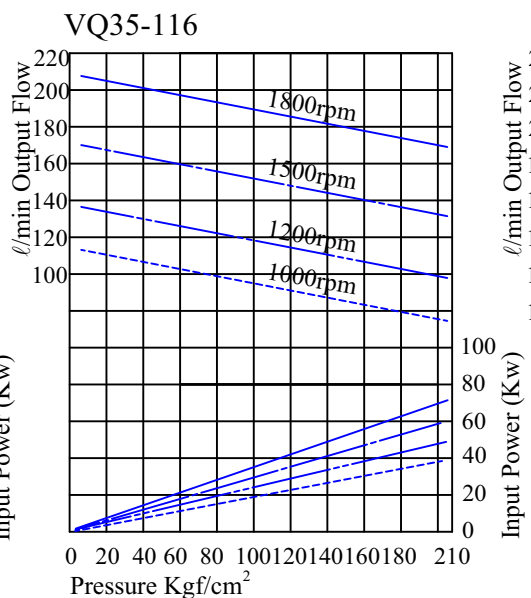
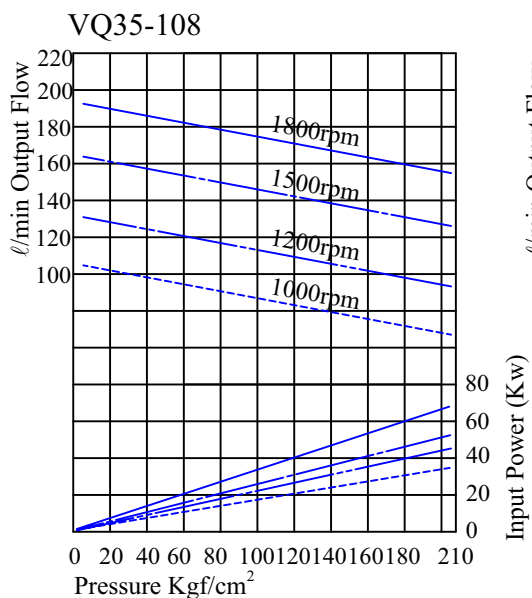
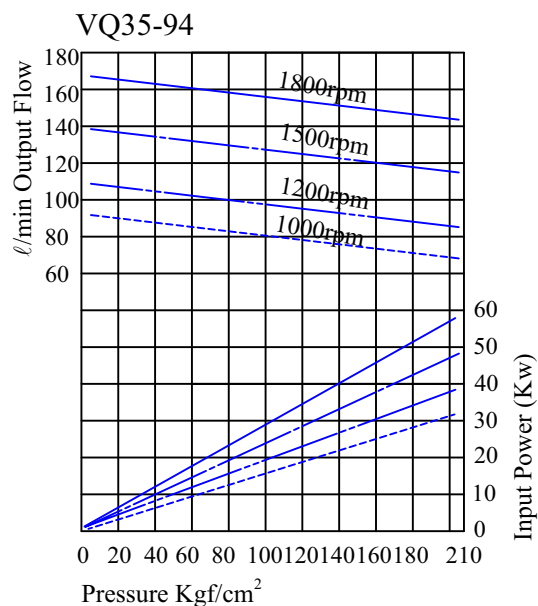
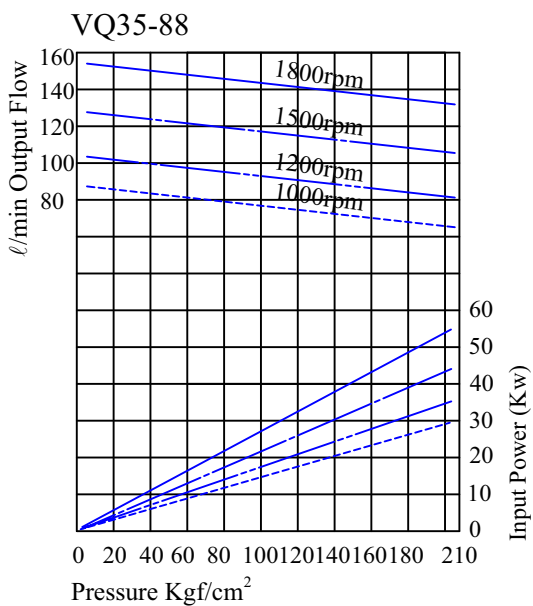
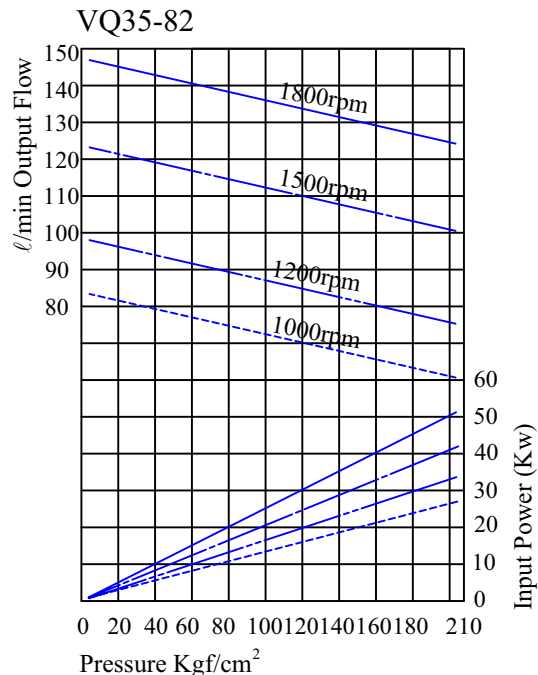
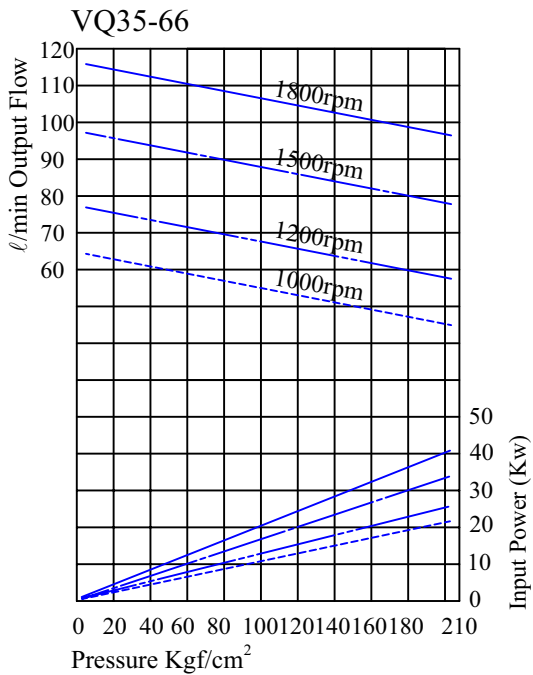


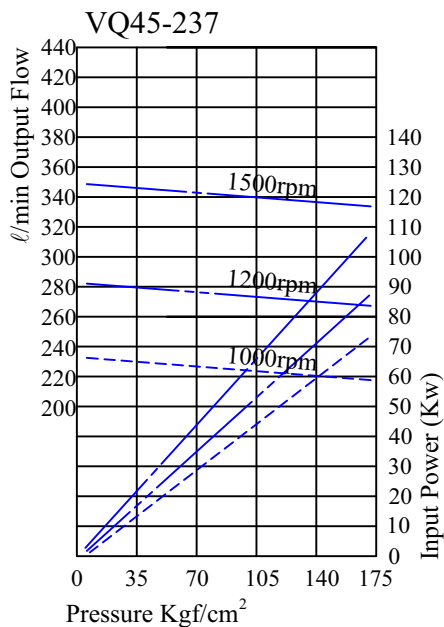
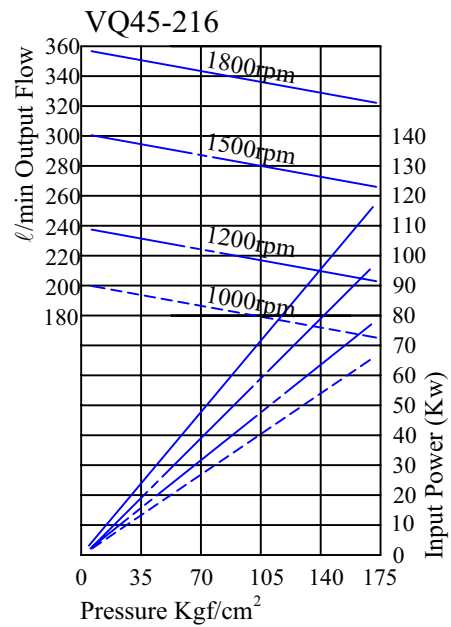
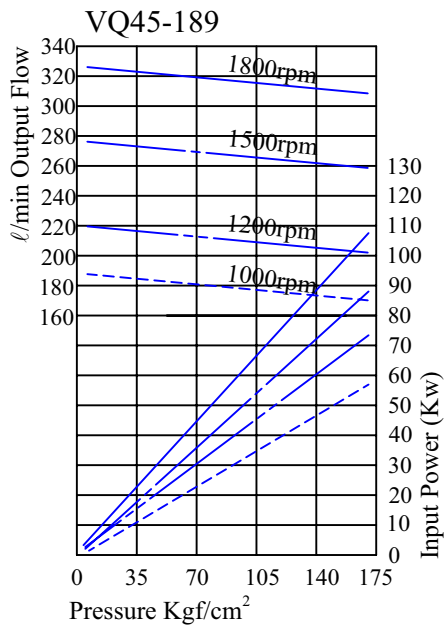
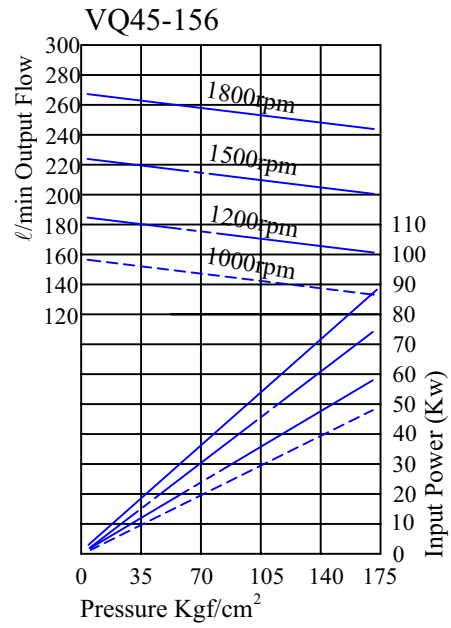
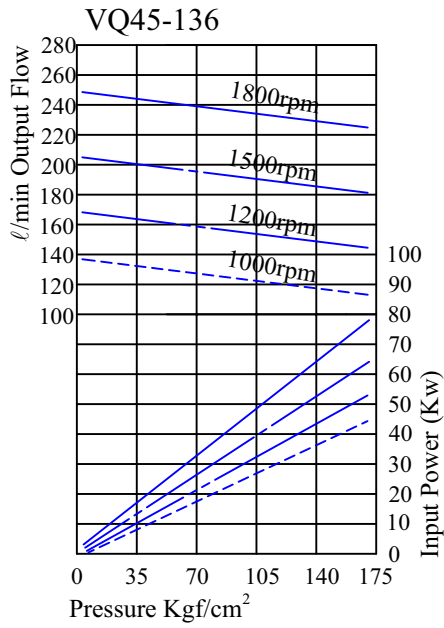
VQ15-23



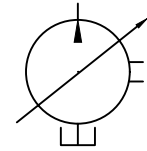








Care in Application 變量泵使用時注意事項



SYMBOL

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 duty 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/cm 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 defecttion of the alignment between the shafts to 0.05 mm TIR , and angle ± 1 degree.

Be sure 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

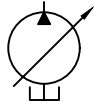
The pressure will be increased with the pressure adjusting screw is turned clockwise and will be reduced when the adjusting screw is turned counter-clockwise.

Cautions for Starting

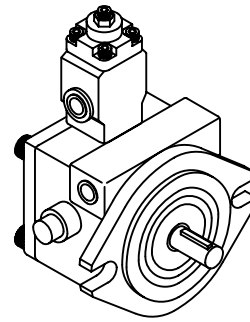
When the pump is to be operated for the first time , place the pump delivery side in NO-Load condition and repeat starting and stopping of the motor for several times to eject the air from inside of the pump and piping. If keep on 10 minutes operation will be much better.

