

INDEX

Care in Application (Fixed Displacement Vane Pump)	-----	3
定量泵使用注意事項		

Single Pump (單泵)

HVQ20	Ordering code & Technical data (訂購指引)	-----	4
	Dimensions & Operating characteristics (外型尺寸圖)	-----	5
DVQ20 / DVQ25	Ordering code & Technical data (訂購指引)	-----	6
	Dimensions & Operating characteristics (外型尺寸圖)	-----	7
VQ Series	Ordering code & Technical data (VQ單泵系列訂購指引)	-----	8
	VQ Series Max. Continuous Pressure (VQ 系列工作壓力說明)	-----	9
	VQ Series Typical Performance Characteristics (VQ 系列流量與壓力特性)		10
VQ15 / VQ20	Dimensions & Operating characteristics (外型尺寸圖)	-----	11
VQ25 / SVQ25	Dimensions & Operating characteristics (外型尺寸圖)	-----	12
VQ35 / SVQ35	Dimensions & Operating characteristics (外型尺寸圖)	-----	13
VQ45 / DVQ45	Dimensions & Operating characteristics (外型尺寸圖)	-----	14
SVQ45	Dimensions & Operating characteristics (外型尺寸圖)	-----	15
	VQ Series Single Pump Decomposition Chart (VQ 系列單泵分解圖)	-----	16

Double Pump (雙泵)

VQ Double Series	Ordering code & Technical data (VQ雙泵系列訂購指引)	-----	18
VQ215 / SVQ215	Dimensions & Operating characteristics (外型尺寸圖)	-----	19
VQ225 / SVQ315	Dimensions & Operating characteristics (外型尺寸圖)	-----	20
VQ325 / VQ425	Dimensions & Operating characteristics (外型尺寸圖)	-----	21
DVQ425 / SVQ425	Dimensions & Operating characteristics (外型尺寸圖)	-----	22
VQ435 / DVQ435	Dimensions & Operating characteristics (外型尺寸圖)	-----	23
SVQ435	Dimensions & Operating characteristics (外型尺寸圖)	-----	24
	VQ Series Double Pump Decomposition Chart (VQ 系列雙泵分解圖)	-----	25

Triple Pump (三聯泵)

DVQ2215	Ordering code & Technical data (三聯泵訂購指引)	-----	26
	Dimensions & Operating characteristics (外型尺寸圖)	-----	27
DVQ4325	Ordering code & Technical data (三聯泵訂購指引)	-----	28
	Dimensions & Operating characteristics (外型尺寸圖)	-----	29

Four Layer Pump (四聯泵)

DVQ22115	Ordering code & Technical data (四聯泵訂購指引)	-----	30
	Dimensions & Operating characteristics (外型尺寸圖)	-----	31

HVQ20 訂購指引

Model	Maximum pressure Mpa (kgf/cm ²) 最高工作壓力				
	using antiwear 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					
HVQ20 - 17	357 kgf/cm ²	380 kgf/cm ²	255 kgf/cm ²	280 kgf/cm ²	
HVQ20 - 19					
HVQ20 - 23					

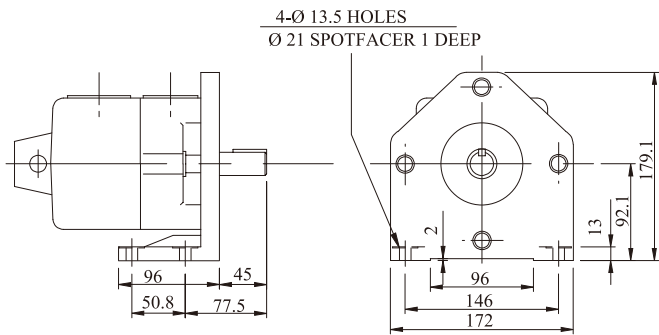
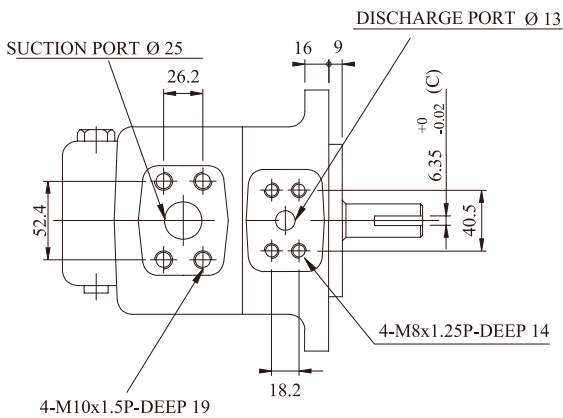
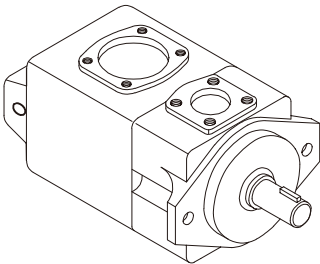
Model	Running Speed r/min(rpm)			
	Max (rpm) 最高轉速			
	using antiwear oil or phosphate ester fluid 抗 磨 作 動 油	using water glycol fluid 水 乙 二 醇 液	using water-in-oil emulsions 油 包 水 乳 化 液	
	Max (rpm)	Min (rpm)		
HVQ20 - 4	3000	800	1800	1800
HVQ20 - 6	2500	800		
HVQ20 - 8				
HVQ20 - 11	2300	800		
HVQ20 - 14	1800	800		
HVQ20 - 17				
HVQ20 - 19				
HVQ20 - 23				

