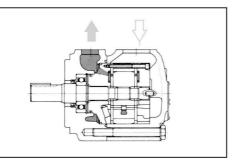
VQ Series Vane Pumps

—High Performance Intravane Pumps For Mobile Applications

VQ Series Single Pumps







Model Code

(F3-)	25VQ	21	Α	(F)	-1	Α	30	L
Prefix	Series	▲ Code	Port Connections	Mounting	Shafts	Outlet Position	Design	Rotation
Omit-Using antiwear oil	20VQ	2,3,4,5,6,7,8,9, 10,11,12,14		Omit- Flange	1-Str.key 151-Spline	(Viewed from cover	30	(View from shaft end of
water glycol fluid	25VQ	10,12,14,15,17, 19,21	A-SAE	mounting		A-Opposite inlet port		pump) L-Left hand for
F3-	35VQ	21,25,30,32,35,38	4-bolt flange	F-Foot mounting	86-HD str.key	B-90° CCW from inlet C-Inline with inlet D-90° CW from inlet	20	counterclock- wise
Phosphate ester fluid	45VQ	42,45,50,57,60, 66,75			11-Spline			Omit-Right hand for clock wise

[▲] Rated capacity (US gpm) at 1200 r/min and 0.7 MPa (100psi).

Specification

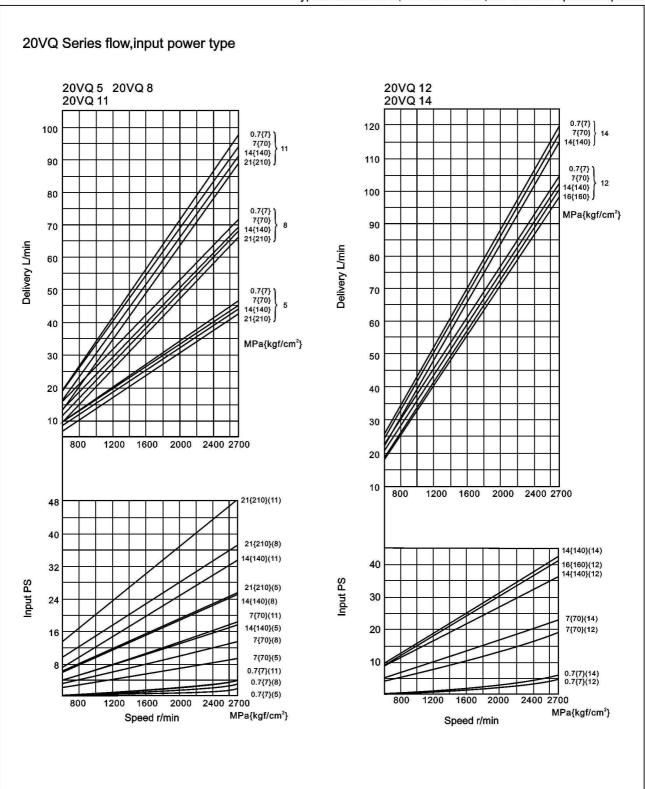
Model	Code	Displ mL/r	Max.Speed r/min	Max. Pressure MPa	Typical del. L/min ▲max.speed & pressure	Typical input kw ▲ max.speed & pressure	Weight
20VQ	2	7	2700	21	16.4	7.2	
	3	11.7	2700	21	24.4	10.8	
	4	15	2700	21	32.7	14.4	
	-5	18	2700	21	42.3	17.9	
	6	19	2700	21	50.6	21.5	11.8
	7	22	2700	21	58.8	23.7	
2070	8	27	2700	21	56.4	25.1	11.0
	9	30	2700	21	73.4	26.0	
	10	31.5	2700	21	81.7	26.8	
	11	36	2700	21	88.5	27.7	
	12	40	2700	16	96.5	28.4	
	14	45	2700	14	115.4	29.1	
	10	32.5	2700	21	81.4	35.2	14.5
	12	38.3	2700	21	88.5	41.0	
	14	43.3	2700	21	103.8	46.6	
25VQ	15	47.3	2500	21	109.4	48.1	
2000	17	52.5	2500	21	119.2	21.8	
	19	60	2500	21	133.5	55.2	
	21	65.0	2500	21	146.2	61.9	
	21	64.0	2500	21	145.5	63.7	22.7
	25	79.2	2500	21	173.1	75.3	
35VQ	30	95.0	2500	21	211.5	87.7	
35 V Q	32	101	2500	21	220.2	92.2	
	35	109	2400	21	230.8	98.5	
	38	118	2400	21	250	104.4	
45VQ	42	134	2400	17.5	255.8	91.4	
	45	147	2200	17.5	271.2	99.8	
	50	156	2200	17.5	303.8	105.2	
	57	180	2200	17.5	343.7	120.2	34.1
	60	189	2200	17.5	369.2	126.8	
	66	208	2200	17.5	408.7	142.4	
	75	237	2200	14	460	120.2	

