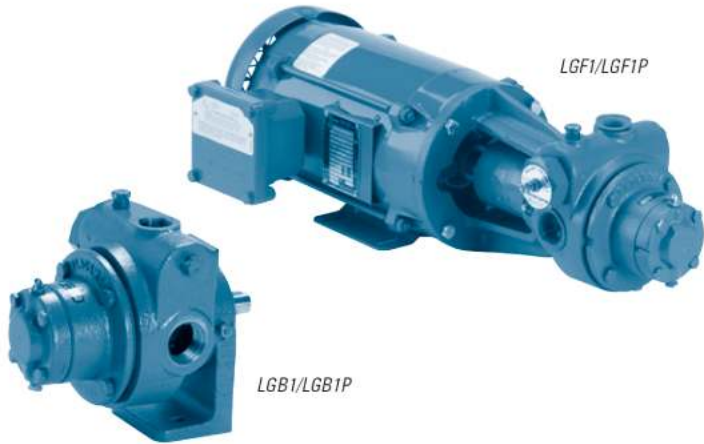




### LGF1 & LGB1 Pumps Motor Speed Pumps for Cylinder Filling



LGF1/LGF1P cutaway



LGF1/LGF1P

LGB1/LGB1P

These 1-inch motor speed pumps have long been popular for cylinder filling, small volume motor fueling and supplying small vaporizers. They offer the same heavy-duty construction of larger Blackmer models and are available in two mounting styles and capacity ranges. The LGF1 model is fitted with an integral bracket and coupling for direct flange mounting to a NEMA C-face motor. This bracket also allows the pump body to be rotated to simplify hookup to piping systems. The LGB1 model is equipped with a coupling and bracket for mounting to a conventional base. The LGF1 and LGB1 models will handle up to 10 U.S. gpm (38 lpm). The LGF1P and LGB1P models offer 50% greater capacity and will handle up to 15 U.S. gpm (57 lpm).

All models have 1-inch NPT tapped ports and use an exclusive "combination" valve that acts as both a back-to-tank bypass valve and as an internal relief valve. This feature lowers installation costs by eliminating the need for a separate bypass valve. It also assures pressure relief if the back-to-tank bypass line is closed. The valve's unique three-stage operation is shown in Figure 3.

Standard construction materials for these models include Buna-N mechanical seals and Duravanes for handling both LP gas and anhydrous ammonia. Maximum differential pressure is 125 psi (8.62 Bar) for both models.

### Assembled Pump Units



#### LGF Drive Style Flange Mounting - Direct Motor Drive

LGF1 and LGF1P models are supplied with an integral bracket and flexible

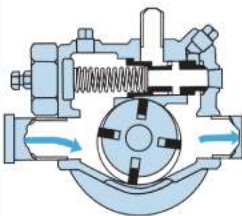
shaft coupling, ready to accept a NEMA C-face motor. All LGF units are available with or without electric motors. Standard motors furnished by Blackmer for these pumps are explosion-proof, single-phase, 115/230 volt, with automatic reset overload protection. An explosion-proof manual switch is also available for mounting at the motor or remote location.

#### DM Drive Style Bracket Mounting - Direct Motor Drive

LGB1-DM or LGB1P-DM base-mounted units are available, complete with pump, bracket, 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.

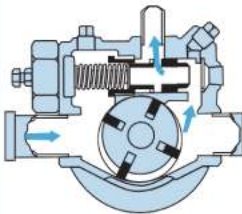


FIGURE 3. Combination relief/bypass valve



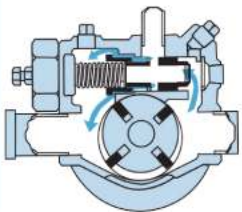
#### Normal Operation

Valve is completely closed during normal operation with discharge line open.



#### Back-to-Tank Bypassing

Discharge pressure exceeding the valve setting opens valve to second stage, returning all or part of pump flow back to supply tank.



#### Pressure Relief

If back-to-tank line is closed, valve opens to third stage, passing flow back to inlet side of pump.