ORDERING CODE

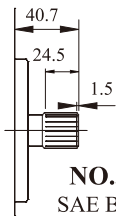
Weight: 18.1 Kg

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	R: Clockwise 順時針	A: Upward (Normal) 向上	A: Upward (Normal) 向上	01:Normal	01:Normal
		L: Foot Type 腳座型	L: Anti- Clockwise 反時針	B: Downward 向下 R: On Right Hand 右邊 L: On Left Hand 左邊	B: Downward 向下 R: On Right Hand 右邊 L: On Left Hand 左邊		02:

HVQ20

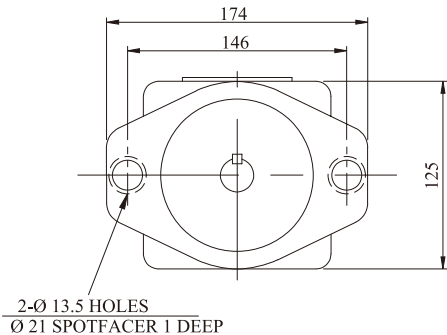
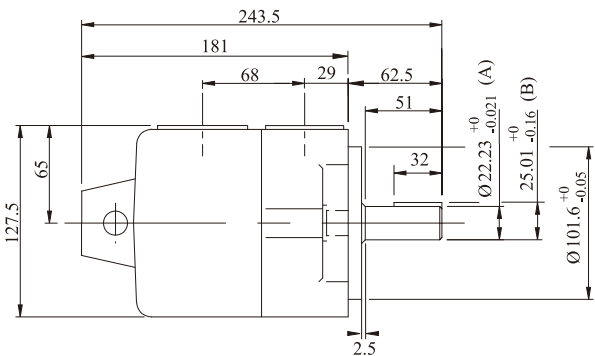


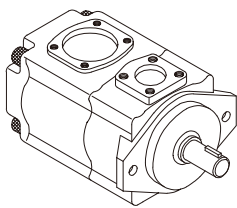
Foot Type (腳座型)



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	Splined Shaft		





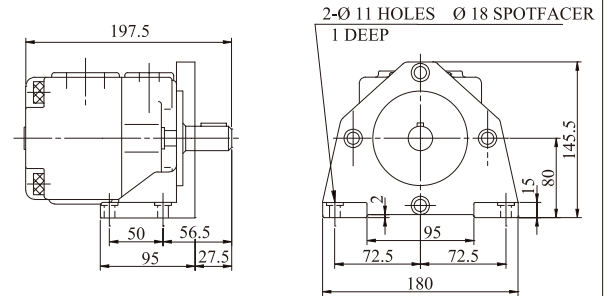
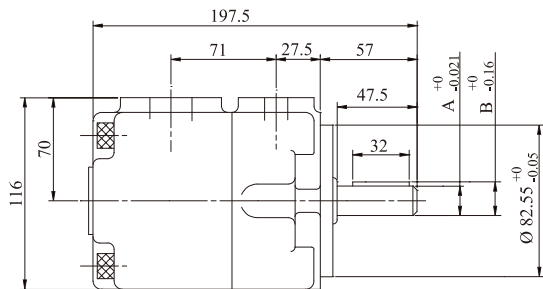
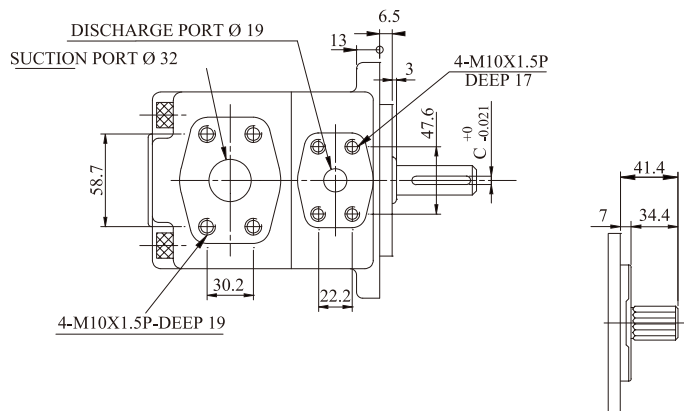
DVQ20
Weight : Flange Type 12.5 Kg
Foot Type 15 Kg

DVQ25
Weight : Flange Type 18 Kg
Foot Type 23 Kg

	-26	-F	-R	A	A	01
Model number 型 號	Displacement c.c/rev 吐出量	MountingType 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		
		1000	1200	1500	1800			Cont.	Peak.
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
DVQ25	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

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

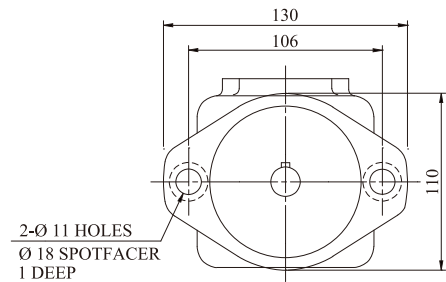


Foot Type (腳座型)

