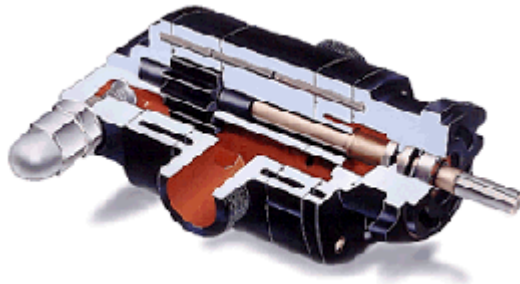


# Spur Gear Pumps



## Featuring The VI-CORR Composite Pump.

Viking Spur Gear Pumps are ideal for low-capacity, high-pressure, high-speed transfer applications. That's because the external gear principle displaces a precise amount of liquid with each revolution. These "fixed-displacement" pumps increase by capacities of 40 percent, so a pump is always within 20 percent of your capacity needs.

### Advantages:

- **Enhanced Leak Protection.** Standard Buna-N O-rings provide positive sealing between sections. VI-CORR pumps use Viton® O-rings for even greater sealing between sections.
- **Improved Efficiency.** Standard antifriction needle bearings on all lip seal spur pumps reduce torque and improve efficiency.
- **Long Gear And Shaft Life.** Precision-ground, heat-treated gears and case-hardened steel shafts offer long-life performance.
- **Reduced Equipment Costs.** A single power source can operate both pumping units of a double pump. Plus, each pumping unit can operate at different pressures for easier system integration.
- **Easy System Integration.** Viking Spur Gear and VI-CORR Pumps are available with lip seal, mechanical seal, and Viking Mag Drive® options. Select from one of four 180° port configurations.

### Specifications:

All specifications at 6.9 BAR/100 PSI discharge pressure.

Spur Gear Pumps						
Viscosity: 100 SSU						
Size	Metric			U.S.		
	M <sup>3</sup> /Hr	RPM	KW	GPM	RPM	BHP
SG-0417	.009	1450	.04	.05	1750	.09
SG-0418	.019	1450	.06	.1	1750	.12
SG-0425	.032	1450	.07	.17	1750	.13
SG-0435	.045	1450	.09	.24	1750	.5
SG-0450	.064	1450	.11	.34	1750	.2

SG-0470	.083	1450	.14	.44	1750	.26
SG-0518	.12	1450	.05	.65	1750	.08
SG-0525	.17	1450	.07	.9	1750	.13
SG-0535	.25	1450	.09	1.3	1750	.15
SG-0550	.38	1450	.11	2.0	1750	.2
SG-0570	.51	1450	.15	2.7	1750	.27
SG-0510	.76	1450	.21	4.0	1750	.35
SG-0514	1.04	1450	.28	5.5	1750	.5
SG-0519	1.3	1450	.34	7.0	1750	.6
SG-0528	2.1	1450	.52	11.0	1750	.8
SG-0729	.53	1450	.20	2.8	1750	.31
SG-0741	.76	1450	.34	4.0	1750	.6
SG-0758	1.06	1450	.37	5.6	1750	.7
SG-0782	1.51	1450	.45	8	1750	.7
SG-0711	1.98	1450	.75	10.5	1750	1.2
SG-0716	3.02	1450	.81	16	1750	1.5
SG-0722	3.97	1450	1.3	21	1750	2.4
SG-0732	5.67	1450	1.7	30	1750	3