- 7.作動油的黏度建議使用(VG32)。
- 8.泵的內漏回油管，必須單獨直接進入油箱，並且控制內漏的排油管壓力在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率在0.05mm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

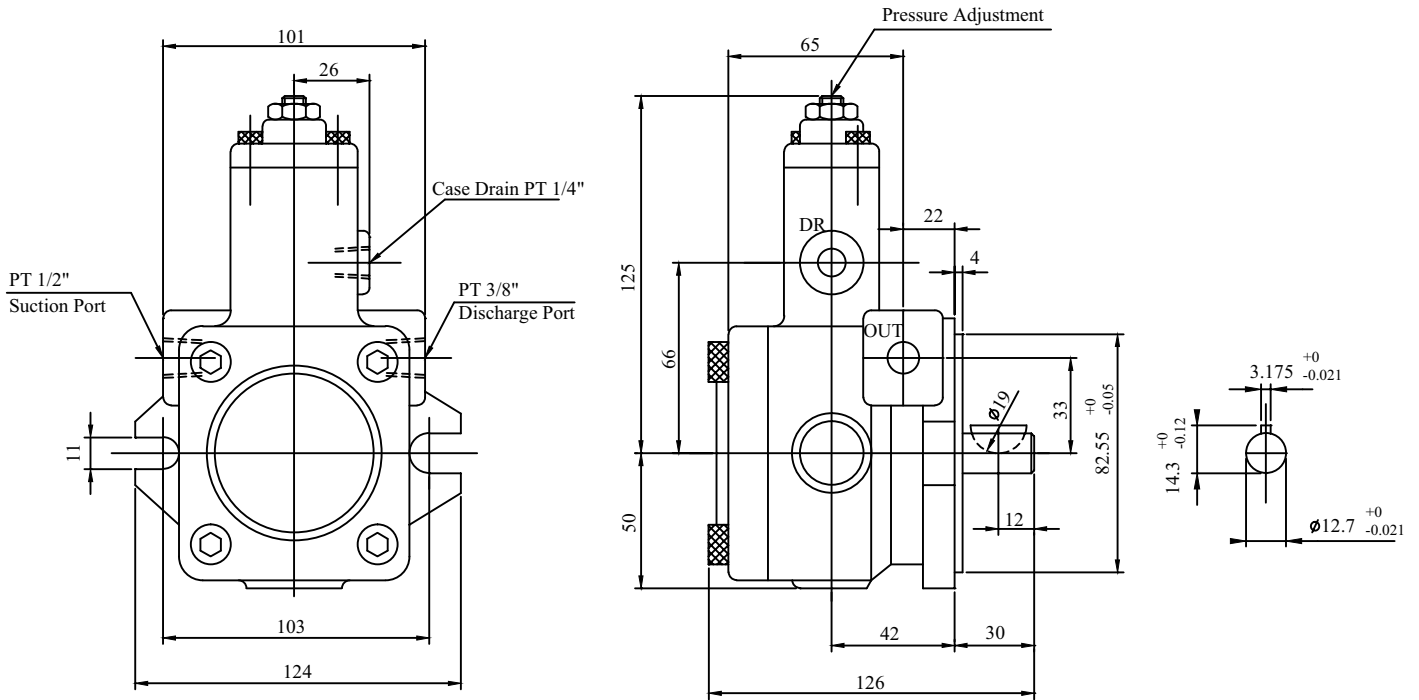
ORDERING CODE 訂購指引

VPKC-F*A*-01-A

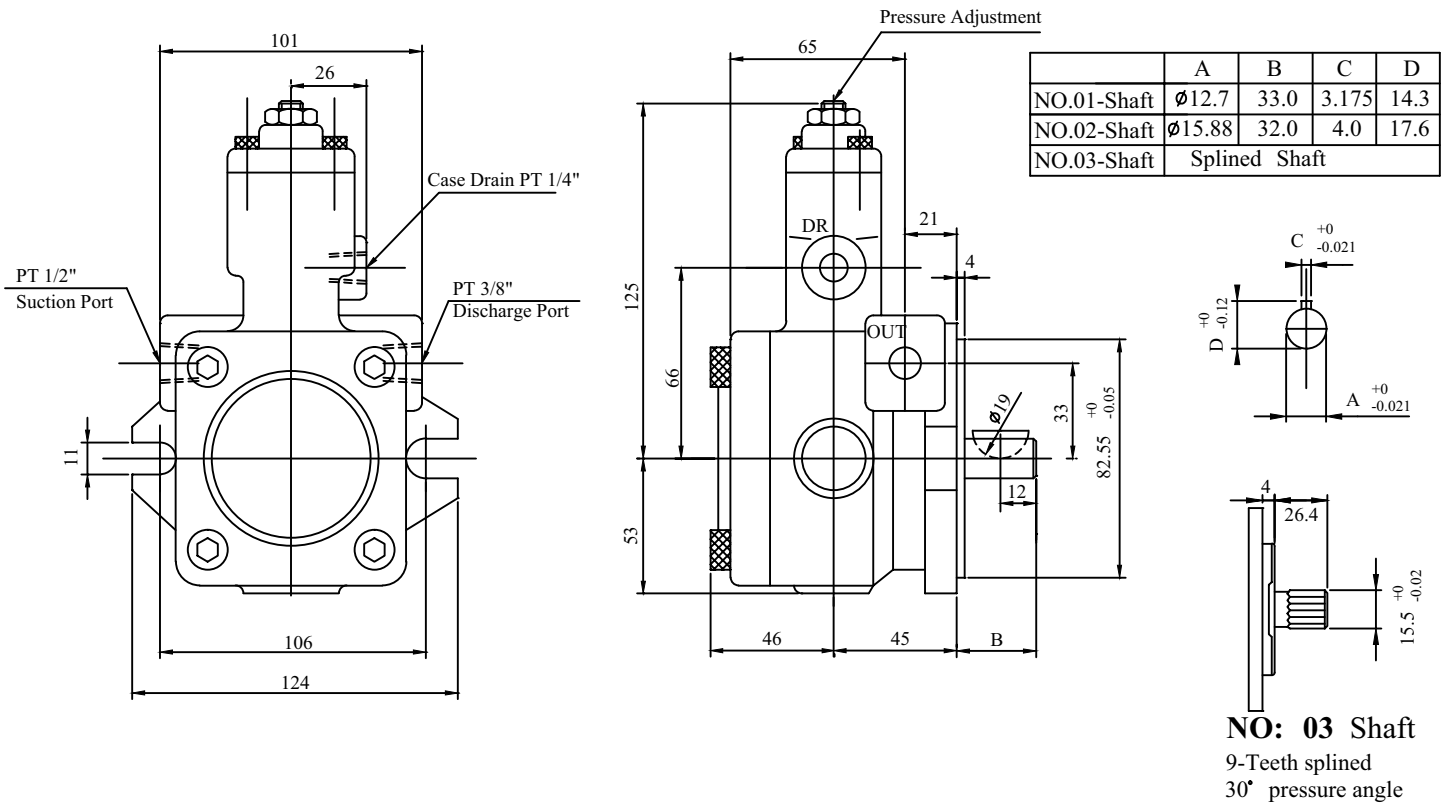
① ②③ ④ ⑤ ⑥

- 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
3:30-55 4:50-70 (Kgf/cm²)
- 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

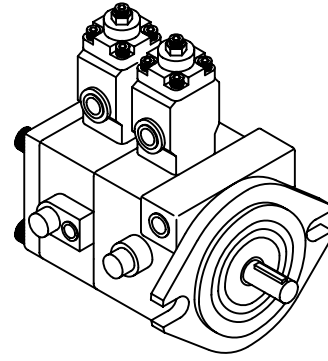
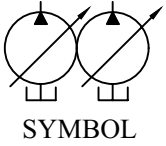
VPKC F8 & 12



VPKC F15 & 20



VPKCCF12.12
VPKCCF15.15
VPKCCF20.20



ORDERING CODE 訂購指引

VPKCC- FA*A*-01-A**

Net Weight:9.5Kg

①

②③④

⑤

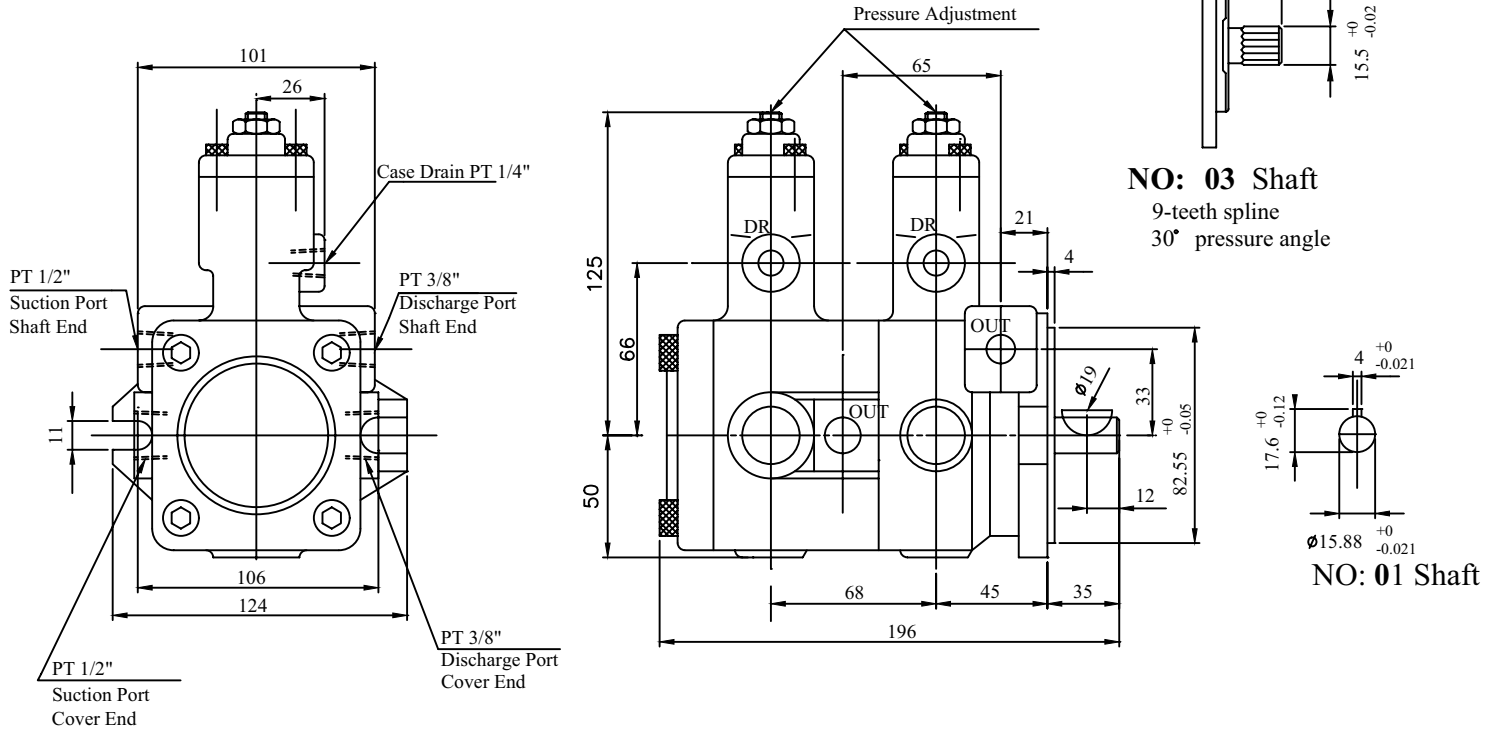
⑥

⑦

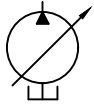
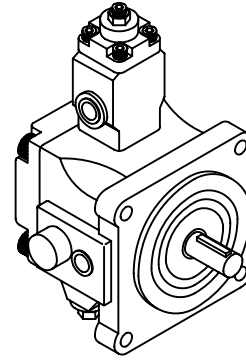
⑧

- ①—— Series Number
Double Pump
- ②—— Flange Type
- ③—— Output Flow
Shaft End Pump at 1800rpm
12,15,20 (ℓ /min)
- ④—— Output Flow
Cover End Pump at 1800rpm
12,15,20 (ℓ /min)
- ⑤—— Pressure Range
of Shaft End Pump (P1)
1:5-18 2:15-35
3:30-55 4:50-70 (Kg/cm²)
- ⑥—— Pressure Range
of Cover End Pump (P2)
1:5-18 2:15-35
3:30-55 4:50-70 (Kg/cm²)
- ⑦—— Shaft Type
- ⑧—— Type of Suction Port & Discharge Port
A or No Marking: PT
B: NPT
C: SAE
D: BSP