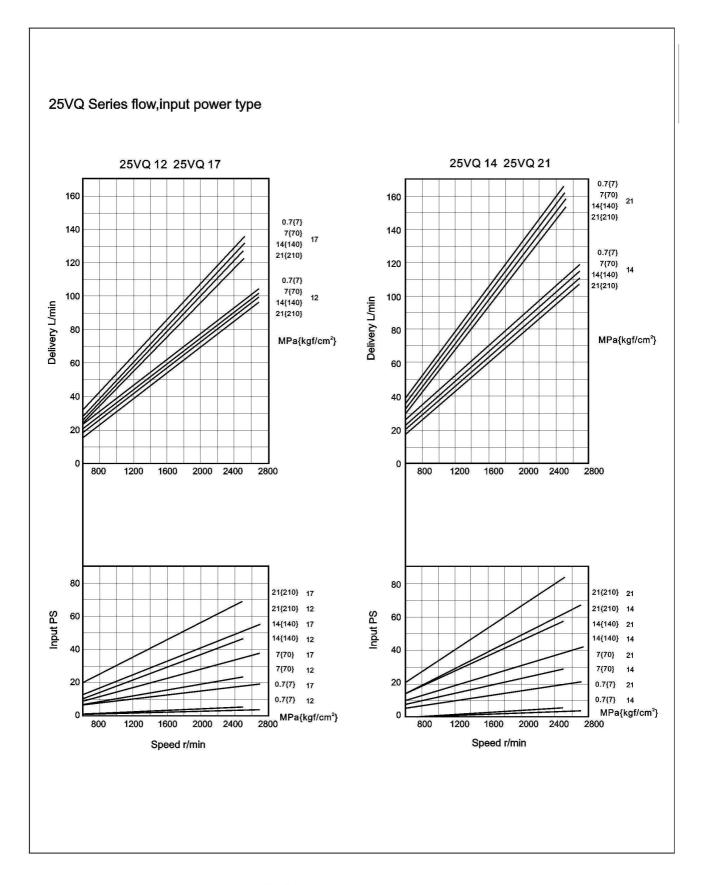
Performance constants:SAE 10W fluid ▲82°C(180°F), and pump inlet ▲0 PSIG(14.7PSIA)

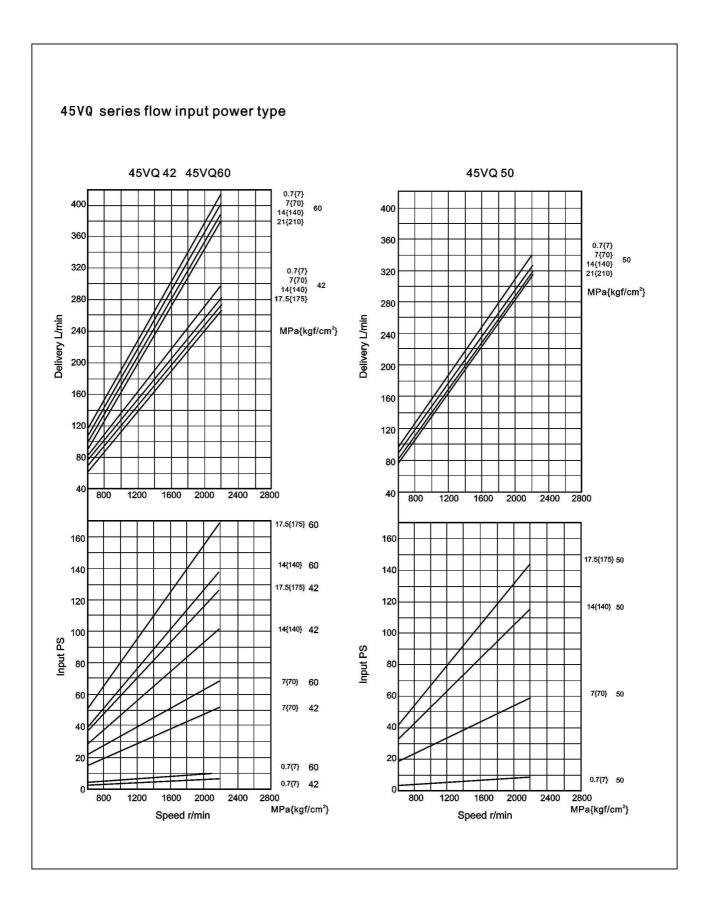
Note:Outlet pressure must always be higher than inlet pressure.