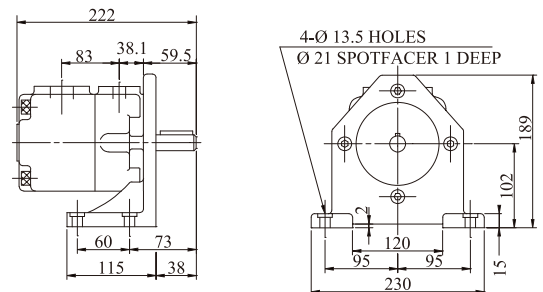
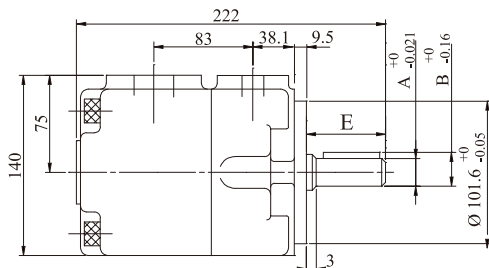
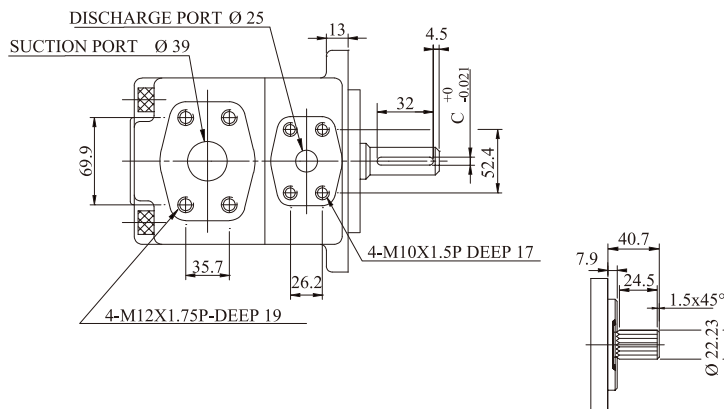
NO.04-Shaft

13-Teeth Spline
7/8" (22.225) DIA
30° pressure angle
Flat root side fit

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



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

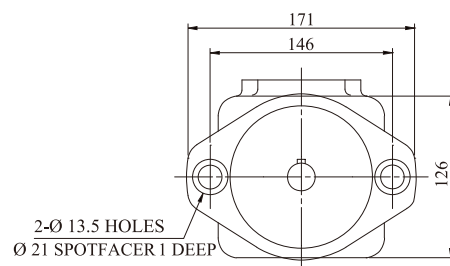


Foot Type (腳座型)

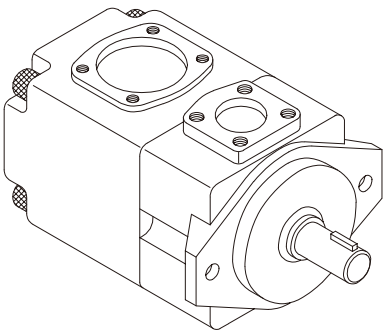
NO.04-Shaft

16/32 d.p.
-13 teeth
30° pressure angle
Flat root side fit.

	A	B	C	E
NO.01-Shaft	Ø 22.23	24.5	6.35	50.5
NO.02-Shaft	Ø 25.4	28.18	6.35	50.5
NO.03-Shaft	Ø 30.0	33.0	7.0	59
NO.04-Shaft	Spline shaft			
NO.W-Shaft	Ø 28.0	30.8	6.35	50.5



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	A: Upward (Normal) 向上	A: Upward (Normal) 向上	-01
VQ20	6,8,11,14,17, 19,23,26,31, 38		R: Clockwise 順時針	B: Downward 向下	B: Downward 向下	-02
VQ25 SVQ25	18,22,26,32, 38,43,47,52, 60,65,75		L: Anti- Clockwise 逆時針	R: On Right Hand 右邊	R: On Right Hand 右邊	-03
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

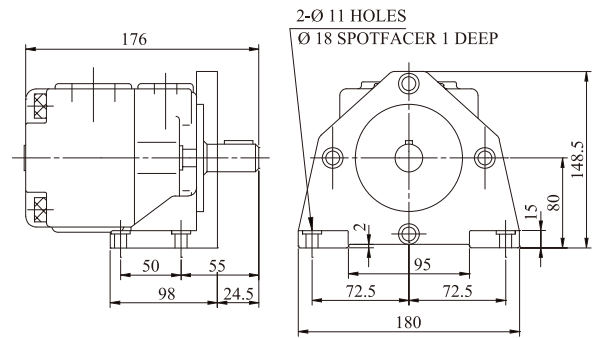
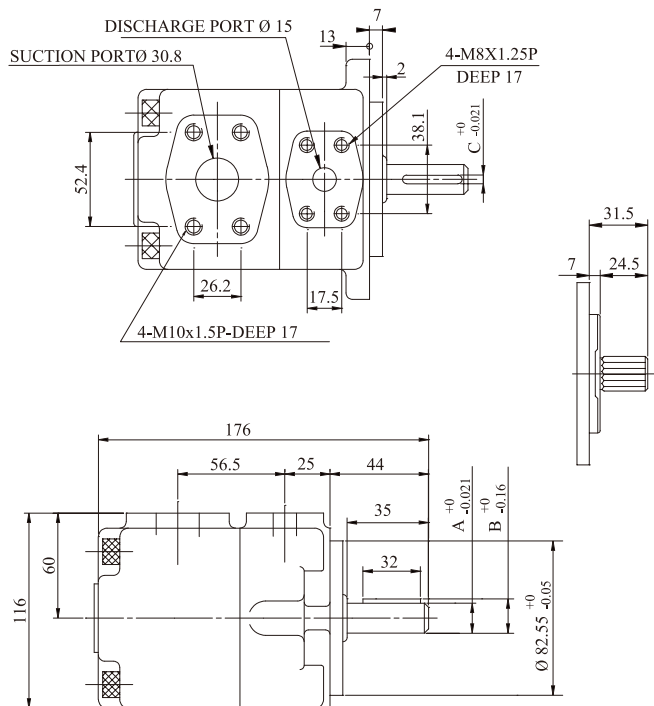
VQ 系列工作壓力說明

