

VQ Series vane Pumps

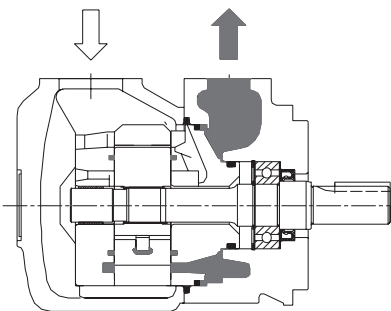
Product Introduction

The high-pressure and high-performance Intra-vane pumps for Mobile Equipment.

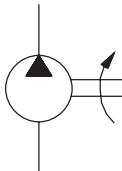
Features:

- 1. To adopt balanced hydraulic for the struction of Intra-vane and ten-Vane design,higher pressure,top to 21MPa.
- 2. To adopt floating structure for side plate,it will do a compensation for end-face clearance by automatic,so that even the pump under high pressure it can maintain a high volumetric efficiency.
- 3. The side plate is made of dual-metal material,it improved the seizure resistance,and so that the life of pump will be longer

VQ Series-single pumps



Hydraulic Sign



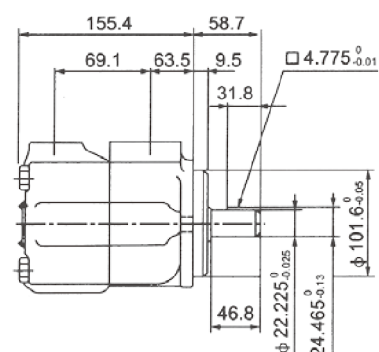
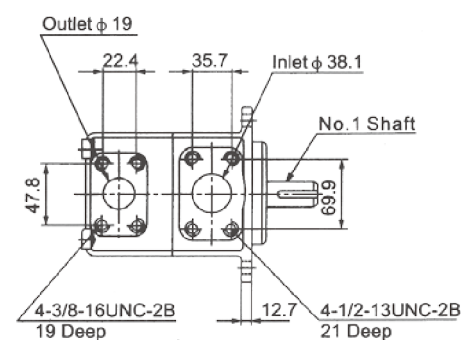
(F3-)	25VQ	19	A	(F)	-1	A	30	R
Note	Series	▲Flow code	Port connections	Installation type	shaft type	Outlet Positions	Design number	Rotation
No-marking Petroleum series oil emulsification fluid water glycol-fluid F3: phosphate ester fluid	20VQ	2、 3、 4、 5、 6、 7、 8、 9、 10、 11、 12、 14	A-SAE 4-bolt flange	No-marking Flange Mounting F-Foot Mounion	1-Str key 151-Spline	(Viewed from cover end of pump) A- Opposite inlet port B- 90° CCW from inlet C- Inline with inlet D- 90° CW from inlet	30	(Viewes from shaft end of pump) R- right hand for clockwise L-left hand for counter-clockwise
	25VQ	10、 12、 14、 15、 17、 19、 21、 25			1- Str key 86- HD str key 11- Spline		20	
	35VQ	21、 25、 30、 32、 35、 38、 45						
	45VQ	42、 45、 50、 57、 60、 66、 75						

