

# LGL 1.25 & 1.5 Sliding Vane Pumps

MOTOR SPEED LPG PUMPS | PRODUCT BROCHURE



*Blackmer*

Where Innovation Flows



For multiple bottles and larger cylinder filling, Blackmer® LGL 1.25 & 1.5 Sliding Vane Pumps are the best choice. These motor speed UL Listed pumps for LPG, butane, and anhydrous ammonia, can run at speeds of 1150, 1450 or 1750 rpm with flow rates up to 33 gpm (125 L/min).

## MOTOR SPEED PUMPS FOR LPG APPLICATIONS

### LGL 1.25 & 1.5 Sliding Vane Pumps | Motor Speed LPG Pumps

The leading advantage of Blackmer Sliding Vane Pumps in difficult LPG applications is that the pumps feature no metal-to-metal contact due to the use of non-metallic vanes and locknuts on the rotor, both of which prevent this from happening. The LGL 1.25 & 1.5 Sliding Vane Pump's self-adjusting non-metallic duravanes provide consistent volumetric performance by wearing evenly and are easily replaced when needed. The LGL1.25 & 1.5 Sliding Vane Pumps feature a cavitation-suppression liner that enable them to better handle any LPG vaporization that may occur within the pump – reducing, noise, vibration, and wear. Finally, the LGL 1.25 & 1.5 Sliding Vane Pumps incorporate an internal relief valve designed to protect the pump from excessive pressure.

The LGL Motor Speed LPG Pumps have 1.25-inch or 1.5-inch NPT tapped ports for 180° inline porting and can produce flow rates between 10 and 33 gpm (38 - 125 L/min) at temperatures from -25°F to 240°F (-32°C to 115°C) and working pressures up to 350 psi (24.1 bar) and maximum differential pressure of 150 psi (10.34 bar). They offer two mounting styles: foot mounting to a common baseplate (LGL) and bracket/coupling for direct flange mounting to a NEMA C-face motor (LGLF).

#### Applications

- LPG, Butane & Anhydrous Ammonia
- Multiple-Station Cylinder Filling
- Multiple Bottle Filing
- Small Transfer



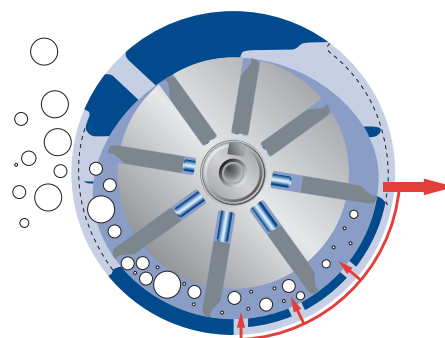
LGLF125  
SLIDING VANE PUMP

## Cavitation Suppression Liners Reduce Harmful Effects

Blackmer® LGL 1.25 & 1.5 Sliding Vane Pumps feature Cavitation Suppression Liners. This technology mitigates cavitation by reducing the amount of cavitation in the pump. Reducing the cavitation level reduces vibration, noise and wear.

The sudden collapse of vapor bubbles inside the pump is known as cavitation. By allowing a controlled amount of fluid at discharge pressure to bleed back toward the suction of the pump, the vapor bubbles are collapsed over a longer period time. The net result is less noise, less vibration and less wear.

Cavitation can be devastating for pump components and can even lead to system failure. To learn how Blackmer® LGL 1.25 & 1.5 Sliding Vane Pumps incorporate a revolutionary Cavitation Suppression Liner that mitigates and even eliminates the harmful effects of pump cavitation visit [blackmer.com/cavitation](http://blackmer.com/cavitation).



## Maintenance Kits

LGL 1.25 & 1.5 Sliding Vane Pumps feature replaceable vanes, casing liner, and end discs for easy rebuilding of the pump.

Order the appropriate Maintenance Kit below:

MODEL(S)	DESCRIPTION	PART NUMBER
<b>LGRL1.25, LGRLF1.25A, LGL1.25</b>	Kit - Maintenance	898976
<b>LGRL1.25, LGRLF1.25A</b>	Kit - Rebuild	899076
<b>LGL1.25, LGLF1.25A</b>	Kit - Rebuild	899077
<b>LGL1.5, LGLF1.5A</b>	Kit - Rebuild	899078

## Model Configurations

MODEL	DESCRIPTION
<b>F</b>	C-Face Flange
<b>R</b>	Reduced Flow Liner

## Assembled Pump Units

### LGF Drive Style

#### Flange Mounting – Direct Motor Drive

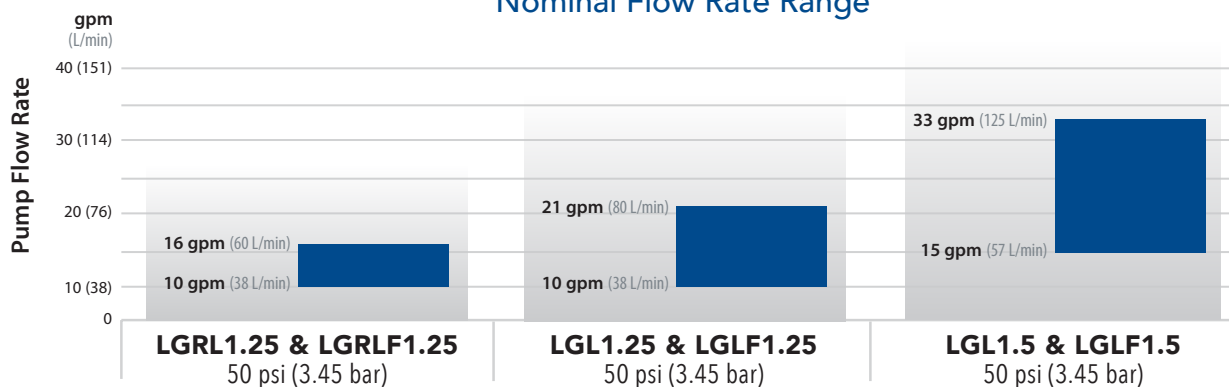
- LGRLF 1.25, LGLF1.25 and LGLF1.5 models are supplied with an integral bracket, with or without mounting foot, and a flexible shaft coupling, ready to accept NEMA C-face motors. All LGF units are available with or without electric motors.

### DM Drive Style

#### Foot Mounting – Direct Motor Drive

- LGL1.25-DM and LGL1.5-DM base-mounted units are available, complete with pump, coupling and coupling guard, mounted on a common base, ready to accept a standard NEMA motor. All DM units are available with or without electric motors.

## Nominal Flow Rate Range



Maximum Differential Pressure 150 psi (10.3 bar)  
(Internal relief valve setting)



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