### Selection Data

When selecting a standard pump or assembled unit from the table below, check the pump's delivery and brake horsepower requirements in the performance curves. These pumps are rated for continuous duty, although such applications may accelerate pump wear rates, particularly if vaporization occurs in the pump

intake line. Pumps used on vaporizers should be mounted with inlet up, and sized for a capacity of at least 150% of the normal peak load to prevent system failure due to sudden pressure drop on start-up. Additional system requirements can be achieved by series of parallel staging.

Assembled Pump Units		Pump and Motor Speed RPM	Approximate Delivery of Propane at Differential Pressures and Pump Speeds Shown <sup>1</sup>				Maximum Differential Pressure		Maximum Working Pressure <sup>3</sup>		Normal Time To Fill LP Gas Cylinders in Minutes		Standard Motor <sup>2</sup>	Motor Size For Mounting on Standard Base <sup>2</sup>	
Model	Factory Relief Valve Setting		50 PSI (3.45 Bar)		100 PSI (6.89 Bar)		PSI	Bar	PSI	Bar	20 LB. (9 KG) Cylinder	100 LB. (45 KG) Cylinder	HP	Minimum Frame Size	Maximum Frame Size
			GPM	LPM	GPM	LPM									
LGF1	105 psi (7.24 Bar)	1,750	8.0	30.3	6.0	22.7	125	8.62	350	24.13	¾	3	1	56C	184C <sup>4</sup>
LGB1-DM	105 psi (7.24 Bar)	1,750	8.0	30.3	6.0	22.7	125	8.62	350	24.13	¾	3	1	56	184
LGF1P	120 psi (8.27 Bar)	1,750	13.0	49.2	10.0	37.9	125	8.62	350	24.13	½	2	1½	56C	184C <sup>4</sup>
LGB1P-DM	120 psi (8.27 Bar)	1,750	13.0	49.2	10.0	37.9	125	8.62	350	24.13	½	2	1½	56	184

<sup>1</sup> Check the pump's delivery and brake horsepower requirements in the performance curves below. See footnote with the curves which explains the factors that can cause delivery to vary.

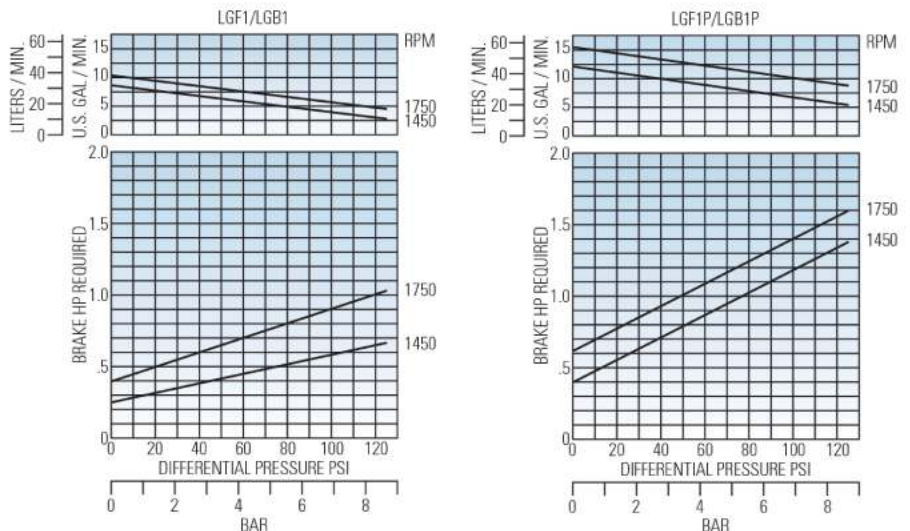
<sup>2</sup> Motors may be specified from dimension charts below and Electric Motor Price List No. 10-MTRG-01 (explosion-proof manual start switch for 1 & 1-1/2 horsepower single-phase motors also available).

<sup>3</sup> Maximum rated working pressure is 350 psi (24.13 Bar) for LPG and NH<sub>3</sub> (limited by U.L. and N.F.P.A. 58).