USgpm Flow (USgpm) at 1200r/min and 0.69MPa

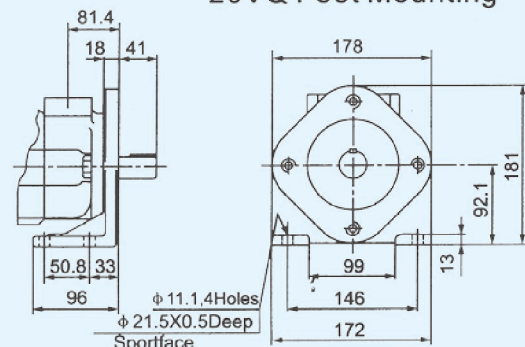
Specifications

Series	Flow code (USgpm)	Grometric displacement mL/r (in³/r)	Max. operating pressure (Mpa)	Max.speed (r/min)	Min.speed (r/min)
20VQ	2	7(0.43)	21	2700	600
	3	10(0.61)			
	4	13(0.79)			
	5	16.5(1.01)			
	6	19(1.16)			
	7	22(1.40)			
	8	27(1.67)			
	9	30(1.85)			
	10	31.5(1.92)			
	11	35(2.14)			
	12	40(2.44)	16		
	14	45(2.78)	14		
25VQ	10	32(1.95)	21	2700	600
	12	38(2.32)		2500	
	14	43.5(2.65)			
	15	47(2.89)			
	17	54(3.30)			
	19	60(3.66)			
	21	67(4.13)			
	25	79.2(4.83)			
35VQ	21	67(4.13)	21	2500	600
	25	81(4.94)		2400	
	30	95(5.80)			
	32	101(6.16)			
	35	109(6.65)			
	38	119(7.26)			
	45	143(8.72)			
45VQ	42	134(8.17)	17.5	2400	600
	45	143(8.72)		2200	
	50	159(9.70)			
	57	181(11.05)			
	60	189(11.53)			
	66	210(12.81)			
	75	237(14.46)			

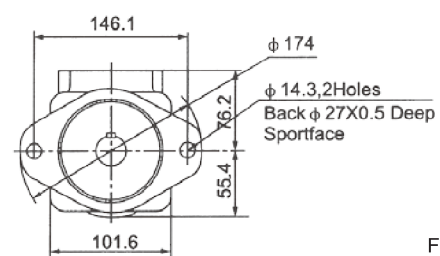
20VQ Flange Mounting



20VQ Foot Mounting

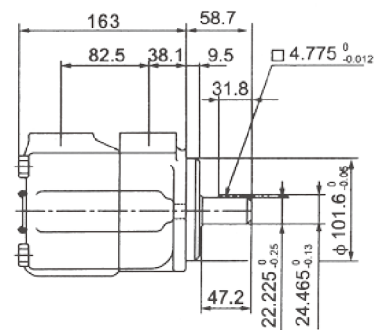
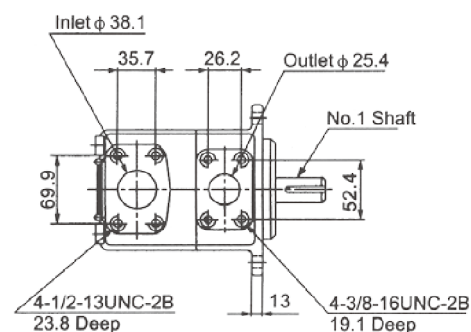


For other dimensions, refer to "Flange Mounting" type.

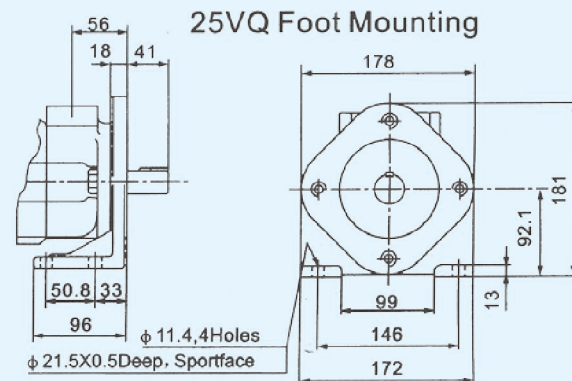


For other shaft dimensions, refer to page 68

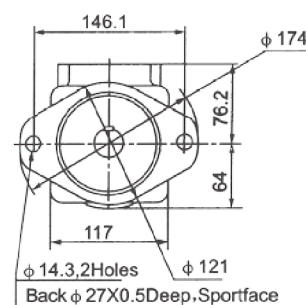
25VQ Flange Mounting



25VQ Foot Mounting

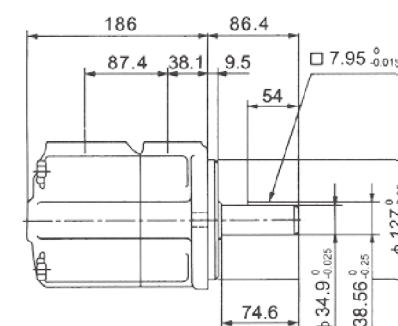
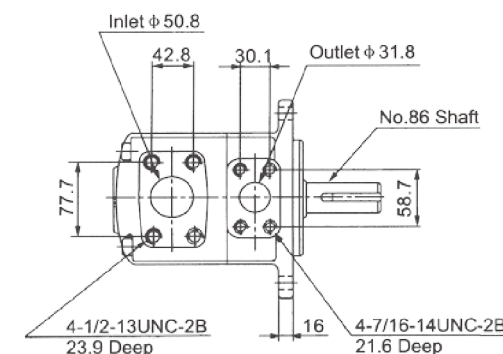