Model 型 號	Geomefric displ. (c.c/rev) 吐出量	Using antiwer 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							
	75		1500					
	VQ35 SVQ35	60	175					
66								
7								
82								
88								
94								
108								
116								
125		1500						
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 (Kg/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

VQ Series Single Pump Dimensional Drawing VQ 系列單泵外型尺寸圖

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

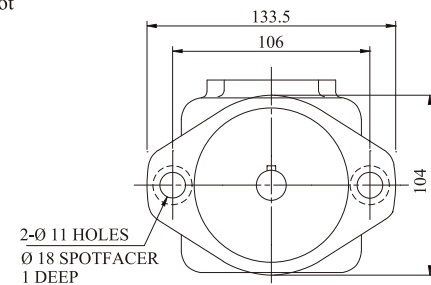


Foot Type (腳座型)

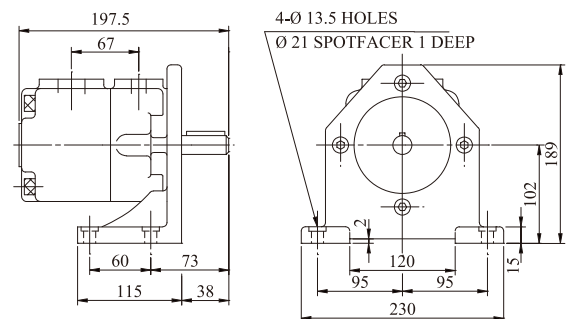
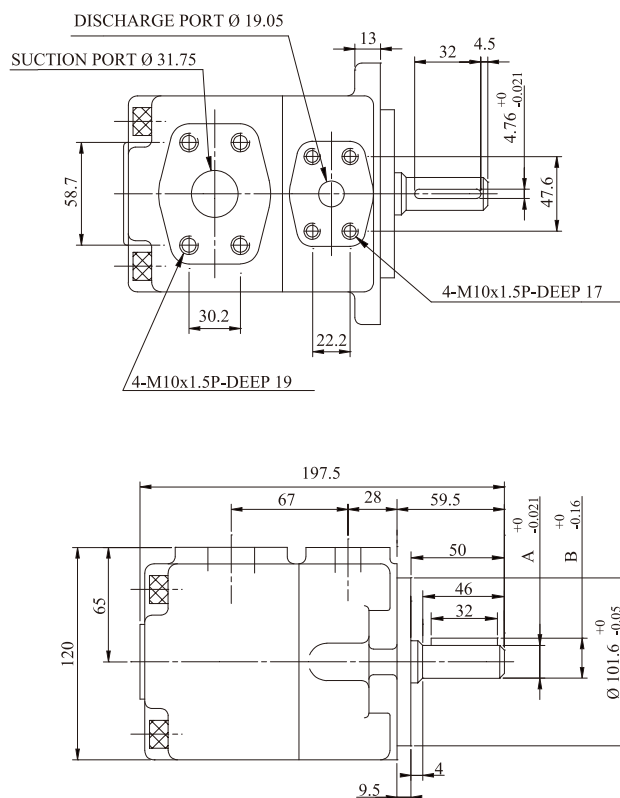
NO.03-Shaft