<sup>4</sup> Pump flange accepts NEMA C-face motors with 5-7/8" bolt circle diameter. Pump flange will not accept 182TC or 184TC frames.

### Performance Curves

These curves are based on approximate delivery rates when handling propane or anhydrous ammonia at 80°F (26.7°C). Line restrictions such as excess flow valves, elbows, etc. will adversely affect deliveries. For propane at 32°F (0°C), actual delivery will be further reduced to about 80% of nominal. Delivery of butane at 80°F (26.7°C) will be 60% to 70% of these values, and may run as low as 35% to 45% at 32°F (0°C). This loss of delivery is not a pump characteristic but is caused by natural thermodynamic phenomena of liquefied gases.







## LGL Series Pumps

With Cavitation Suppression Liners



1.25-inch through 4-inch LGL pumps feature noise suppression liners. This patented technology reduces noise at its source by reducing the amount of cavitation in the pump. Reducing the cavitation level also reduces vibration and wear.

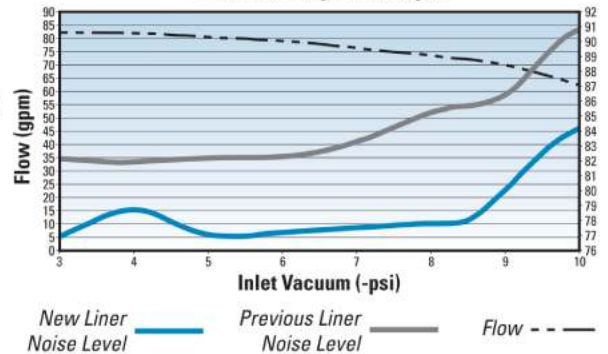
The sudden collapse of vapor bubbles inside the pump is known as cavitation. By allowing a controlled amount of fluid at discharge pressure to bleed back toward the suction of the pump, the vapor

bubbles are collapsed over a longer period time. The net result is less noise, less vibration and less wear.

As shown in the chart, the reduction in noise level can be quite dramatic. Similar noise reductions have been measured in all the LGL pump sizes.

Patent number: 6,030,191

**Flow and Noise vs. Inlet Vacuum**  
TLGLF3, 125 psi, 640 rpm



## LGR1.25, LGL1.25 & LGL1.5 Pumps

Motor Speed Pumps for Motor Fueling and Multi-Cylinder Filling



LGL1.25/LGL1.5

These durable motor speed pumps offer capacities from 9 to 35 U.S. gpm (34-132 lpm), and are ideal for motor fueling, multiple-station cylinder filling and a variety of small transfer jobs. The LGL models are designed for foot mounting to a common base-plate. The LGLF models are fitted with an integral bracket and coupling for direct flange mounting to a NEMA C-face motor. This bracket also allows the pump body to be rotated to simplify hookup to piping systems.

Available with 1.25 or 1.5-inch NPT tapped ports, all models are equipped with an internal relief valve, and a replaceable casing liner and end discs for easy rebuilding of the pumping chamber if ever necessary. The LGR1.25-inch model features a special liner, which offers lower flow rates than the LGL 1.25-inch pump. In addition, these pumps feature cavitation suppression liners to reduce noise, vibration and wear.

Standard construction materials for these models include Buna-N mechanical seals and Duravanes for handling both LP gas and anhydrous ammonia. Maximum differential pressure is 150 psi (10.34 Bar) for all models.

### Assembled Pump Units



LGL1.25/LGL1.5



#### LGF Drive Style

Flange Mounting - Direct Motor Drive

Standard LGR1.25 and LGL1.25 models are supplied with an integral bracket and a flexible shaft coupling, ready to accept a NEMA C-face motor. All LGF units are available with or without electric motors.