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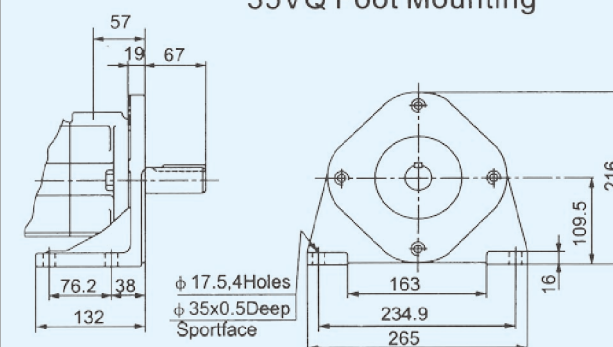


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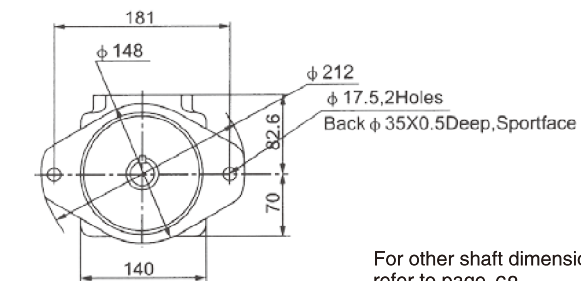
35VQ Flange Mounting



35VQ Foot Mounting

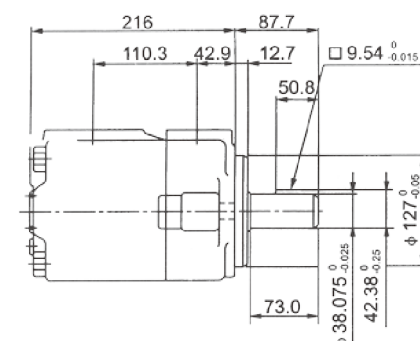
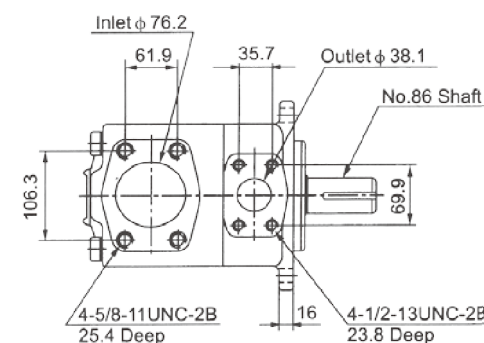


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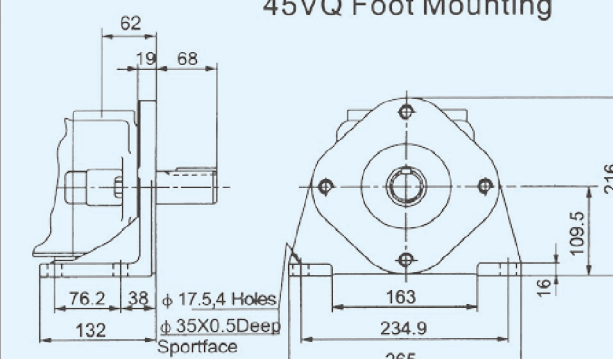


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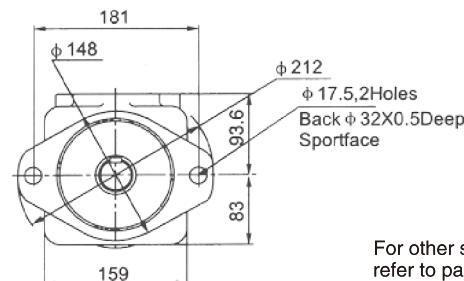
45VQ Flange Mounting



45VQ Foot Mounting



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For other shaft dimensions, refer to page 68