11-Teeth Spline
3/4" (19.05) DIA
30° pressure
angle Flat root
side fit

	A	B	C
NO.01-Shaft	Ø19.05	21.24	4.76
NO.03-Shaft	Spline shaft		

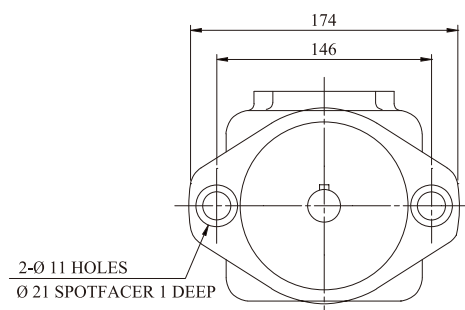


VQ20 Max. Pressure: 230 Kgf/cm² (Peak)
Max. Speed: 1800 rpm

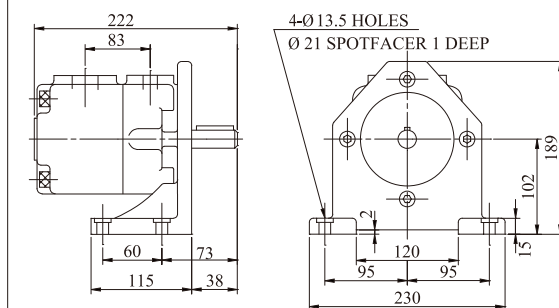
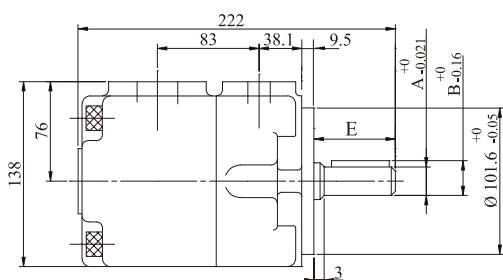
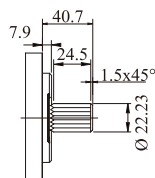
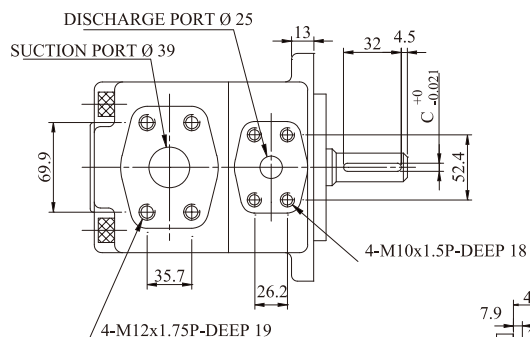


Foot Type (腳座型)

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



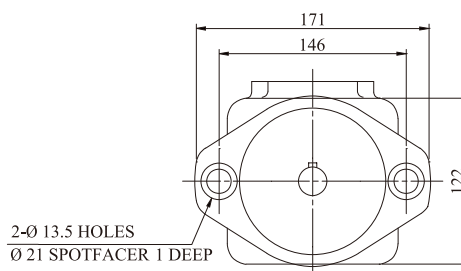
VQ25 Max. Pressure: 230 Kg/cm² (Peak)
Max. Speed: 1800 rpm



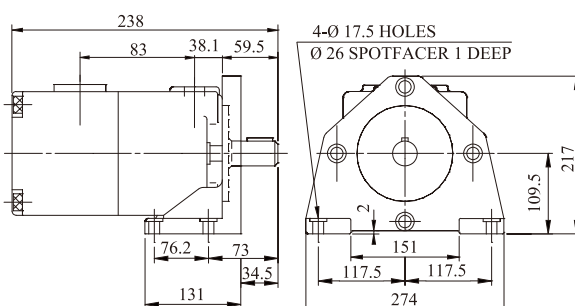
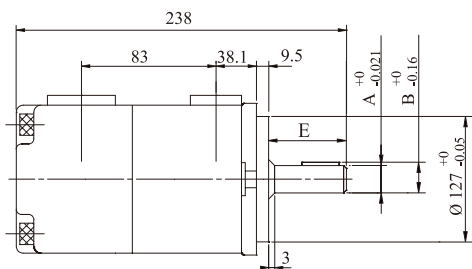
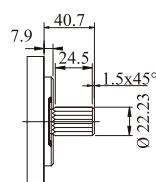
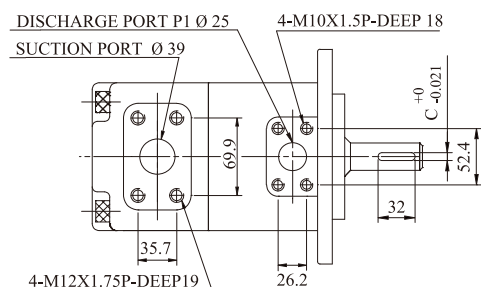
Foot Type (腳座型)

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

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



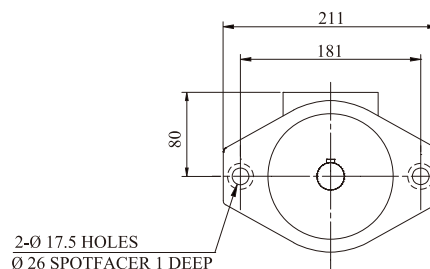
SVQ25 Max. Pressure: 230 Kg/cm² (Peak)
Max. Speed: 1800 rpm



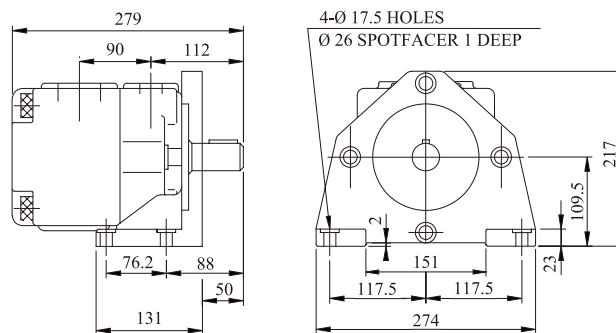
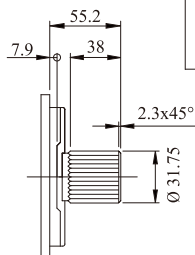
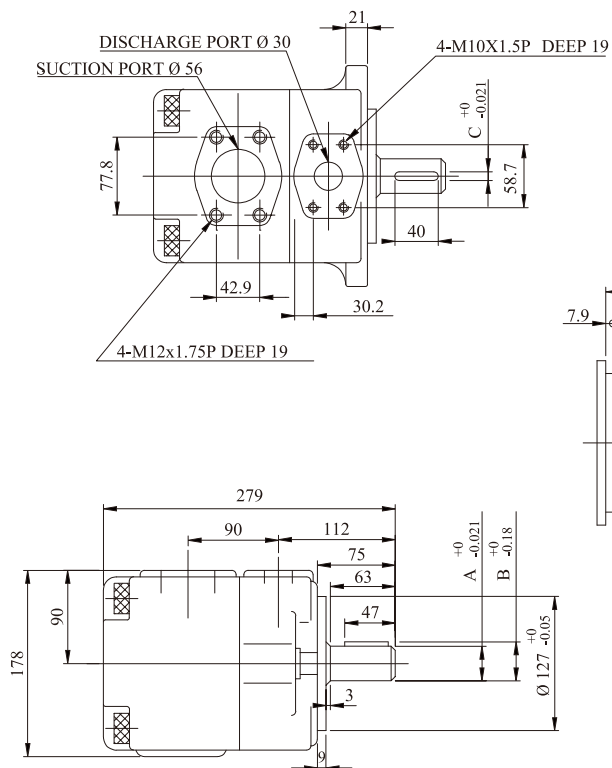
Foot Type (腳座型)