#### DM Drive Style

Foot Mounting - Direct Motor Drive

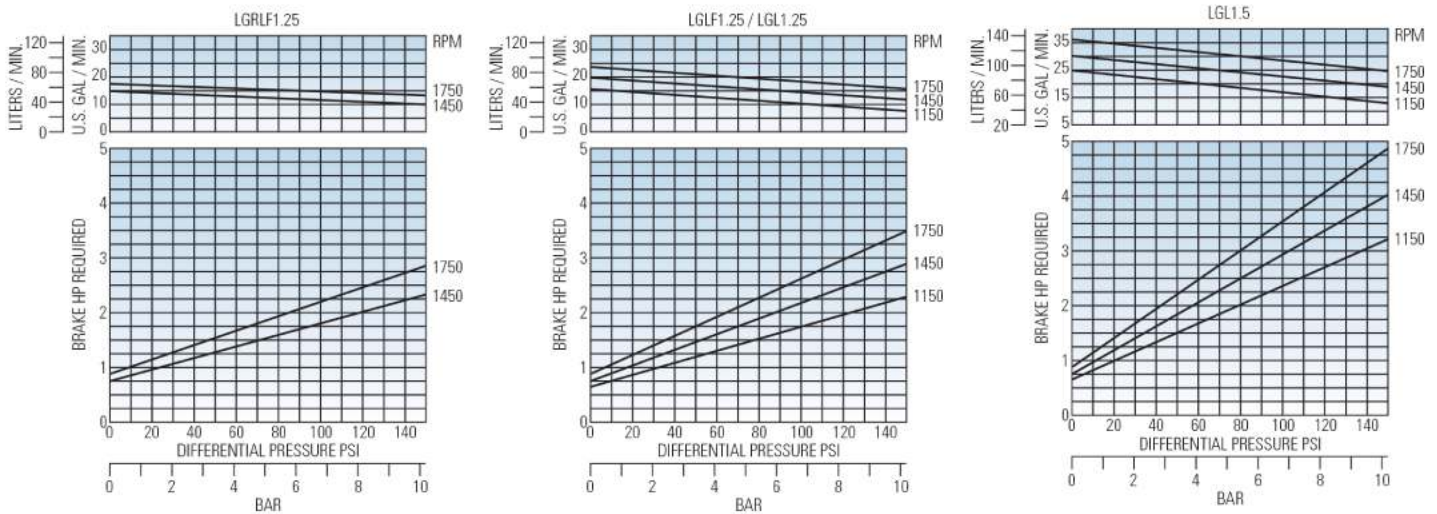
LGL1.25-DM and LGL1.5-DM base-mounted units are available, complete with pump, coupling and coupling guard, mounted on a common base, ready to accept a standard NEMA motor. All DM units are available with or without electric motors.



LGR1.25/LGL1.25



### Performance Curves



These curves are based on approximate delivery rates when handling propane or anhydrous ammonia at 80°F (26.7°C). Line restrictions such as excess flow valves, elbows, etc. will adversely affect deliveries. For propane at 32°F (0°C), actual delivery will be further reduced to about 80% of nominal. Delivery of butane at 80°F (26.7°C) will be 60% to 70% of these values and may run as low as 35% to 45% at 32°F (0°C). This loss of delivery is not a pump characteristic but is caused by natural thermodynamic phenomena of liquefied gases.

### Selection Data

When selecting a standard pump or assembled unit from the table below, check the pump's delivery and brake horsepower requirements in the performance curves. These pumps are rated for continuous duty, although such applications may accelerate pump wear rates, particularly if vaporization occurs in the pump

intake line. Pumps used on vaporizers should be mounted with inlet up, and sized for a capacity of at least 150% of the normal peak load to prevent system failure due to sudden pressure drop on startup. Additional system requirements can be achieved by series or parallel staging.