VPKCCF2020



VPKCF23
VPKCF26
VPKCF30
VPKCF40



SYMBOL

FEATURES 特點

Model	Operating Pressure (Kgf / cm ²)		Rated Speed (rpm)		Net Weight
			MAX	MIN	
VPKCF23	A1: 5-18 A3:30-55	A2:15-35 A4:50-70	1800	800	9.0Kg
VPKCF26	A1: 5-18 A3:30-55	A2:15-35 A4:50-70	1800	800	9.0Kg
VPKCF30	A1: 5-18 A3:30-55	A2:15-35 A4:50-70	1800	800	9.0Kg
VPKCF40	A1: 5-18 A3:30-55	A2:15-35 A4:50-70	1800	800	9.0Kg

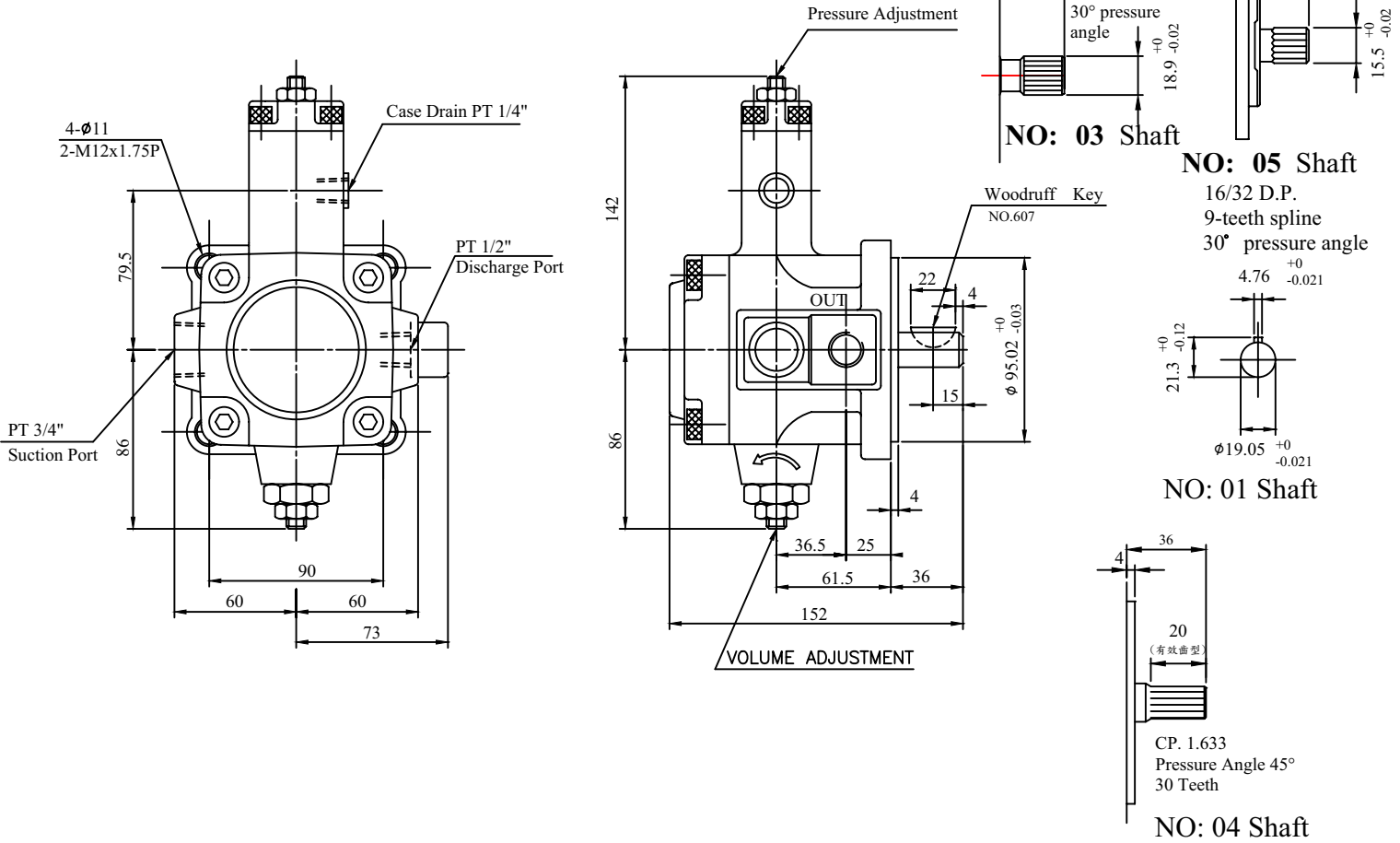
ORDERING CODE 訂購指引

VPKC-F*A*-01-A

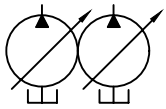
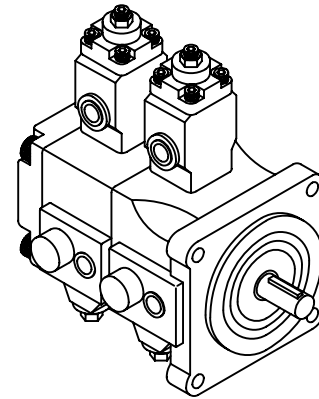
① ②③ ④ ⑤ ⑥

- ① — Series Number
- ② — Flange Type
- ③ — Output Flow at 1800rpm
23,26,30,40 (ℓ /min)
- ④ — Pressure Adjusting Range
1:5-18 2:15-35
3:30-55 4:50-70 (Kgf/cm²)
- ⑤ — Shaft Type
- ⑥ — Type of Suction Port & Discharge Port Type
A or No Marking: PT
B: NPT
C: SAE
D: BSP

VPKCF30



VPKCCF23.23
VPKCCF26.26
VPKCCF30.30
VPKCCF40.40



SYMBOL

ORDERING CODE 訂購指引

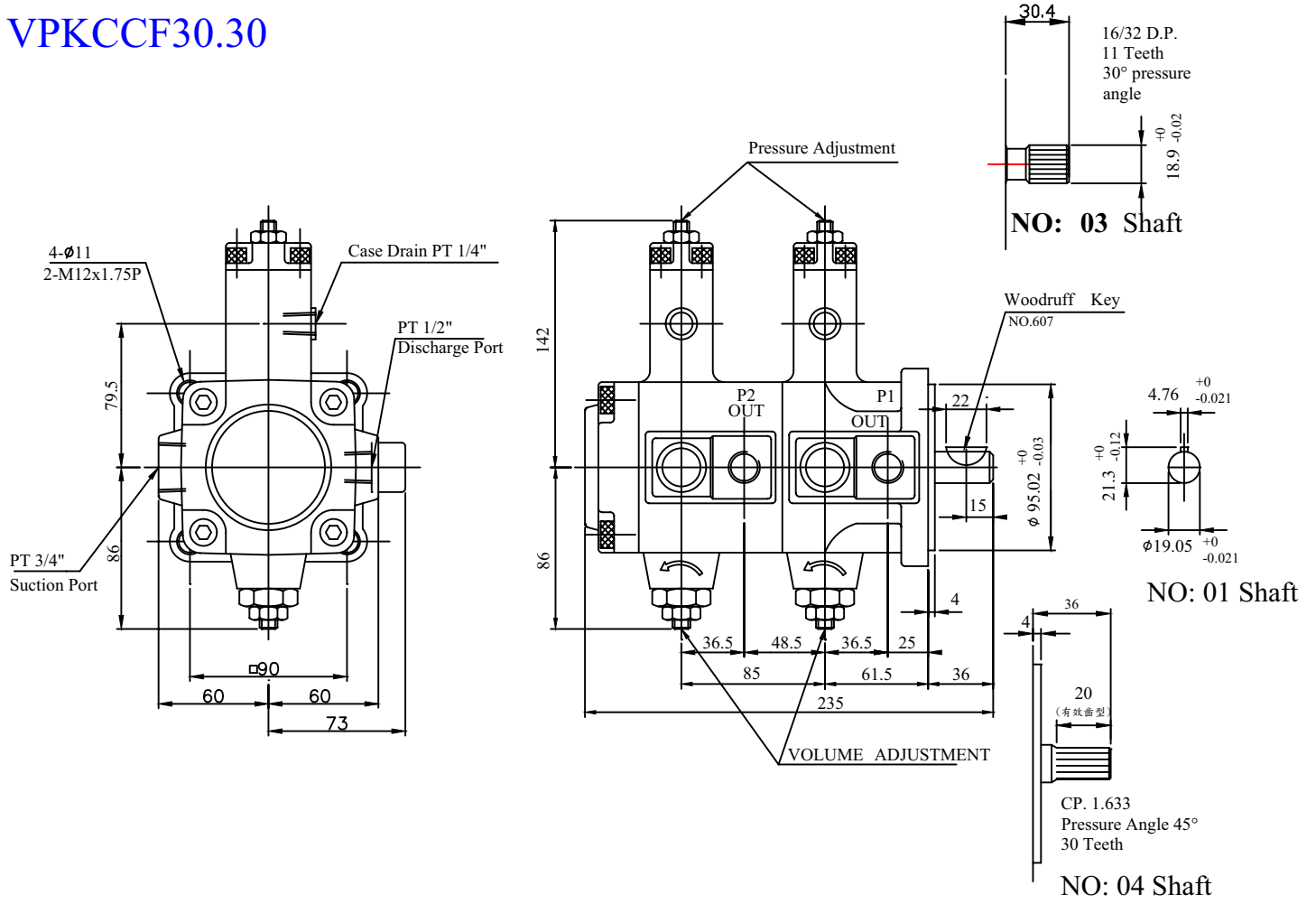
VPKCC- FA*A*-01-A**

Net Weight: 16Kg

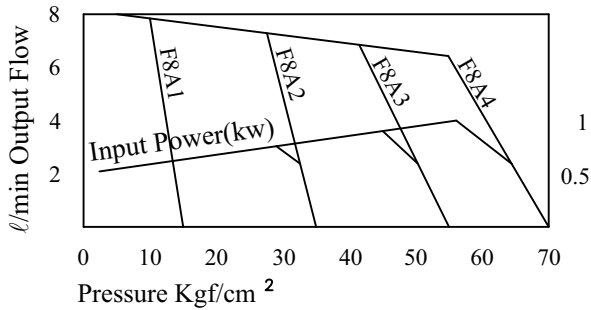
① ②③④ ⑤ ⑥ ⑦ ⑧

- ① — Series Number
Double Pump
- ② — Flange Type
- ③ — Output Flow
Shaft End Pump at 1800rpm
23,26,30,40 (ℓ/min)
- ④ — Output Flow
Cover End Pump at 1800rpm
23,26,30,40 (ℓ/min)
- ⑤ — Pressure Range
of Shaft End Pump (P1)
1:5-18 2:15-35
3:30-55 4:50-70 (Kgf/cm²)
- ⑥ — Pressure Range
of Cover End Pump (P2)
1:5-18 2:15-35
3:30-55 4:50-70 (Kgf/cm²)
- ⑦ — Shaft Type
- ⑧ — Type of Suction Port & Discharge Port
A or No Marking: PT
B: NPT
C: SAE
D: BSP

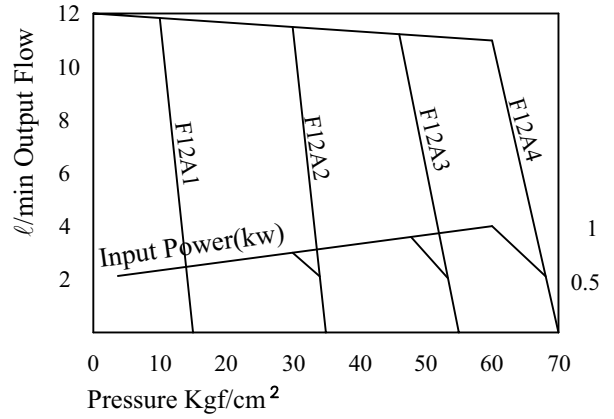
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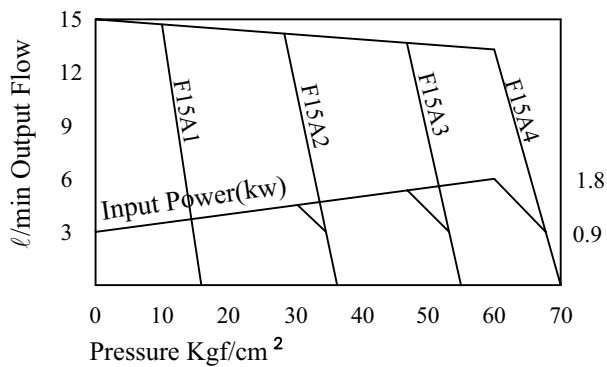
VPKCF8