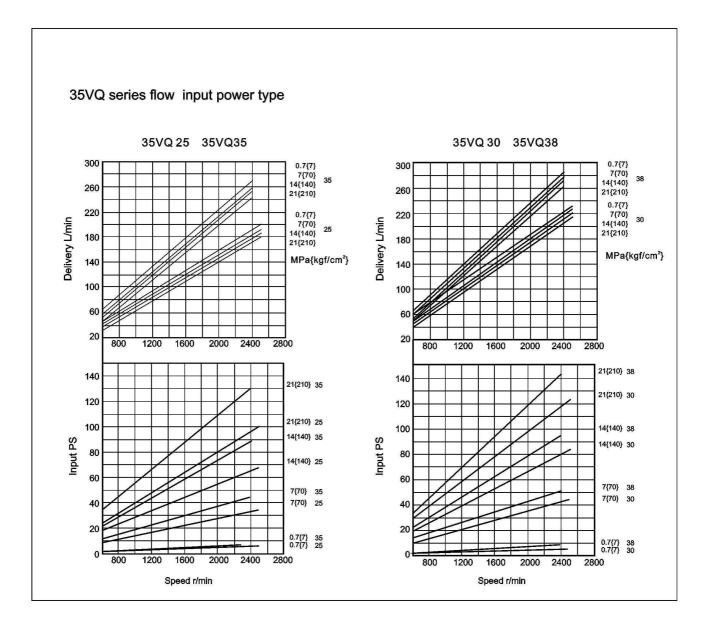
Performance Characteristics

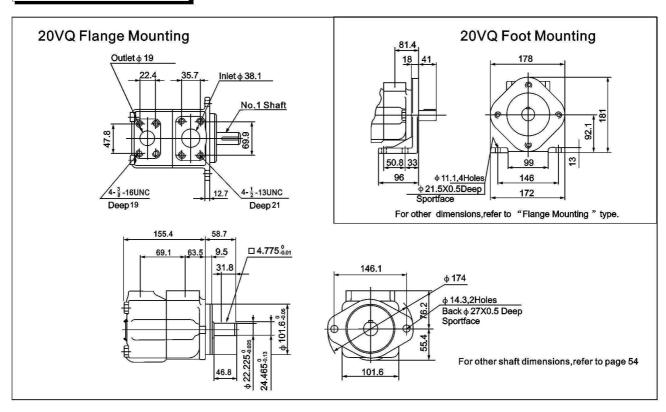
Typical flows at 50℃,10W oil at 26cSt,0MPa inlet at specified speeds.