Assembled Pump Units		Pump and Motor Speed RPM	Approximate Delivery of Propane at Differential Pressures and Pump Speeds Shown <sup>1</sup>				Maximum Differential Pressure		Maximum Differential Pressure <sup>2</sup>		Motor Size For Mounting on Standard Base <sup>3</sup>	
Model	Factory Relief Valve Settings		50 PSI (3.45 Bar)		100 PSI (6.89 Bar)		PSI	Bar	PSI	Bar	Minimum Frame Size	Maximum Frame Size
			GPM	LPM	GPM	LPM						
LGRLF1.25	150 psi (10.34 Bar)	1,750	16.0	60.6	14.0	53.0	150	10.34	350	24.13	56C	184C <sup>4</sup>
LGLF1.25	150 psi (10.34 Bar)	1,750	21.0	79.5	18.0	68.1	150	10.34	350	24.13	56C	184C <sup>4</sup>
		1,150	13.0	49.2	10.0	37.9	150	10.34	350	24.13	56C	184C <sup>4</sup>
LGL1.25-DM	150 psi (10.34 Bar)	1,750	21.0	79.5	18.0	68.1	150	10.34	350	24.13	56	215
		1,150	13.0	49.2	10.0	37.9	150	10.34	350	24.13	56	215
LGL1.5-DM	150 psi (10.34 Bar)	1,750	33.0	124.9	29.0	109.8	150	10.34	350	24.13	56	215
		1,150	20.0	75.7	17.0	64.4	150	10.34	350	24.13	56	215

<sup>1</sup> Check the pump's delivery and brake horsepower requirements in the performance curves. See footnote with the curves which explains the factors that can cause delivery to vary.

<sup>2</sup> Maximum rated working pressure is 350 psi (24.13 Bar) for LPG and NH<sub>3</sub> (limited by U.L. and N.F.P.A. 58).

<sup>3</sup> Motors may be specified from dimension charts below and Electric Motor Price List No. 10-MTRG-01 (explosion-proof manual start switch for 1 & 1-1/2 horsepower single-phase motors also available).

<sup>4</sup> Pump flange accepts NEMA C-face motors with 5-7/8" bolt circle diameter. Pump flange will not accept 182TC or 184TC frames.

Note: Refer to back cover for external bypass valve information.

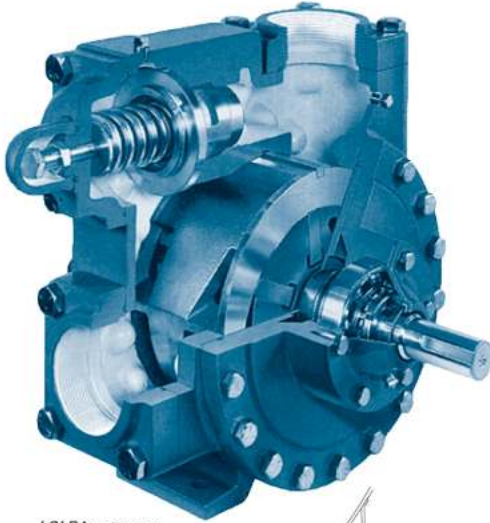




# LGLD2, LGLD3 & LGLD4 Pumps

Multi-Purpose Pumps for Bulk Plants, Terminals and Truck Systems

**DMC** 多美時燃氣設備有限公司  
DMC GAS EQUIPMENT LIMITED



LGLD4 cutaway



These rugged pumps are ideal for bulk plant service, multiple cylinder filling applications, vaporizers, bobtails and transports.

Single- or double-ended drive shaft models are offered in 2-, 3- and 4-inch port sizes with capacities ranging from 30 to 300 U.S. gpm (114–1,135 lpm). The LGLD2 and LGLD3 models have long been popular for bobtail service because of their double-ended drive shaft arrangement, which allows the pump to be easily positioned for clockwise or counter-clockwise shaft rotation.

All models have an internal relief valve, and a replaceable casing liner and end discs for easy rebuilding of the pumping chamber if ever necessary. In addition, these pumps feature cavitation suppression liners to reduce noise, vibration and wear.

Standard construction materials include Buna-N mechanical seals and Duravanes for handling both LP-gas and anhydrous ammonia.

Maximum differential pressure for the 2- and 3-inch models is 150 psi (10.34 Bar), and 125 psi (8.62 Bar) for the 4-inch models. Ports are offered with NPT tapped companion flanges or weld flanges.