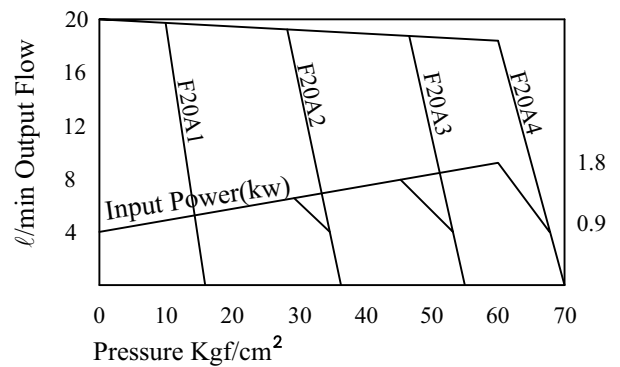
VPKCF12



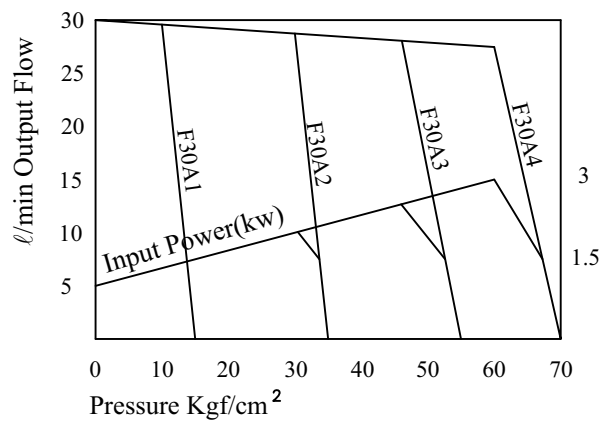
VPKCF15



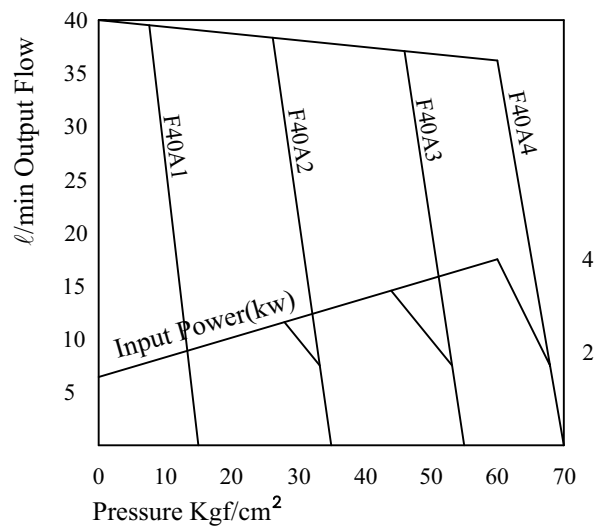
VPKCF20

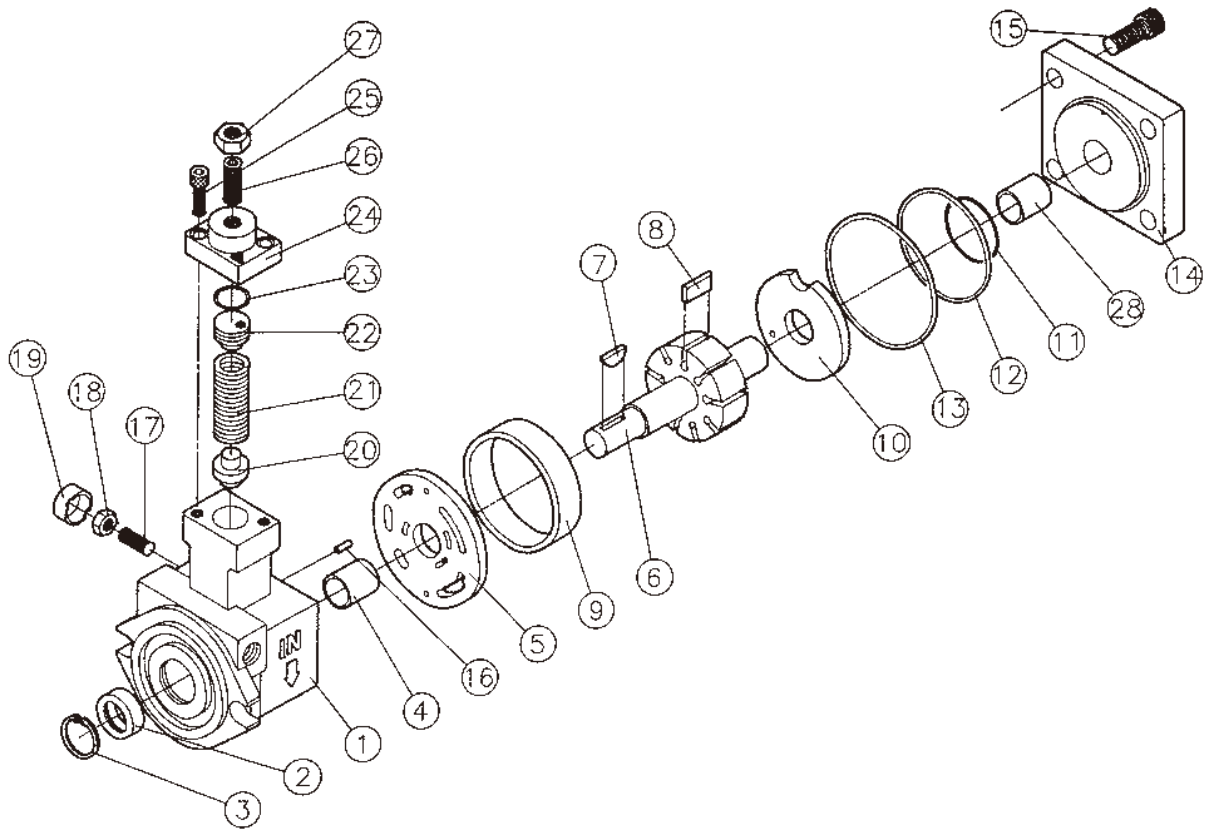


VPKCF30



VPKCF40

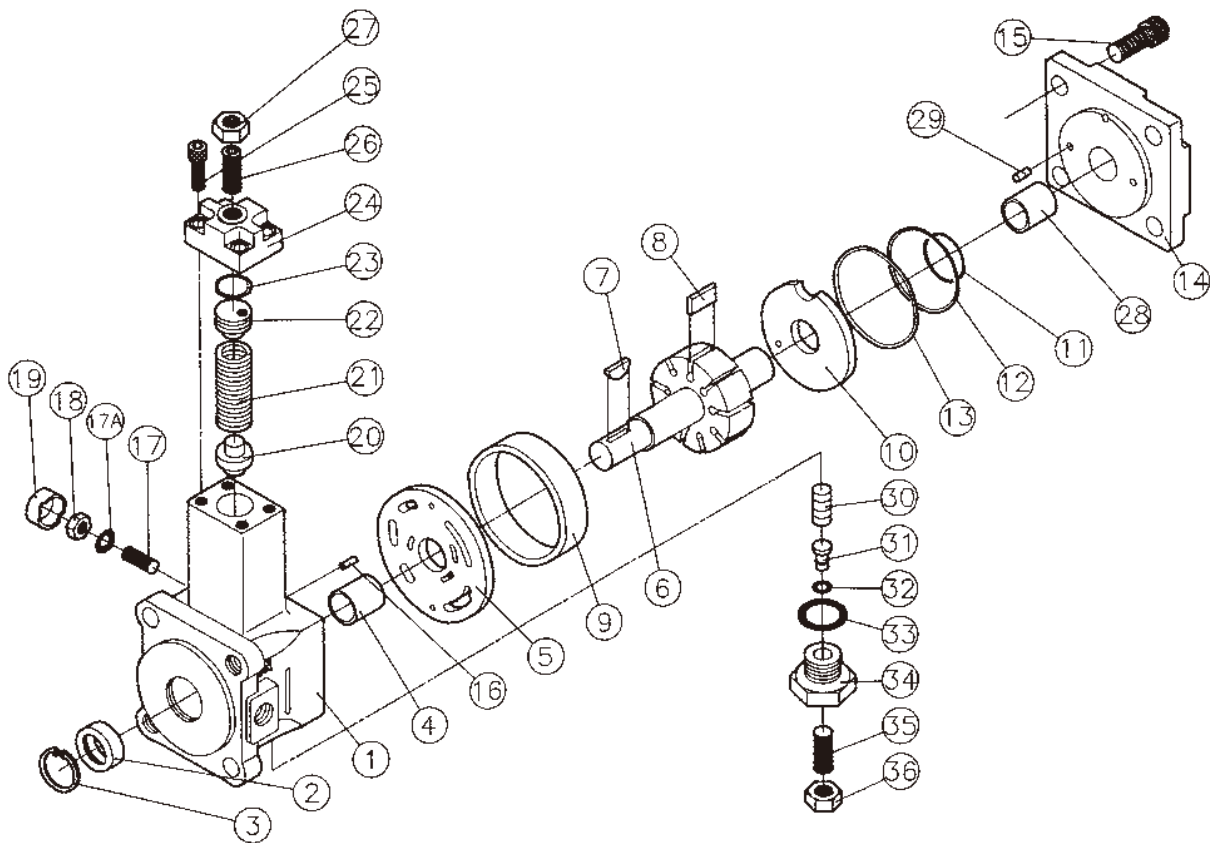




VPKC Single Pump Parts List

VPKC (F8、F12、F15、F20)系列單泵零件表

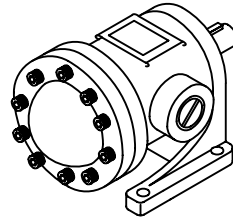
- | | |
|----------------------------|--|
| NO.1 Housing (體) | NO.17 O - Ring + Slide Screw (O型環+調中心螺絲) |
| NO.2 Seal (油封) | NO.18 Nut (螺帽) |
| NO.3 Retainer Ring (扣環) | NO.19 Protect Cover (保護蓋) |
| NO.4 Engine Bush (乾式軸承) | NO.20 Piston (雙頭活塞) |
| NO.5 Port Plate A (壓力板 A) | NO.21 Spring (彈簧) |
| NO.6 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) | |



VPKC Single Pump Parts List VPKC(F23、F26、F30、F40) 系列單泵零件表

NO.1 Housing (體)	NO.19 Cap (保護蓋)
NO.2 Seal (油封)	NO.20 Piston (雙頭活塞)
NO.3 Retainer Ring (扣環)	NO.21 Spring (彈簧)
NO.4 Engine Bush (乾式軸承)	NO.22 Spring Retainer (彈簧承座)
NO.5 Port Plate A (壓力板 A)	NO.23 O - Ring (O型環)
NO.6 Rotor (轉子)	NO.24 Cover (側蓋)
NO.7 Woodruff Key (半圓鍵)	NO.25 Socket Head Cap-Screw (側蓋螺絲)
NO.8 Vanes (葉片)	NO.26 Socket Set Screw (調壓螺絲)
NO.9 Cam Ring (軸環)	NO.27 Nut (螺帽)
NO.10 Port Plate B (壓力板 B)	NO.28 Engine Bush (乾式軸承)
NO.11 O - Ring (O型環)	NO.29 Lock Pin (定位銷)
NO.12 O - Ring (O型環)	NO.30 Piston (活塞)
NO.13 O - Ring (O型環)	NO.31 Piston (活塞)
NO.14 Cover (蓋)	NO.32 O - Ring (O型環)
NO.15 Cap-Screw (上蓋螺絲)	NO.33 O - Ring (O型環)
NO.16 Lock Pin (定位銷)	NO.34 Thrust Screw (流量調整螺絲)
NO.17 Slide Screw (調中心螺絲)	NO.35 Socket Set Screw (調壓螺絲)
NO.17A O - Ring (O型環)	NO.36 Nut (螺帽)
NO.18 Nut (螺帽)	