Viscosity: 25,000 SSU

Size	Metric			U.S.		
	M <sup>3</sup> /Hr	RPM	KW	GPM	RPM	BHP
SG-0417	.01	1450	.17	.06	1750	.27
SG-0418	.02	1450	.21	.12	1750	.35
SG-0425	.03	1450	.24	.17	1750	.43
SG-0435	.05	1450	.26	.25	1750	.5
SG-0450	.06	1450	.31	.33	1750	.55
SG-0470	.09	1450	.34	.48	1750	.60
SG-0518	.14	1450	.22	.75	1750	.42
SG-0525	.19	1450	.28	1.0	750	.48
SG-0535	.28	1450	.32	1.5	1750	.57
SG-0550	.4	1450	.45	2.1	1750	.8
SG-0570	.36	920	.31	2.0	1750	.55
SG-0510	.43	780	.26	1.9	780	.35
SG-0514	.48	640	.27	2.1	640	.36
SG-0519	.59	640	.37	2.6	640	.5
SG-0528	.87	1450	.52	3.8	640	.7
SG-0729	.53	1450	.6	2.8	1750	1.0
SG-0741	.77	1450	.9	4.1	1750	1.5
SG-0758	1.1	1450	1.1	5.8	1750	1.9
SG-0782	.98	920	.9	5.4	1150	1.5
SG-0711	1.37	920	1.2	7.5	1150	2
SG-0716	1.64	780	1.1	7.2	780	1.5
SG-0722	2.55	920	2.5	14	1150	4
SG-0732	3.19	780	2.2	14	780	3

- **Temperature Range:** -40°C to +230°C / -40°F to +450°F
- **Viscosity Range, Single Pumps:** 6.2 cSt to 220,000 cSt / 28 SSU to 1,000,000 SSU

- **Viscosity Range, Double Pumps:** 6.2 cSt to 16,500 cSt / 28 SSU to 75,000 SSU
- **Differential Pressures:** To 34 BAR / 500 PSI
- **Certification:** Some cast iron spur gear models are NSF certified



## Viking VI-CORR Pumps

The **Viking VI-CORR Pump** (*top left*) uses corrosion-resistant materials for all product-wetted parts for outstanding fluid compatibility. In fact, Viking VI-CORR Pumps are compatible with hundreds of corrosive liquids listed on the *PPS Corrosion Guide*. Specifically, casing and gears are constructed of Ryton®, the shaft is coated stainless steel or optional solid hastelloy, and the relief valve is made of stainless steel. Not only is fluid compatibility assured, but the corrosive-resistant materials prohibit thermal expansion so that the VI-CORR retains exceptional dimensional stability for better performance.

### Specifications:

VI-CORR Pumps						
Viscosity: 100 SSU						
	Metric			U.S.		
Size	M3/Hr	RPM	KW	GPM	RPM	BHP
RP-0518	.008	1450	.06	0.4	1750	.1
RP-0525	.14	1450	.06	.75	1750	.1
RP-0535	.24	1450	.09	1.25	1750	.15
RP-0550	.34	1450	.13	1.8	1750	.22
RP-0570	.45	1450	.20	2.6	1750	.3
RP-0510	.72	1450	.23	3.8	1750	.4
RP-0514	1.0	1450	.37	5.5	1750	.6
RP-0782	1.5	1450	.63	8	1750	1.1
RP-0716	3.0	1450	.72	16	1750	1.2
RP-0724	4.5	1450/1450	1.3	24	1750	2.2
RP-0732	6.0	1450	1.5	32	1750	2.4
Viscosity: 7,500 SSU						
	Metric			U.S.		
Size	M <sup>3</sup> /Hr	RPM	KW	GPM	RPM	BHP
RP-0518	.08	920	.07	.45	1150	.15
RP-0525	.12	920	.09	.65	1150	.18
RP-0535	.16	920	.11	.9	1150	.2
RP-0550	.25	920	.13	1.35	1150	.27
RP-0570	.23	640	.13	1.0	640	.17
RP-0510	.34	640	.13	1.5	640	.18
RP-0514	<b>Consult Factory.</b>					
RP-0782	1.1	920	.63	5.25	1150	1.1
RP-0716	1.2	920	.87	10.5	1150	1.5
RP-0724	2.9	920	1.5	16	1150	2.5
RP-0732	3.8	920	1.8	21	1150	2.9

- **Temperature Range:** -40°C to +90°C / -40°F to +200°F
- **Viscosity Range:** 0.8 cSt to 5,500 cSt / 28 SSU to 25,000 SSU
- **Differential Pressures:** To 14 BAR / 200 PSI

### **Typical VI-CORR And Spur Gear Applications**

- Industrial and mobile applications
- Fuel and lubrication
- Filtering
- Metering
- Mixing and blending (Double Pump)
- Special hydraulic applications

*Viton® is a registered trade name of the DuPont Company.*

*Ryton® is a registered trade name of Phillips Petroleum Company.*

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