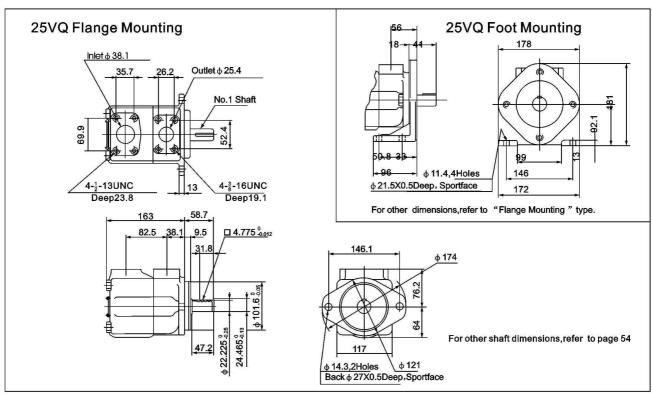


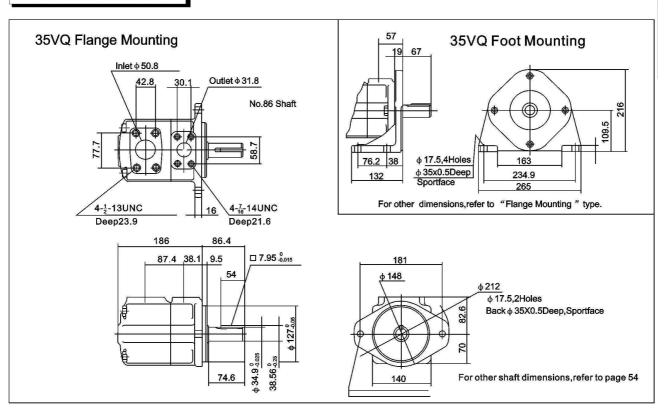


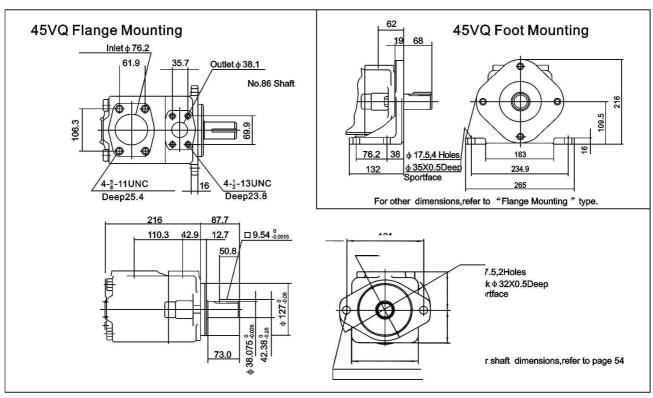






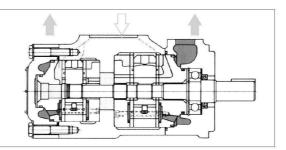






■ VQSeries Double Pumps







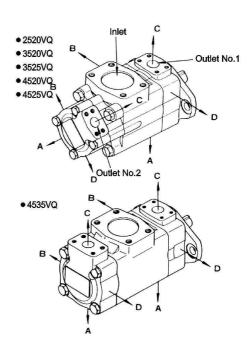
Model Code

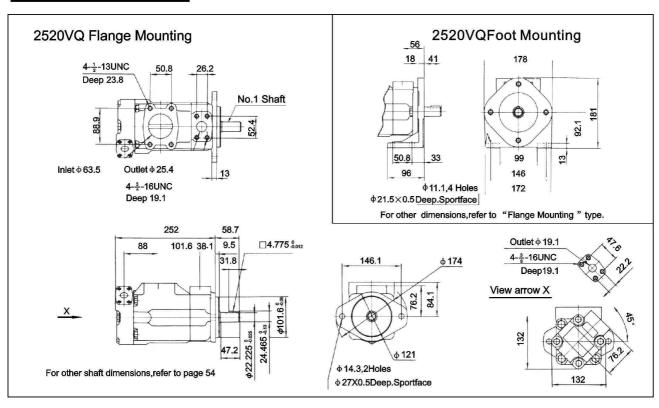
(F3-)	****VQ	**	Α	**	(F)	-*	*	20	*
Prefix	Series	▲ Code Shaft End Pump	Port Connections	▲ Code Cover End Pump	Mounting	Shaft	Port Connections	Design	Rotation
	2520VQ	10,12,14,15,17, 19,21		2,3,4,5,6,7,8,9, 10,11,12,14					(Viewed from shaft end pump)
Omit-Using antiwear oil	3525VQ	21,25,30,32,35, 38		10,12,14,15,17, 19,21	Omit-Flang mounting	1-Str.key			Omit-
water glycol fluid	4525VQ	42,45,50,57,60, 66,75	A-SAE	10,12,14,15,17, 19,21	moditing	86-HD Str.key	See below	20	Right hand for clockwise
	3520VQ	21,25,30,32,35,38	4-bolt flange	2,3,4,5,6,7,8,9, 10,11,12,14	F-Foot mounting	11-Spline			L-Left hand for counterclockwise
F3-Phosphate ester fluid	4520VQ	42,45,50,57,60, 66,75		2,3,4,5,6,7,8,9, 10,11,12,14					
	4535VQ	42,45,50,57,60, 66,75		21,25,30,32,35, 38					