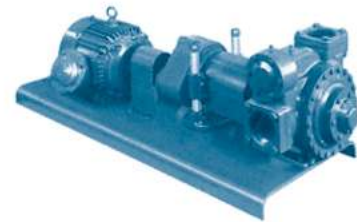
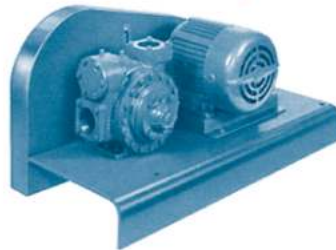
## Truck Mounted Drive

Blackmer LGLD2 pumps are often mounted to the chassis of a bobtail, or to a steel pad that is welded to the tank.

The 3- and 4-inch models can be mounted to a transport in a number of different ways, generally near or between the tank landing gear brackets.

Truck mounted pumps are normally driven through a P.T.O. or hydraulic drive system. Refer to Blackmer's Liquefied Gas Handbook-Bulletin 500-001 for various types of bobtail and transport pump systems.

## Assembled Pump Units



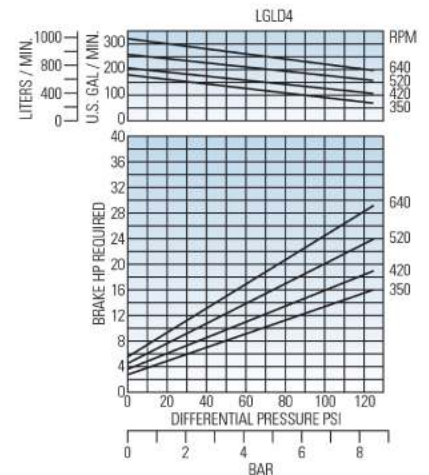
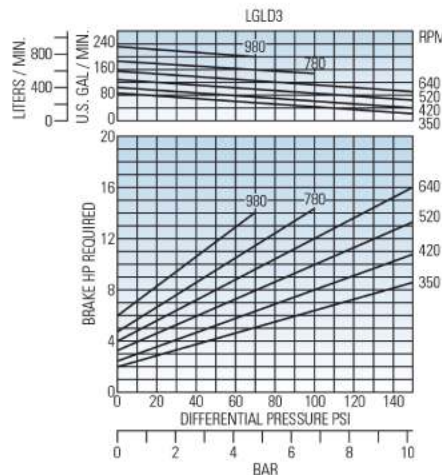
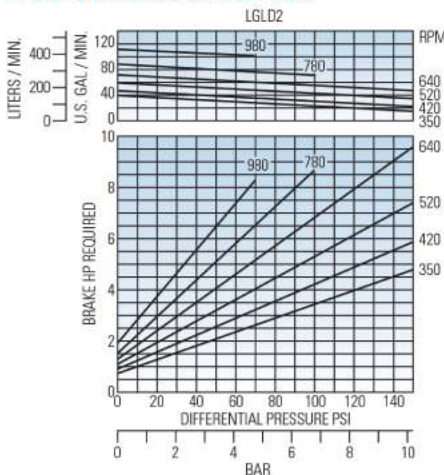
### VB Drive Style V-Belt Drive

Standard base-mounted VB units are available, complete with pump, hubs, sheaves, high-torque V-belts and belt guard, mounted on a common base, ready to accept a standard NEMA motor. All VB units are available with or without motors.

### HR Drive Style Helical Gear Reduction Drive

Standard base-mounted HR units are available, complete with pump, Blackmer Helical Gear Reducer, mounting brackets, couplings and coupling guards, mounted on a common base, ready to accept a standard NEMA motor. All HR units are available with or without motors.

## Performance Curves



These curves are based on approximate delivery rates when handling propane or anhydrous ammonia at 80°F (26.7°C). Line restrictions such as excess flow valves, elbows, etc. will adversely affect deliveries. For propane at 32°F (0°C), actual delivery will be further reduced to about 80% of nominal. Delivery of butane at 80°F (26.7°C) will be 60% to 70% of these values, and may run as low as 35% to 45% at 32°F (0°C). This loss of delivery is not a pump characteristic but is caused by natural thermodynamic phenomena of liquefied gases.