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

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



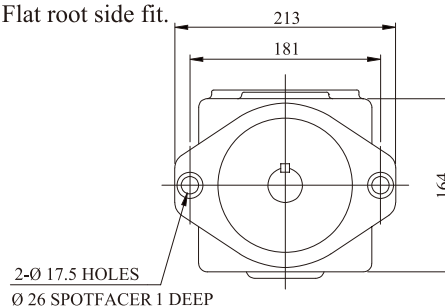
VQ35 Max. Pressure: 210 Kg/cm² (Peak) Max. Speed: 1800 rpm



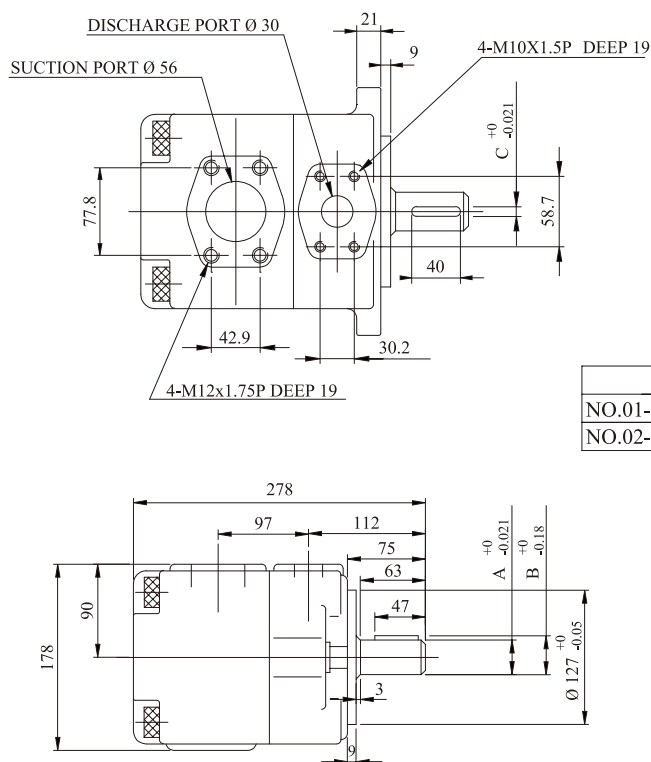
Foot Type (腳座型)

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

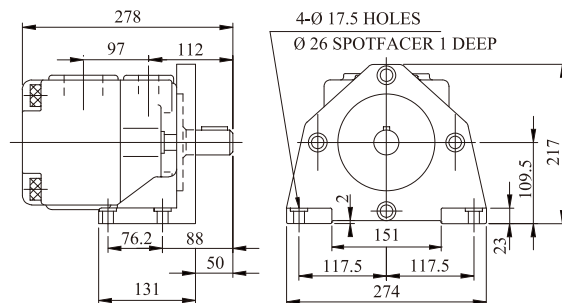
	A	B	C
NO.01-Shaft	Ø 31.75	35.32	7.95
NO.02-Shaft	Ø 34.9	38.56	7.95
NO.03-Shaft	Spline shaft		



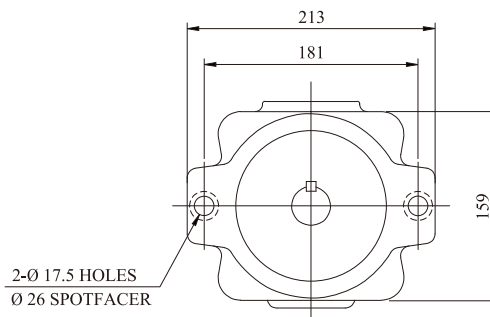
SVQ35 Max. Pressure: 210 Kg/cm² (Peak) Max. Speed: 1800 rpm