50T
150T



Model 型號	Delivery Flow (ℓ/min) no-load pressure 無負壓的傳輸流量				Running Speed (rpm) 轉速		Weight(Kg) 重量		Max Pressure (Kg/cm ²) 最大壓力	
	Running Speed (rpm) 轉速				Max 最大	Min 最小	Foot Type 腳座型	Flange Type 法蘭型		
	1000	1200	1500	1800						
50T	09	—	10.8	13.5	16.2	1800	950	10	9.5	105
	12	12.0	14.4	18.0	21.6	1800	950	10	9.5	105
	14	14.6	17.5	21.7	26.1	1800	950	10	9.5	105
	17	17.0	20.3	25.5	31.5	1800	950	10	9.5	105
	19	19.2	23.0	28.8	34.6	1800	950	10	9.5	105
	21	21.1	25.3	31.7	38.0	1800	950	10	9.5	105
	23	23.0	27.6	34.5	41.4	1800	950	10	9.5	105
	26	26.2	31.4	39.3	47.2	1800	950	10	9.5	105
	30	30.1	36.1	45.2	54.0	1800	950	10	9.5	105
36	36.2	43.4	54.3	—	1500	950	10	9.5	70	
40	41.5	49.8	—	—	1200	950	10	9.5	70	
150T	48	48.3	57.9	72.4	86.9	1800	900	24	24	90
	61	61.5	73.8	92.2	110.7	1800	900	24	24	90
	75	75.2	90.6	113.2	135.9	1500	900	24	24	90
	94	94.2	113.0	141.3	—	1500	900	24	24	70
	116	116.3	139.6	—	—	1200	900	24	24	70
	125	125.3	150.4	—	—	1200	900	24	24	70

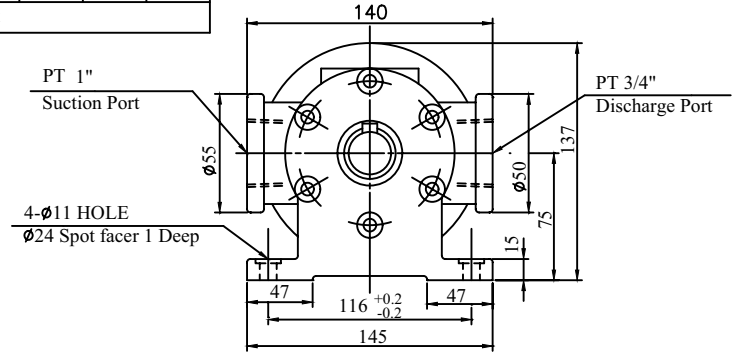
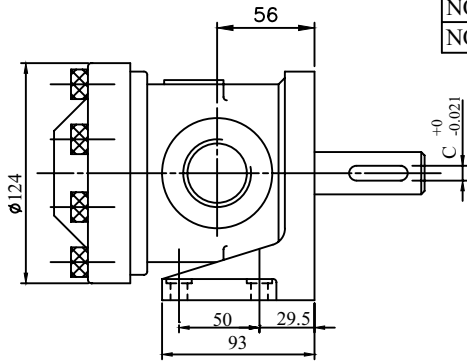
ORDERING CODE 訂購指引

50 T - 12 - F - R R - 01
 ① ② ③ ④ ⑤ ⑥ ⑦

- ①—— Series Number(型號)
50T-
150T-
- ②—— Piping Mounting(管口形式)
T: Piping Type(管徑牙口) F: Flange Type(法蘭型)
- ③—— Capacity Mark: (c.c/rev)(流量)
50T:09,12,14,17,19,21,23,26,30,36,40
150T:48,61,75,94,116,125
- ④—— Flange Type(安裝方式)
L: Foot Type(腳座型) F: Flange Type(法蘭型)
- ⑤—— Shaft Rotation(心軸轉向)
(Viewed From Shaft End)
R: Clockwise (順時針) L: Anti-Clockwise(反時針)
- ⑥—— Discharge Port Position(出口位置)
(Viewed From Shaft End)
R: On Right Hand(右) L: On Left Hand (normal(左))
- ⑦—— Shaft Type(心軸種類) 01: No.01 Shaft
02: No.02 Shaft

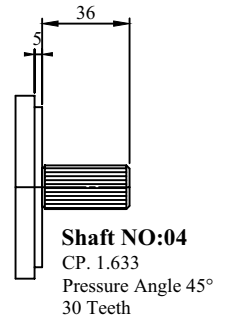
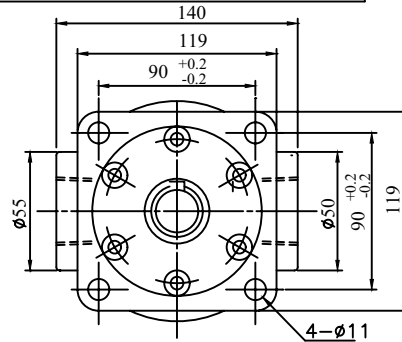
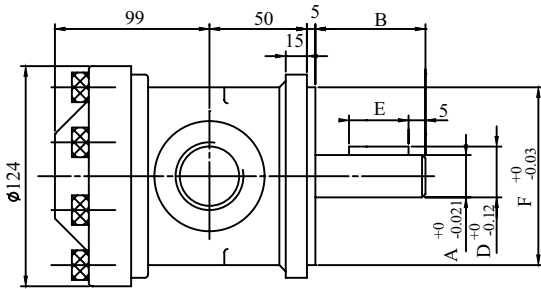
50T (Foot Type) 腳座型

	A	B	C	D	E
NO.01-Shaft	∅19.05	36.0	4.76	21.3	32
NO.02-Shaft	∅22.0	46.0	5.0	24.0	30.0
NO.04-Shaft	Splined Shaft				

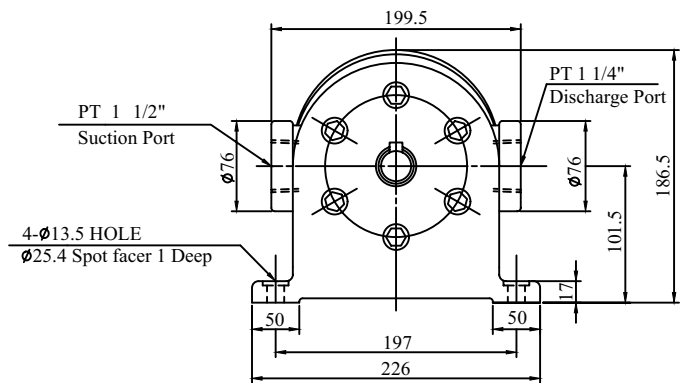
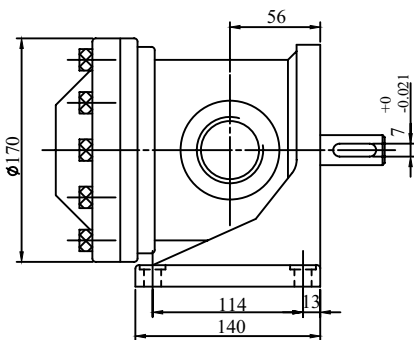


50T (Flange Type) 法蘭型

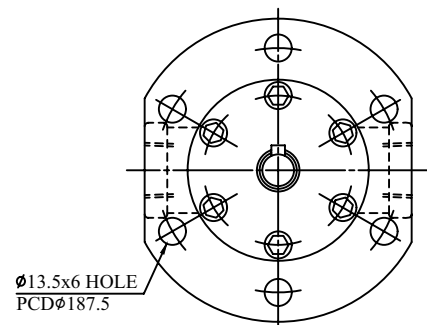
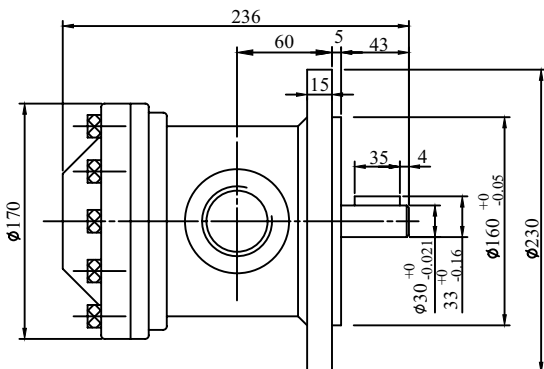
	A	B	C	D	E	F
NO.01-Shaft	∅19.05	36.0	4.76	21.3	32	∅95.02
NO.02-Shaft	∅22.0	46.0	5.0	24.0	30.0	∅96.02
NO.04-Shaft	Splined Shaft					



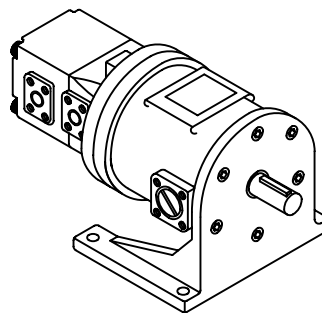
150T (Foot Type) 腳座型



150T (Flange Type) 法蘭型



50T+VQ15
150T+VQ15



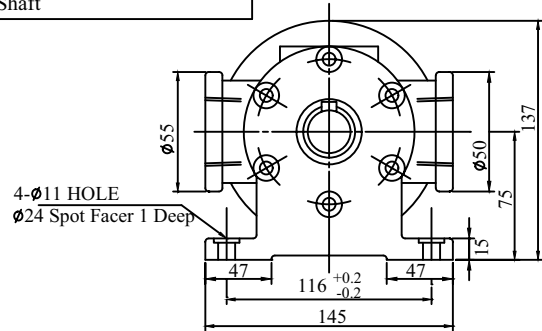
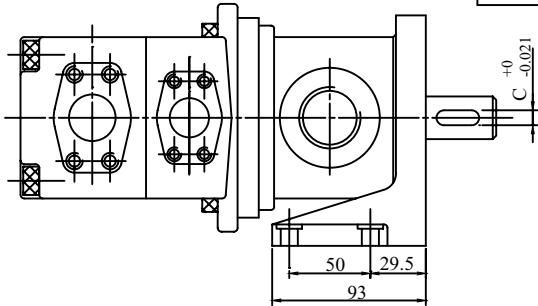
ORDERING CODE 訂購指引

50 T - 36 - L R R - V1 - 17 - 01
① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨

- ①— Series Number(型號)
50T-
150T-
- ②— Piping Mounting(管口形式)
T: Piping Type(管徑牙口) **F**: Flange Type(法蘭型)
- ③— Capacity Mark: (c.c/rev)(流量)
50T:09,12,14,17,19,21,23,26,30,36,40
150T:48,61,75,94,116,125
- ④— Flange Type(安裝方式)
L: Foot Type(腳座型) **F**: Flange Type(法蘭型)
- ⑤— Shaft Rotation(心軸轉向)
(Viewed From Shaft End)
R: Clockwise (順時針) **L**: Anti-Clockwise(反時針)
- ⑥— Discharge Port Position(出口位置)
(Viewed From Shaft End)
R: On Right Hand(右) **L**:On Left Hand (normal)(左)
- ⑦— Hi - pressure Fixed Vane Pump(Cover End)(銜接型號)
V1:VQ15 Series
- ⑧— Hi pressure Fixed Vane Pump (Cover End)(銜接流量)
Capacity Mark (c.c/rev)
6, 8, 11, 14, 17, 19, 23, 26, 31
- ⑨— Shaft Type(心軸種類) 01:No.01 Shaft
02:No.02 Shaft

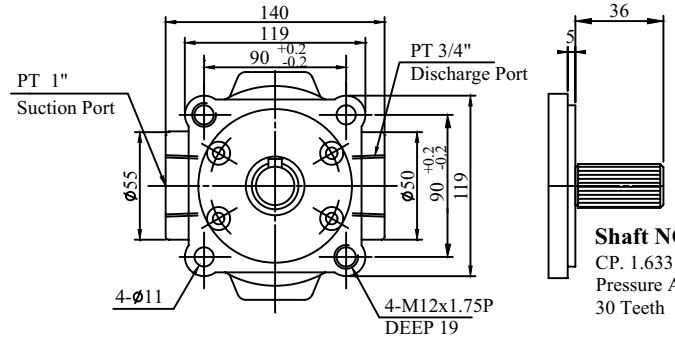
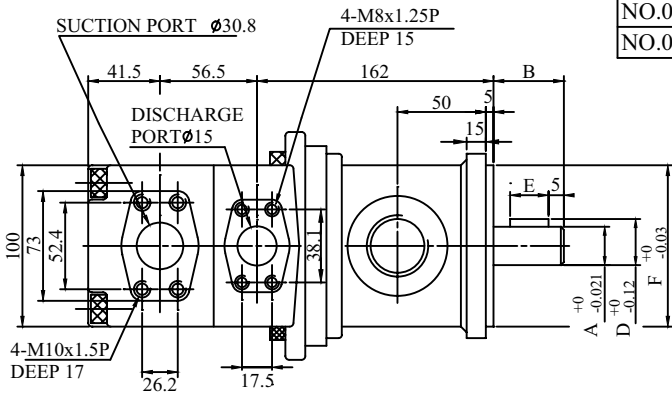
50T+VQ15 (Foot Type)腳座型

	A	B	C	D	E
NO.01-Shaft	∅19.05	36.0	4.76	21.3	32
NO.02-Shaft	∅22.0	46.0	5.0	24.0	30.0
NO.04-Shaft	Splined Shaft				

