

# VANE HYDRAULIC PUMPS

- ▶ Spare Parts Available
- ▶ Easy Maintenance
- ▶ Super Low Noise Levels
- ▶ Excellent Power-to-Weight Ratio
- ▶ Smooth and Reliable Operation



**Global  
Manufacturer of  
Hydraulic Vane  
Pumps**



[WWW.MSCLX.COM](http://WWW.MSCLX.COM)

# MSCLX Hydraulic Vane Pumps

FEATURE	TECHNICAL SPECIFICATION
Pump Type	Intravane - Fixed Displacement
Max Operating Pressure	190 to 207 bar (2750 to 3000 psi) depending on model
Spike Test Pressure	240 bar (3500 psi)
Speed Range	600 - 1800 RPM (Up to 2400 RPM for VQ Series)
Operating Efficiency	92% - 94% at max RPM and pressure
Temperature Range	-20°C to 95°C
Recommended Fluid	Anti-wear Industrial Hydraulic oils or Automotive Crankcase oils
Viscosity Range	VG 22 to VG 68 (VG 22 for sub-zero; VG 68 for high temp)
Housing Material	SG-Iron - 500+ Mpa
Cam Material	Nickel-Chrome-Moly-Copper Alloy Steel (Cryogenically treated)
Vane Material	High-Speed Steel (Vanadium, Tungsten, Nickel, Moly Alloy)
Seal Type	Viton Seals

## Model-Specific Performance Metrics

Model Group	Motor Power (kW)	Delivery/ Flow Rate at 1200 rpm & 100 psi, at Max rpm & pressure (USGMP)	Model Group	Motor Power (kW)	Delivery/ Flow Rate at 1200 rpm & 100 psi, at Max rpm & pressure (USGMP)
20V2	8	2 / 3.1	20VQ2	8	2 / 4.1
20V5	11.25	5 / 8.0	20VQ5	11.25	5 / 10.6
20V8	17	8 / 11.9	20VQ8	17	8 / 15.9
20V11	22.5	11 / 15.9	20VQ11	22.5	11 / 21.2
20V12	25	12 / 17.7	20VQ12	25	12 / 23.6
20V14	28.5	14 / 19.9	20VQ14	28.5	14 / 26.5
25V12	22.75	12 / 17.2	25VQ12	22.75	12 / 21.1
25V14	25.75	14 / 19.9	25VQ14	25.75	14 / 24.3
25V17	29.5	17 / 24.2	25VQ17	29.5	17 / 29.6
25V21	34	21 / 29.5	25VQ21	34	21 / 36.0
35V25	45	25 / 35.6	35VQ25	45	25 / 43.5
35V30	54	30 / 42.7	35VQ30	54	30 / 52.2
35V35	61	35 / 49.0	35VQ35	61	35 / 54.4
35V38	65	38 / 52.9	35VQ38	65	38 / 58.8
45V42	75	42 / 60.4	45VQ42	75	42 / 60.4
45V50	87	50 / 70.9	45VQ50	87	50 / 70.9
45V60	100	60 / 84.4	45VQ60	100	60 / 84.4

## General Dimensions (Complete Single Stage Pump)

Model Group	LxHxW (in)	Weight (kg)
20V/VQ	5.5 x 5 x 5.75	12
25V/VQ	6.5 x 5.5 x 6.88	14.75
35V/VQ	7.3 x 6 x 8.4	22.5
45V/VQ	8.5 x 7 x 8.4	34

## General Dimensions (Cartridge Kit)

Model Group	DxH (in)	Weight kg
20V/VQ	3.2 x 3.25	2.3-2.4
25V/VQ	3.8 x 3.9	3.6
35V/VQ	4.5 x 4.6	6.5
45V/VQ	5.3 x 5.5	10