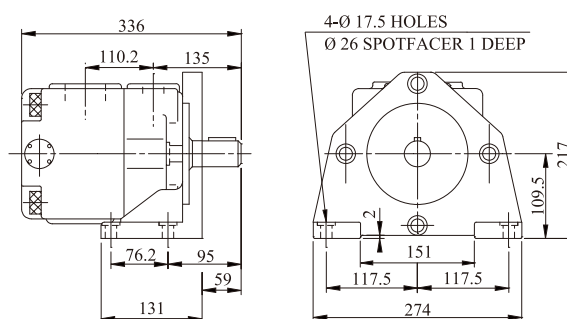
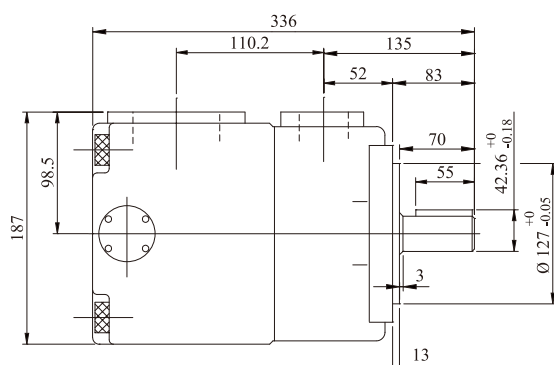
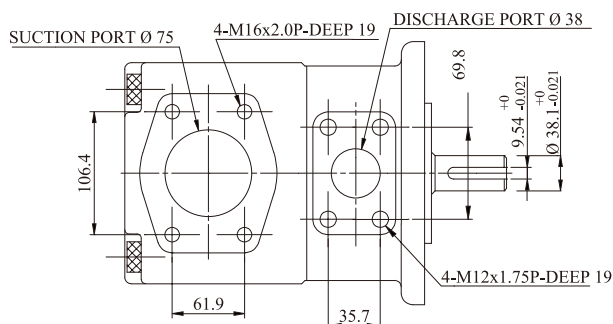
	A	B	C
NO.01-Shaft	Ø 31.75	35.32	7.95
NO.02-Shaft	Ø 34.9	38.56	7.95



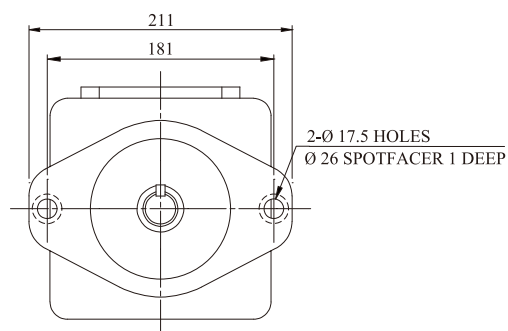
Foot Type (腳座型)



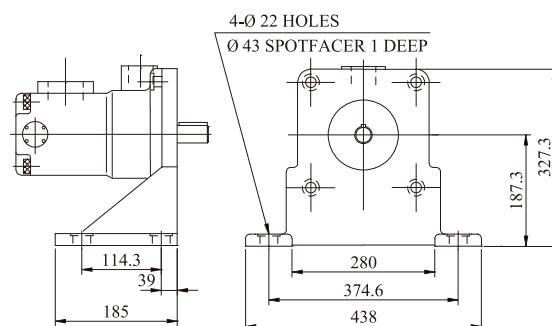
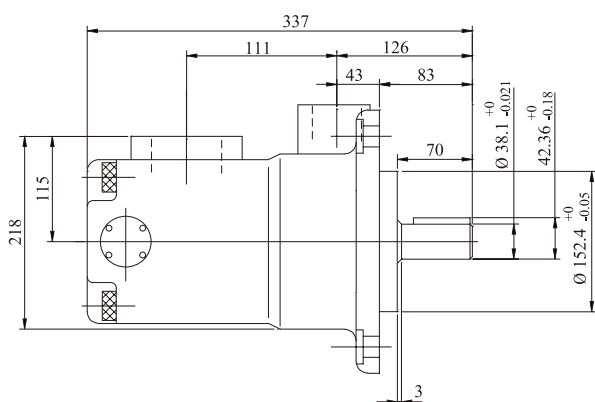
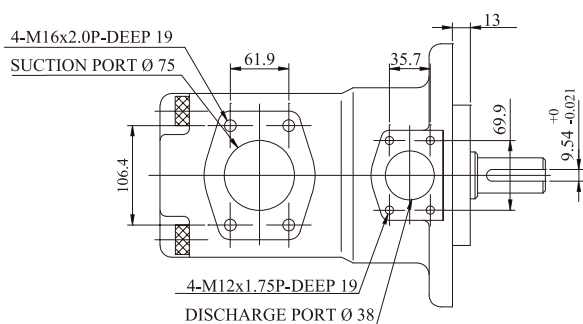
VQ45 Max. Pressure: 175 Kg/cm² (Peak)
Max. Speed: 1800 rpm



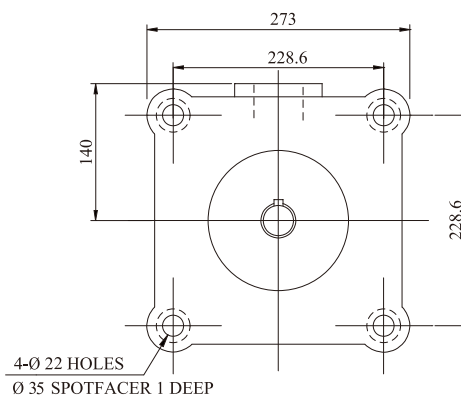
Foot Type (腳座型)