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Tel: +852 2851 2121

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### Selection Data

When selecting a pump for truck or transport systems, use the performance curves on the opposite page. For a standard pump or assembled unit, use the table shown. The table shows brake horsepower limitations for the unit's drive and base. Check these limits against the pump brake horsepower requirements, as shown in the curves. For continuous duty applications, it is generally advisable to use pump speeds of 400 rpm or less. Peak shaving plant systems, for example, involve continuous pump duty. Moreover, pumps used in peak shaving plant systems should be sized for a capacity of at least 150% of the normal peak load to prevent system failure due to abnormal vaporization in the intake line.

Assembled Pump Units		Pump Speed RPM (Using 1,750 RPM Motor)	Approximate Delivery of Propane at Differential Pressures and Pump Speeds Shown <sup>1</sup>				Maximum Differential Pressure		Maximum Working Pressure <sup>2</sup>		Drive Rating (Maximum Horsepower Drive Will Transmit) <sup>3</sup>			Motor Size For Mounting on Standard Base <sup>4</sup>	
Model	Factory Relief Valve Setting		50 PSI (3.45 Bar)		100 PSI (6.89 Bar)		PSI	Bar	PSI	Bar	0-3 Hour Duty	3-4 Hour Duty	8-24 Hour Duty	Minimum Frame Size	Maximum Frame Size
			GPM	LPM	GPM	LPM									
LGLD2-VB	150 PSI (10.34 Bar)	660	67	254	57	216	150	10.34	350	24.13	9.2	9.2	7.8	184T	213T
		520	50	189	41	155	150	10.34	350	24.13	6.4	6.4	5.4	182T	184T
		420	40	151	30	114	150	10.34	350	24.13	4.8	4.8	4.0	182T	184T
LGLD2-HROF	150 PSI (10.34 Bar)	640	65	246	55	208	150	10.34	350	24.13	8.9	7.1	5.7	143T	215T
		520	50	189	41	155	150	10.34	350	24.13	7.0	5.6	4.5	143T	215T
		420	40	151	30	114	150	10.34	350	24.13	5.4	4.3	3.4	143T	215T
LGLD3-VB	150 PSI (10.34 Bar)	640	133	503	112	424	150	10.34	350	24.13	12.1	12.1	10.2	215T	254T
		520	108	409	84	318	150	10.34	350	24.13	8.9	8.9	7.5	213T	215T
		420	80	303	60	227	150	10.34	350	24.13	7.3	7.3	6.1	213T	215T
LGLD3-HRA	150 PSI (10.34 Bar)	640	133	503	112	424	150	10.34	350	24.13	25.0	25.0	20.0	182T	256T
		520	108	409	84	318	150	10.34	350	24.13	24.3	19.4	15.5	182T	256T
		420	80	303	60	227	150	10.34	350	24.13	17.8	14.3	11.4	182T	256T
LGLD4-VB	150 PSI (10.34 Bar)	640	270	1,022	220	833	125	8.62	350	24.13	26.9	26.9	22.8	254T	284T
		520	220	833	180	681	125	8.62	350	24.13	19.6	19.6	16.6	254T	256T
		420	170	644	130	492	125	8.62	350	24.13	15.8	15.8	13.4	215T	256T
LGLD4-HRA	150 PSI (10.34 Bar)	640	270	1,022	220	833	125	8.62	350	24.13	25.0	25.0	20.0	213T	256T
		520	220	833	180	681	125	8.62	350	24.13	24.3	19.4	15.5	213T	256T
		420	170	644	130	492	125	8.62	350	24.13	17.8	14.3	11.4	213T	256T
LGLD4-HRB	150 PSI (10.34 Bar)	640	270	1,022	220	833	125	8.62	350	24.13	30.0	30.0	26.9	182T	286T
		500	210	795	170	644	125	8.62	350	24.13	30.0	30.0	24.0	182T	286T
		400	160	606	120	454	125	8.62	350	24.13	30.0	24.1	19.3	182T	286T