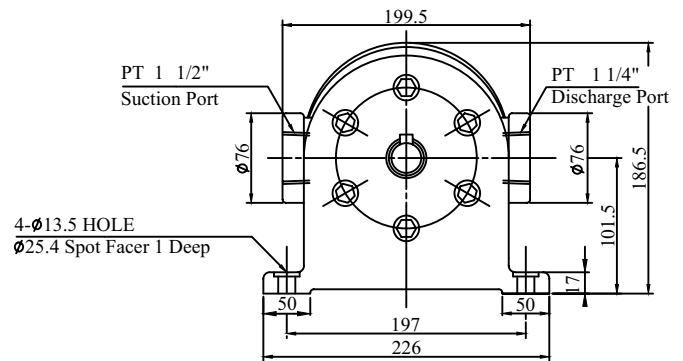
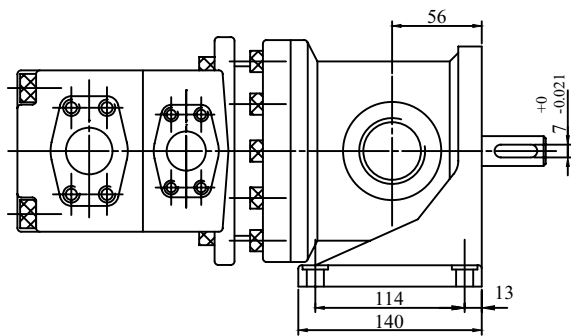


50T+VQ15 (Flange Type)法蘭型

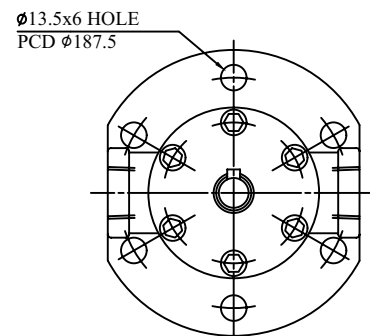
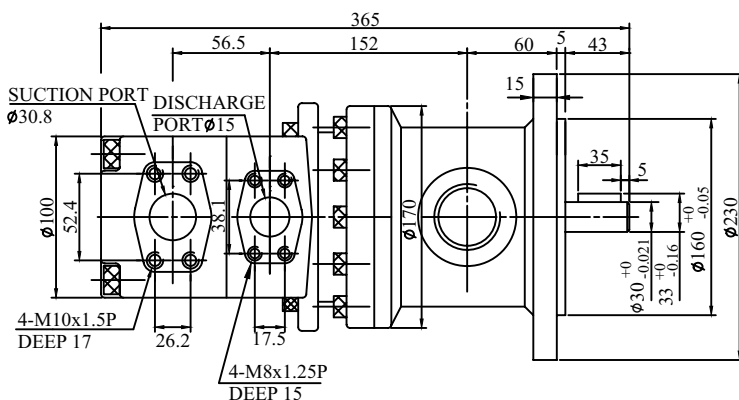
	A	B	C	D	E	F
NO.01-Shaft	∅19.05	36.0	4.76	21.3	32	∅95.02
NO.02-Shaft	∅22.0	46.0	5.0	24.0	30.0	∅96.02
NO.04-Shaft	Splined Shaft					



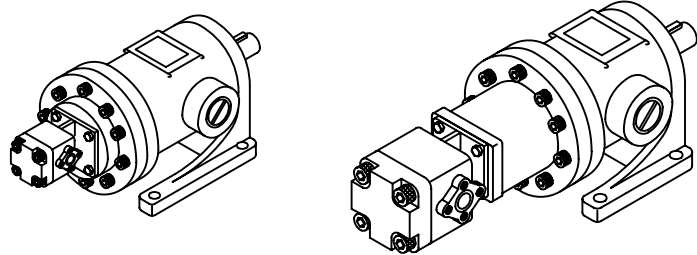
150T+VQ15 (Foot Type)腳座型



150T+VQ15 (Flange Type)法蘭型



50T+PA
150T+PA



ORDERING CODE 訂購指引

50 T - 36 - L R R - G - PA5 - 01

① ② ③ ④ ⑤ ⑥ ⑦ ⑧

- ①—— Series Number(型號)
50T-
150T-
- ②—— Piping Mounting(管口形式)
T: Piping Type(管徑牙口) F: Flange Type(法蘭型)
- ③—— Capacity Mark: (c.c/rev)(流量)
50T:09,12,14,17,19,21,23,26,30,36,40
150T:48,61,75,94,116,125
- ④—— Flange Type
L: Foot Type(腳座型) F: Flange Type(法蘭型)
- ⑤—— Shaft Rotation(心軸轉向)
(Viewed From Shaft End)
R: Clockwise (順時針) L: Anti-Clockwise(反時針)
- ⑥—— Discharge Port Position(出口位置)
(Viewed From Shaft End)
R: On Right Hand(右) L: On Left Hand (normal)(左)

⑦—— (銜接型號)

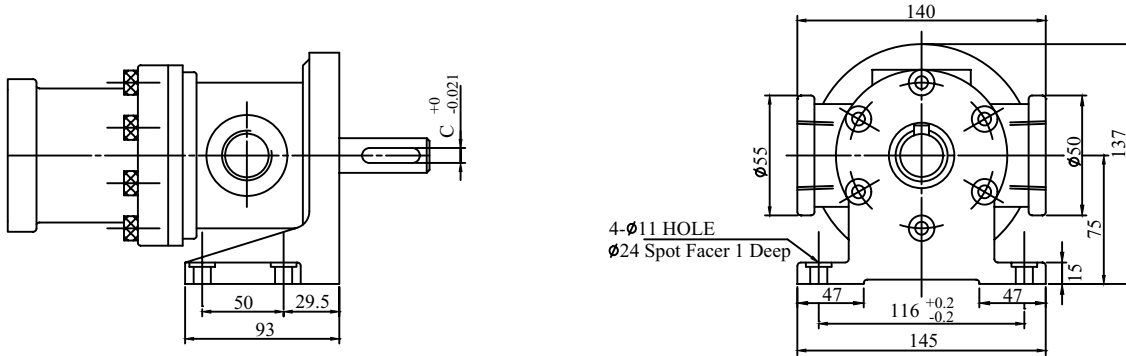
Model	Capacity
PA1	1.07
PA2	2.02
PA3	3.01
PA4	4.01
PA5	6.05

High-Pressure
Gear Pump
(Cover End)
(c.c/rev)

- ⑧—— Shaft Type(心軸種類) 01: No.01 Shaft
02: No.02 Shaft

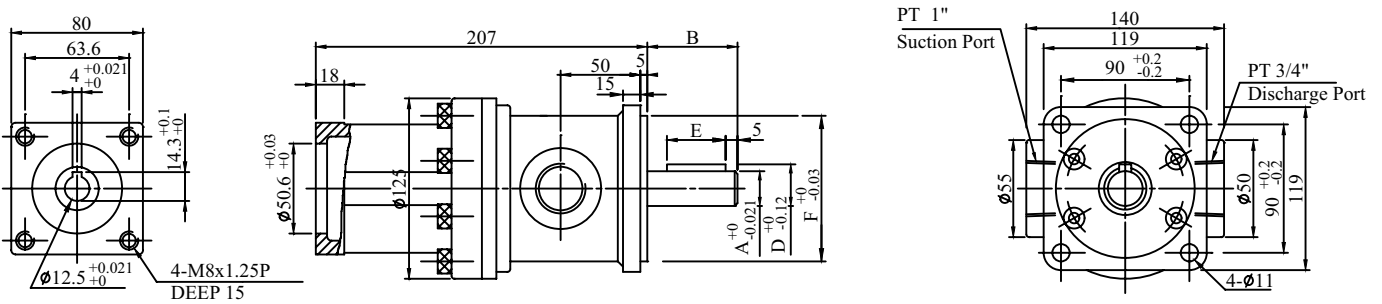
50T+PA (Foot Type)脚座型

	A	B	C	D	E
NO.01-Shaft	∅19.05	36.0	4.76	21.3	32
NO.02-Shaft	∅22.0	46.0	5.0	24.0	30.0

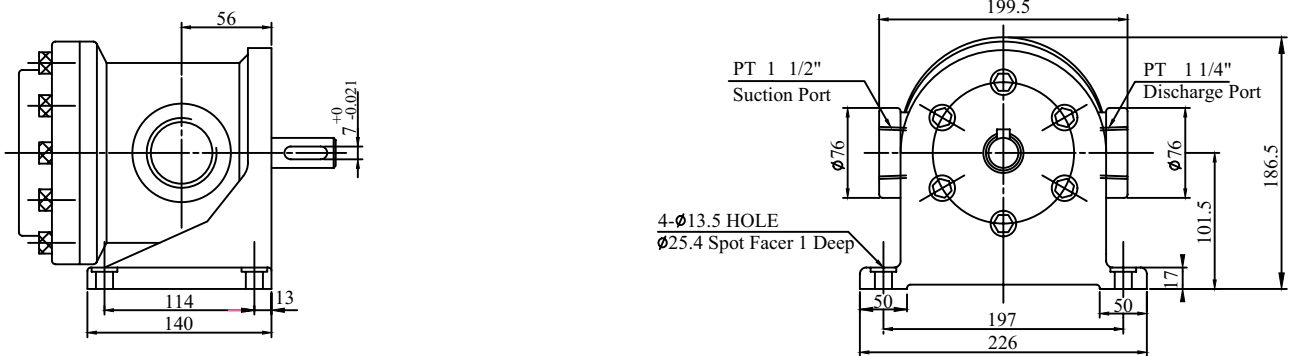


50T+PA (Flange Type)法蘭型

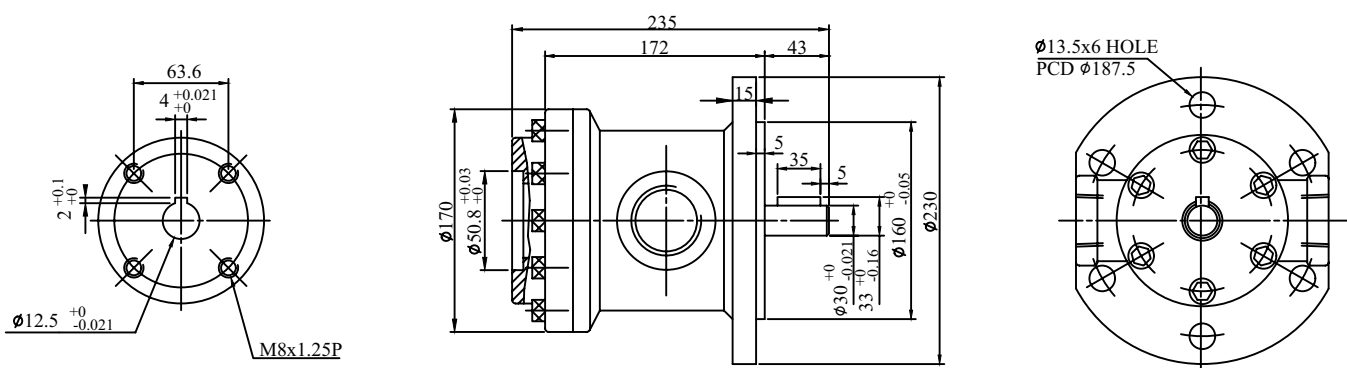
	A	B	C	D	E	F
NO.01-Shaft	∅19.05	36.0	4.76	21.3	32	∅95.02
NO.02-Shaft	∅22.0	46.0	5.0	24.0	30.0	∅96.02