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

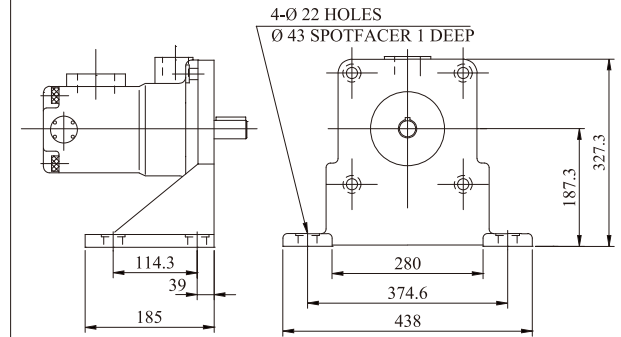
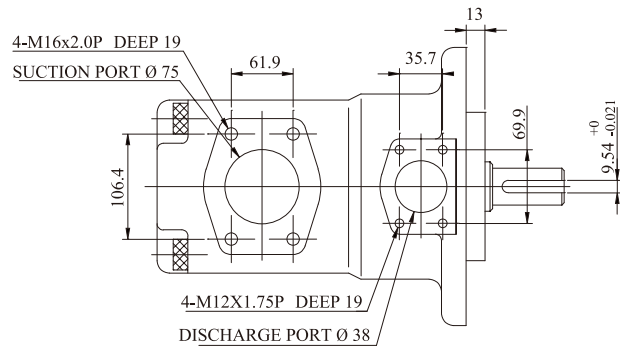


Foot Type (腳座型)

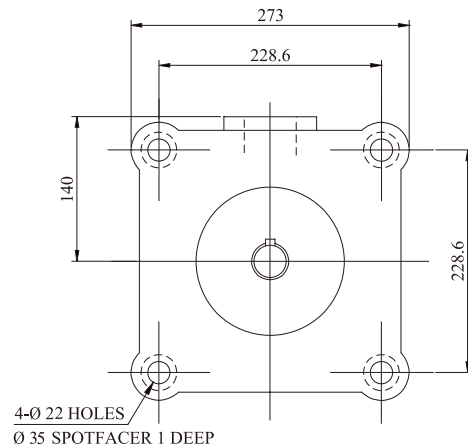
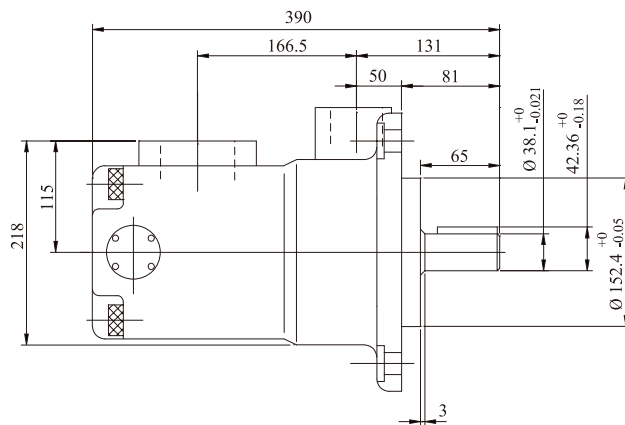


SVQ45

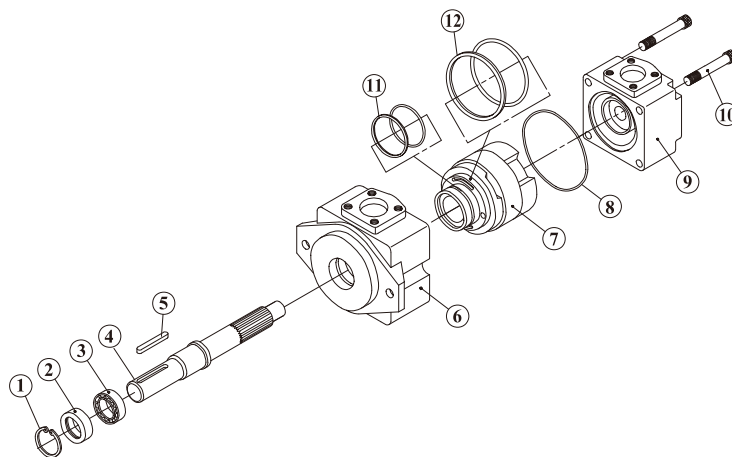
Max. Pressure: 175 Kg/cm² (Peak)
Max. Speed: 1800 rpm



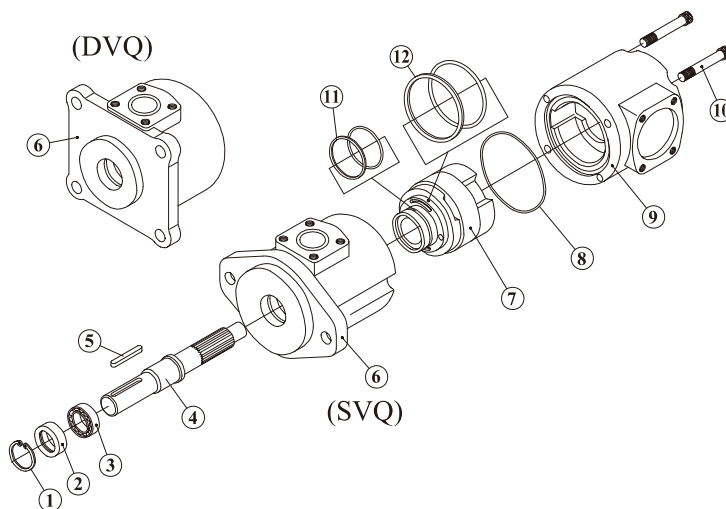
Foot Type (腳座型)



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.3 Bearing (軸承) | 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.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) | |