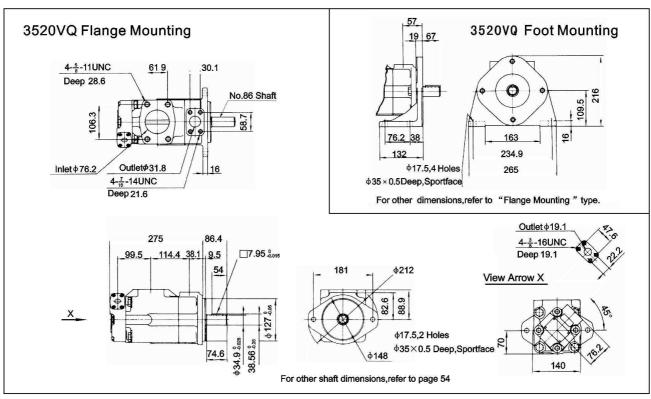
A Rate capacity(USgpm) at 1200rpm,0.69MPa(100 psl).
Note:For options other than listed in the model code ,i,e,shaft,ports,displacements and mounting,contact us.

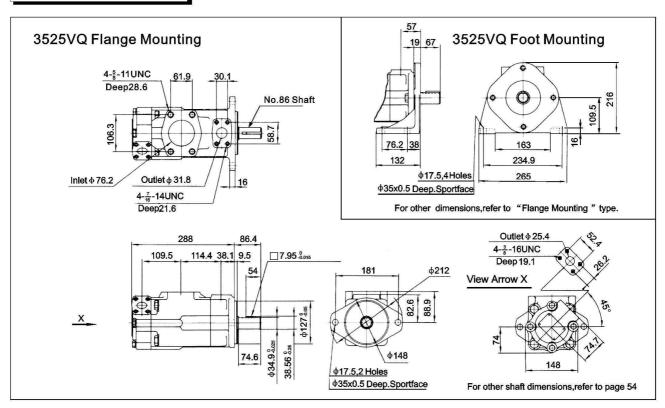
Port Orientation Table (Viewed from cover pump)

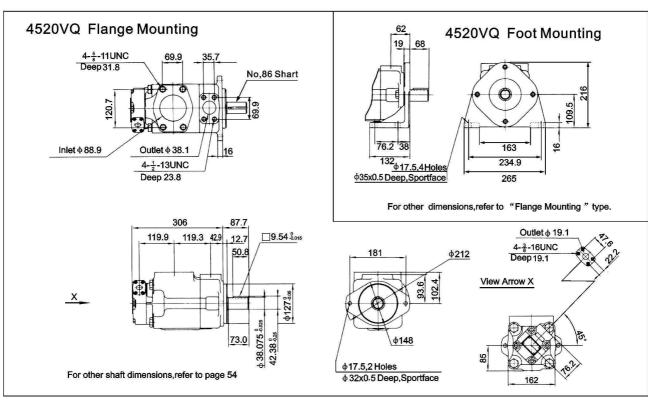
Port Orienlati	ion	All series except 4535VQ	Series 4535VQ		
	AA	No,2outlet 135° CCW from inlet	No.2outlet opposite inlet		
With No.1 outlet	AB	No,2outlet 45° CCW from inlet	No.2outlet 90° CCW from inlet		
Opposite inlet:	AC	No,2outlet 45° CW from inlet	No.2outlet inline with inlet		
	AD	No,2outlet 135° CW from inlet	No.2outlet 90° CW from inlet		
Mark No. 4 availab	ВА	No,2outlet 135° CCW from inlet	No.2outlet opposite inlet		
With No.1 outlet	BB	No,2outlet 45° CCW from inlet	No.2outlet 90° CCW from inlet		
90° CCW from	ВС	No,2outlet 45° CW from inlet	No.2outlet inline with inlet		
Inlet:	BD	No,2outlet 135° CW from inlet	No.2outlet 90° CW from inlet		
	CA	No,2outlet 135° CCW from inlet	No.2outlet opposite inlet		
With No.1	СВ	No,2outlet 45° CCW from inlet	No.2outlet 90° CCW from inlet		
outlet inline with inlet	CC	No,2outlet 45° CW from inlet	No.2outlet inline inlet		
With injet	CD	No,2outlet 135° CW from inlet	No.2outlet 90° CW from inlet		
	DA	No,2outlet 135° CCW from inlet	No.2outlet opposite inlet		
NACHE NIE 4 III.	DB	No,2outlet 45° CCW from inlet	No.2outlet 90° CCW from inlet		
With No.1 outlet	DC	No,2outlet 45° CW from inlet	No.2outlet inline with inlet		
90° CW inlet:	DD	No,2outlet 135° CW from inlet	No.2outlet 90° CW from inlet		











Installaion Dimensisions