150T+PA (Foot Type)脚座型

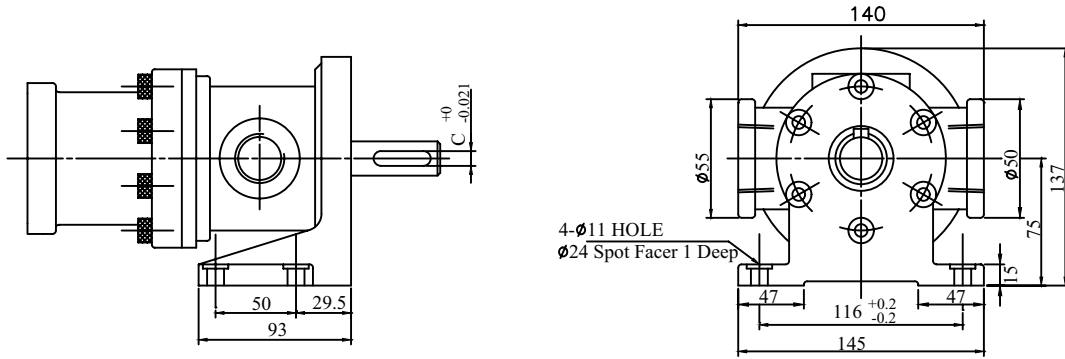


150T+PA (Flange Type)法蘭型



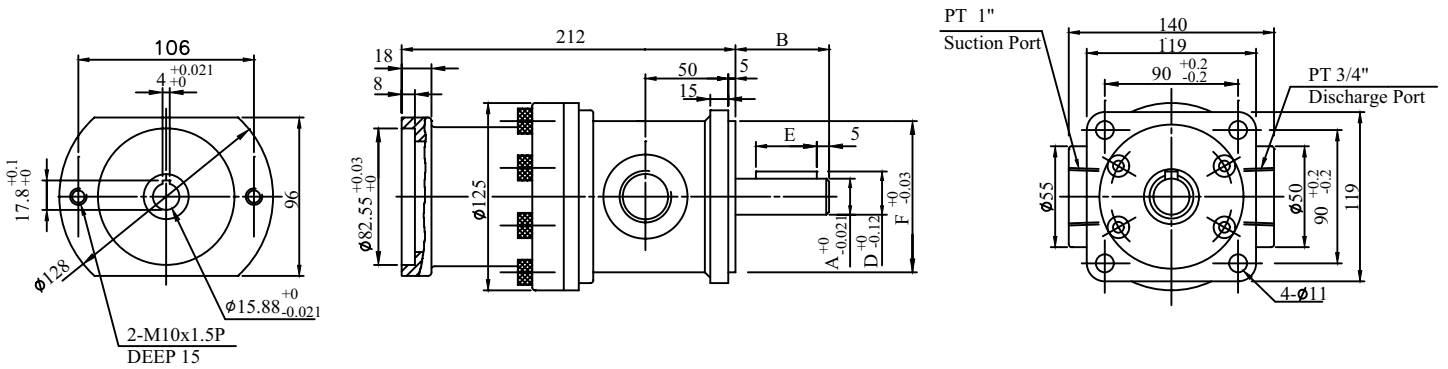
50T+TSP (Foot Type)脚座型

	A	B	C	D	E
NO.01-Shaft	∅19.05	36.0	4.76	21.3	32
NO.02-Shaft	∅22.0	46.0	5.0	24.0	30.0

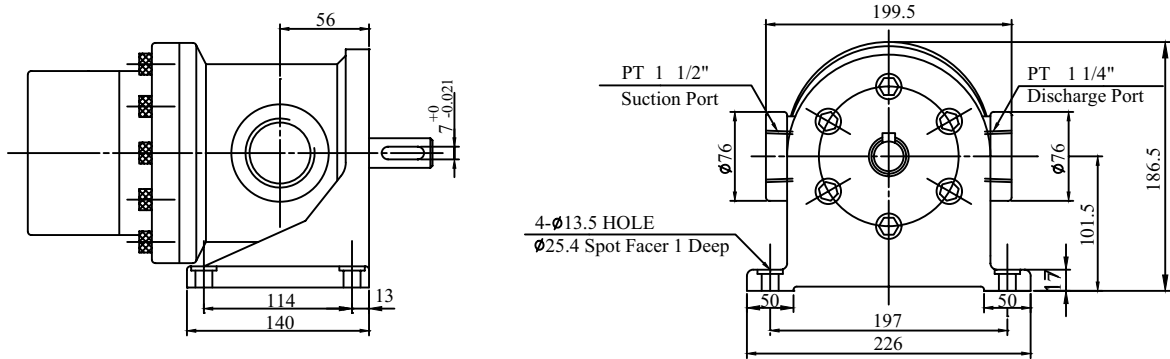


50T+TSP (Flange Type)法蘭型

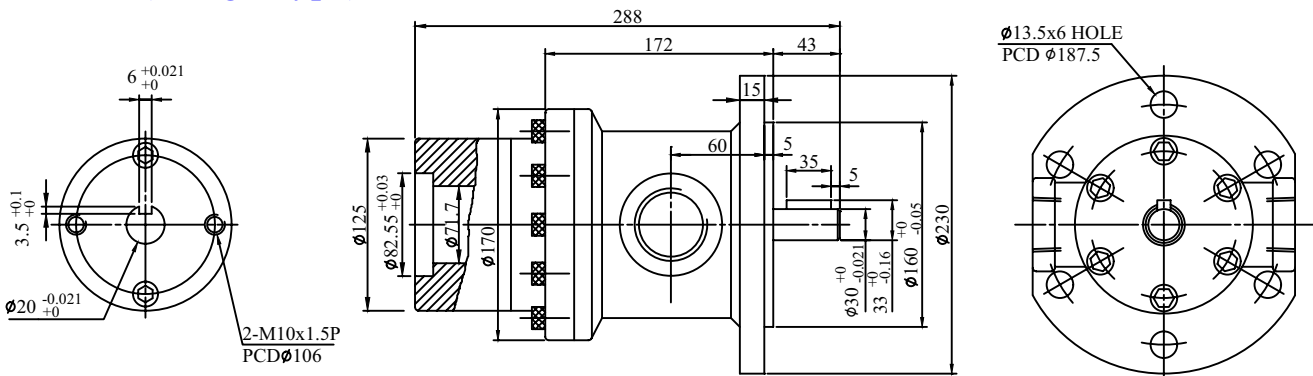
	A	B	C	D	E	F
NO.01-Shaft	∅19.05	36.0	4.76	21.3	32	∅95.02
NO.02-Shaft	∅22.0	46.0	5.0	24.0	30.0	∅96.02



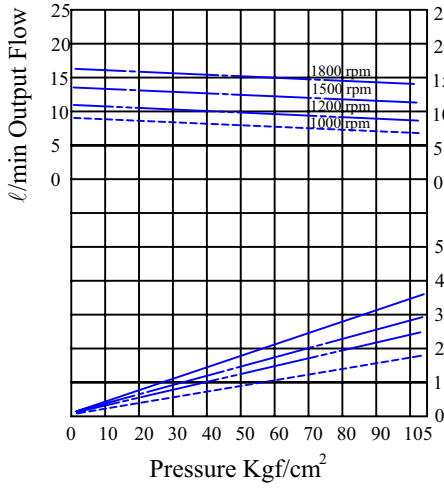
150T+TSP (Foot Type)脚座型



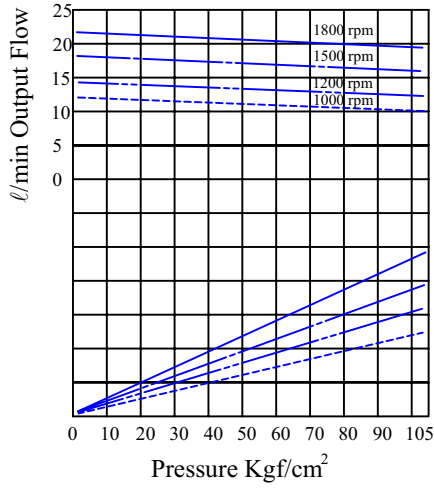
150T+TSP (Flange Type)法蘭型



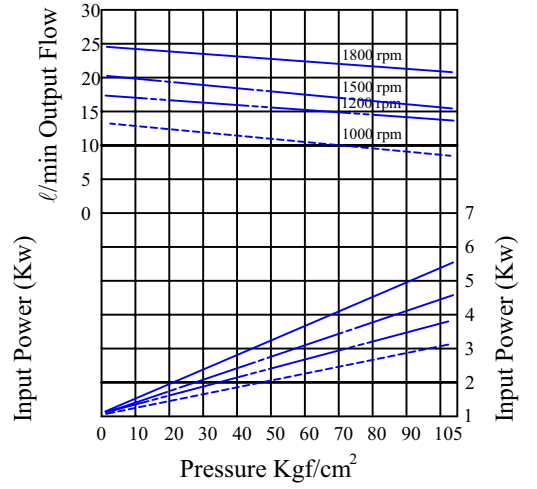
50T-09



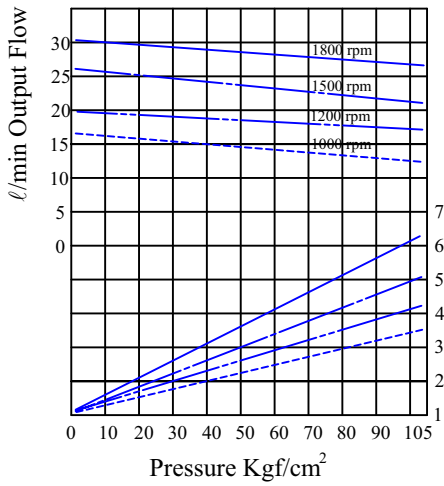
50T-12



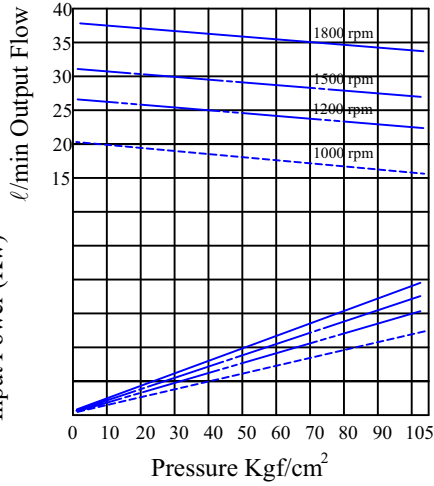
50T-14



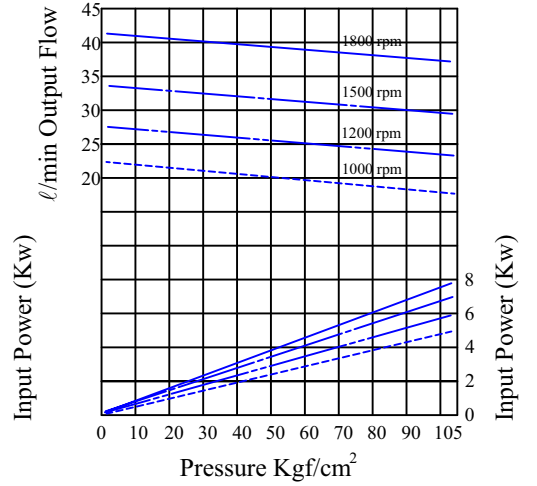
50T-17



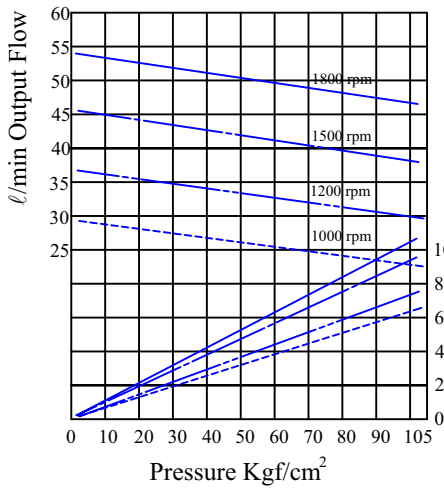
50T-21



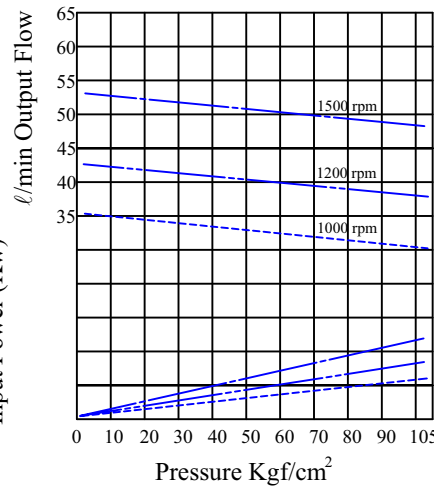
50T-23



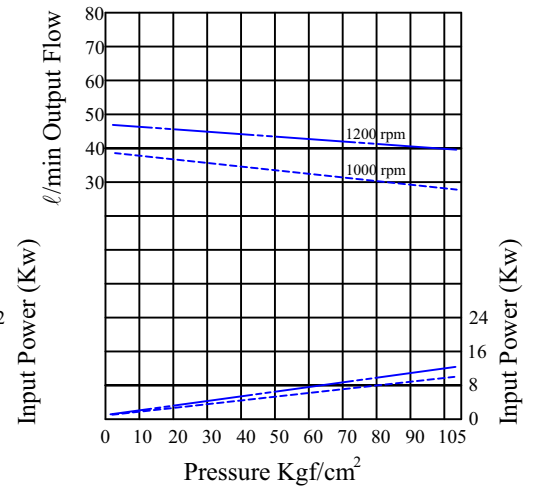
50T-30



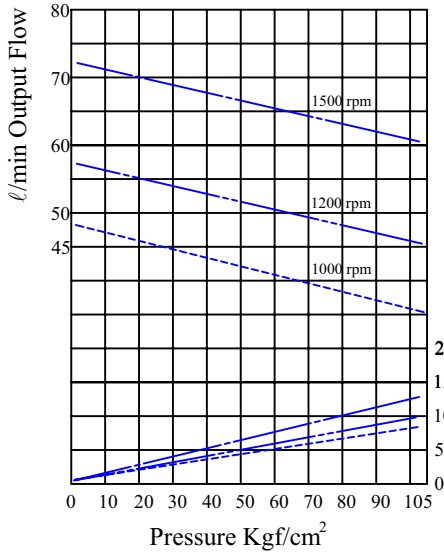
50T-36



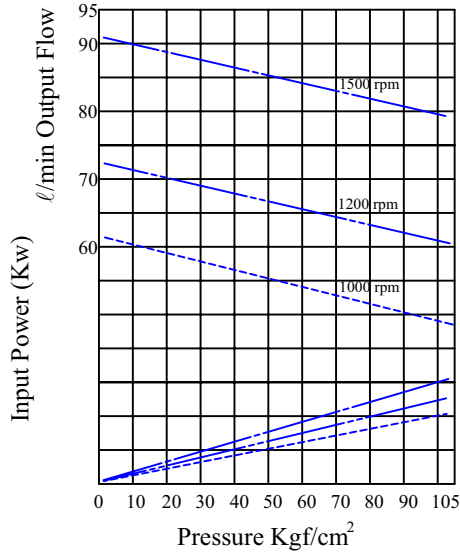
50T-40



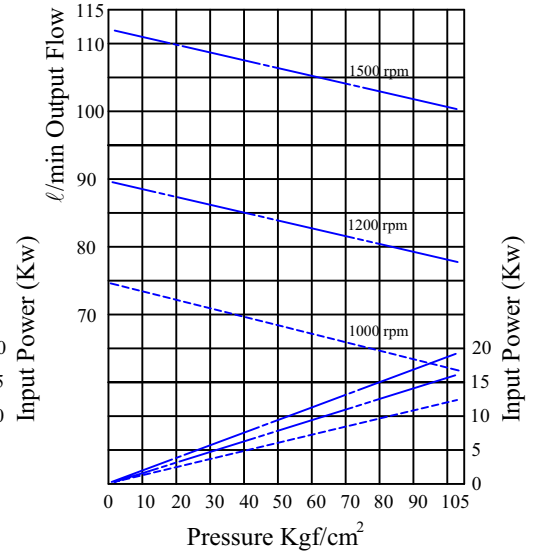
150T-48



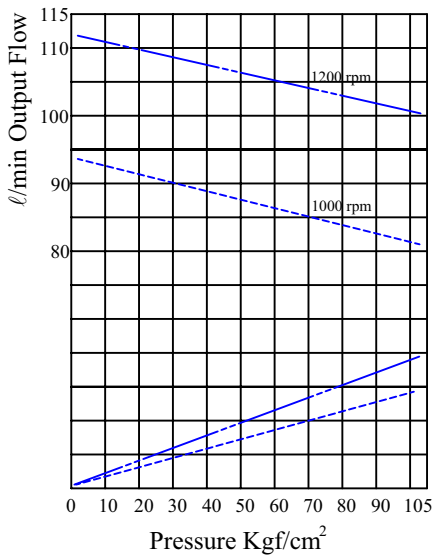
150T-61



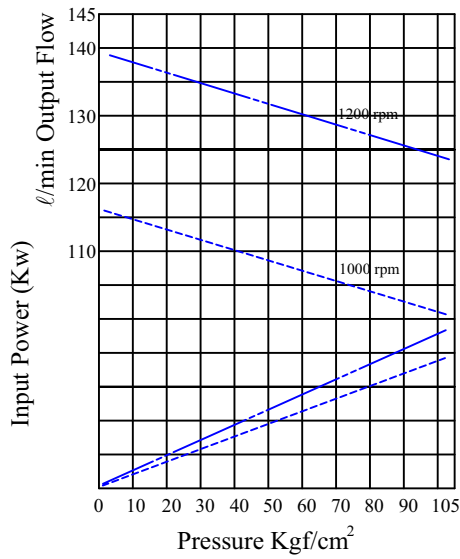
150T-75

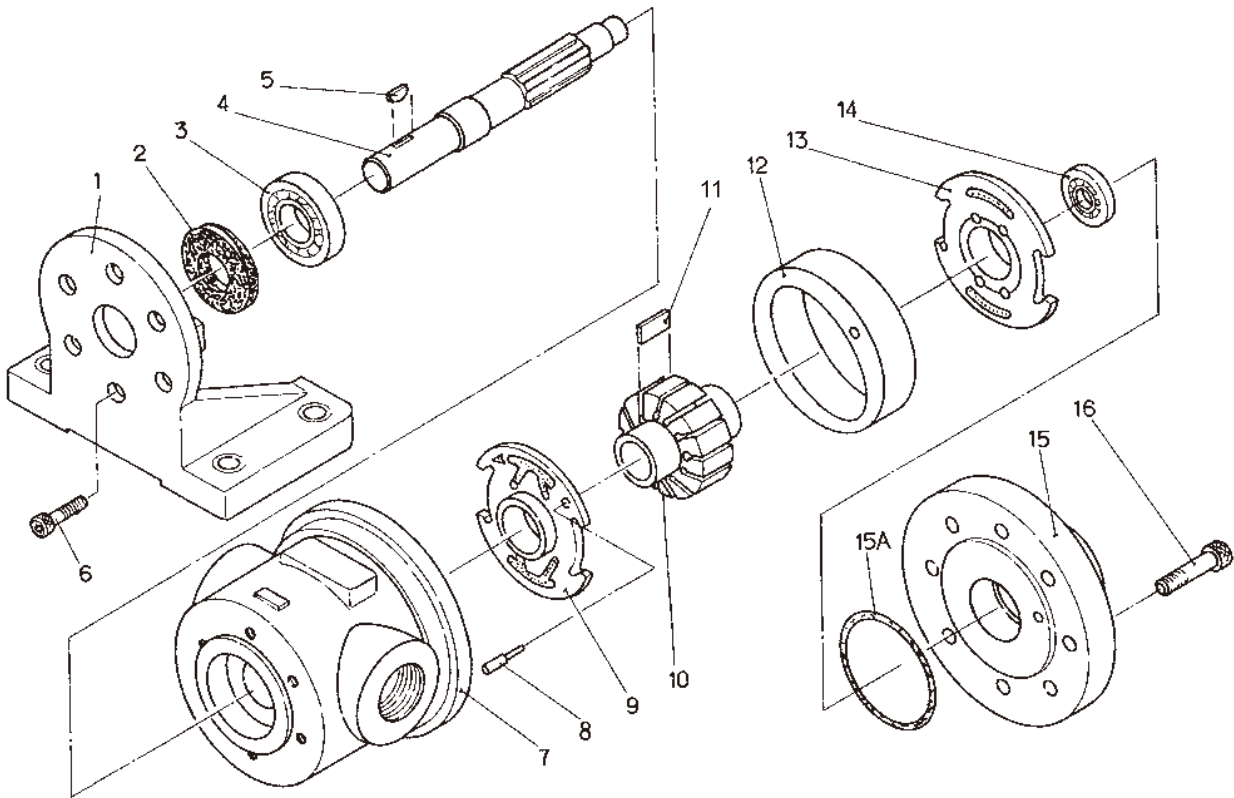


150T-94



150T-116





50T, 150T Single Pump Parts List

50T 系列單泵零件表

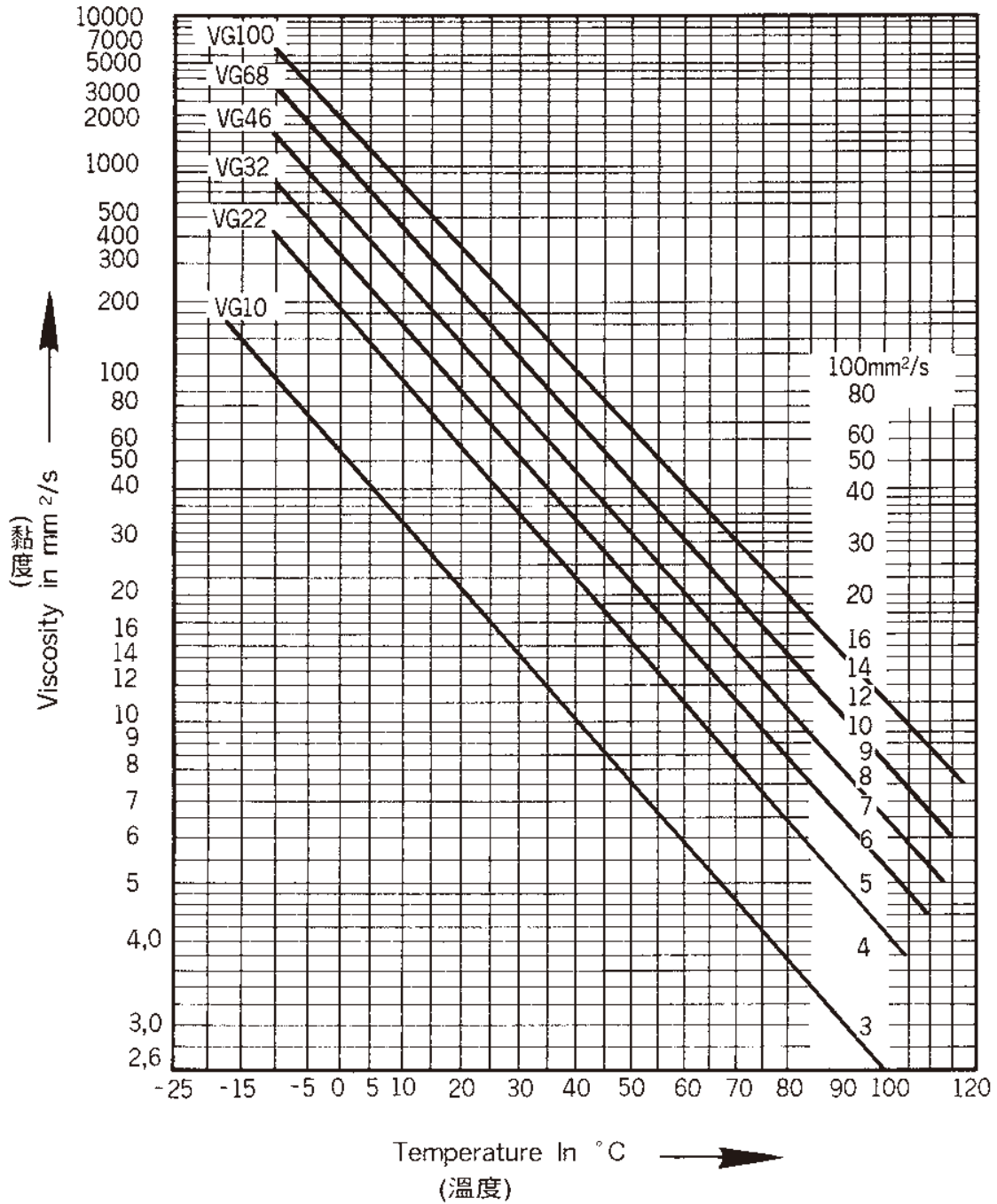
- NO.1 Foot or Flange (腳座/法蘭型)
- NO.2 Seal (油封)
- NO.3 Bearing (軸承)
- NO.4 Shaft (心軸)
- NO.5 Key (雙頭圓鍵)
- NO.6 Screw (腳座用螺絲)
- NO.7 Housing (體)
- NO.8 Lock Pin (定位銷)
- NO.9 Port Plate A (壓力板 A)
- NO.10 Rotor (轉子)
- NO.11 Vanes (葉片)
- NO.12 Cam Ring (軸環)
- NO.13 Port Plate B (壓力板 B)
- NO.14 Bearing (軸承)
- NO.15 Cover (蓋)
- NO.15A O - Ring (O型環)
- NO.16 Cap-Screw (上蓋螺絲)

150T 系列單泵零件表

- NO.1 Foot or Flange (腳座/法蘭型)
- NO.2 Seal (油封)
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- NO.15 Cover (蓋)
- NO.15A O - Ring (O型環)
- NO.16 Cap-Screw (上蓋螺絲)

Viscosity - Temperature Diagram

作動油黏度與溫度關係表



Piping Diameter - Fluid Transmisson - Flow Volume Drawing 使用管徑與流速關係表