### Companion Flanges

Pump Model	Standard or Optional	Intake	Discharge
LGLD2	Standard	2" NPT	2" NPT
	Optional	2" Weld	2" Weld
LGLD3	Standard	3" NPT	3" NPT
	Optional	3" Weld	3" Weld
LGLD4	Standard	4" Weld	3" Weld
	Optional	4" Weld	4" Weld

<sup>1</sup> Check the pump's delivery and brake horsepower requirements in the performance curves on opposite page. See footnote with the curves which explains the factors that can cause delivery to vary.  
<sup>2</sup> Maximum rated working pressure is 350 psi (24.13 Bar) for LPG and NH<sub>3</sub> (limited by U.L. and N.F.P.A. 58).  
<sup>3</sup> Maximum horsepower that standard drive (V-belt/gearbox and base) will transmit.  
<sup>4</sup> Motors may be specified from dimension charts below and Electric Motor Price List No. 10-MTRG-01  
 Note: Refer to back cover for external bypass valve information.



## LGL158 and LGLH2 High Differential Pressure Pumps



LGL 158A

Designed for the toughest LPG applications:

- Single and dual hose auto fuel dispensers
- Aerosol filling
- Vaporizer feed
- Underground tank applications
- Aboveground tank applications
- Other high differential pressure liquefied gas applications

See Spec Sheet 501-004 for more information.

### Performance

Performance at 150 psid (10.3 bar) differential pressure			Maximum Differential Pressure	Relief Valve Setting	Maximum Working Pressure
1750 rpm	1450 rpm	1150 rpm			
32.3 gpm / 5.2 hp	24 gpm / 4.3 hp	17.8 gpm / 3.4 hp	200 psi	220 psi	425 psi
122 lpm / 4 kw	91 lpm / 3.2 kw	67 lpm / 2.5 kw	13.8 Bar	15.2 Bar	29.3 Bar

U.L. listed for use on propane, butane and butane/propane mixes.



LGLH2

Make the best 2-inch LPG pump on the market even tougher – that is the LGLH2! Rated at 165 psi (11.4 Bar) differential pressure, the LGLH2 is perfect for use on bobtails filling LPG tanks on the top of multi-story buildings, high capacity LPG fueling or other high differential pressure applications.

See Spec Sheet 501-005 for more information.

### Performance

Performance at 145 psid (10 bar) differential pressure			Maximum Differential Pressure	Relief Valve Setting	Maximum Working Pressure
780 rpm	640 rpm	520 rpm			
61 gpm / 11.7 hp	47 gpm / 9.2 hp	32.6 gpm / 7.1 hp	165 psi	190 psi	390 psi
231 lpm / 4 kw	178 lpm / 6.9 kw	123 lpm / 5.3 kw	11.4 Bar	13.1 Bar	26.9 Bar

U.L. listed for use on propane, butane and butane/propane mixes.

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Website: [www.dmc-gas.com](http://www.dmc-gas.com)

Email: [dmcsaleshk@dmc-gas.com.hk](mailto:dmcsaleshk@dmc-gas.com.hk)

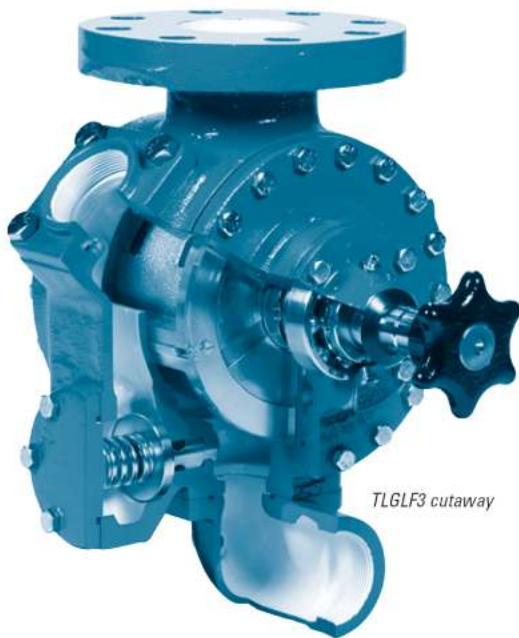
Tel: +852 2851 2121

Fax: +852 2851 2129





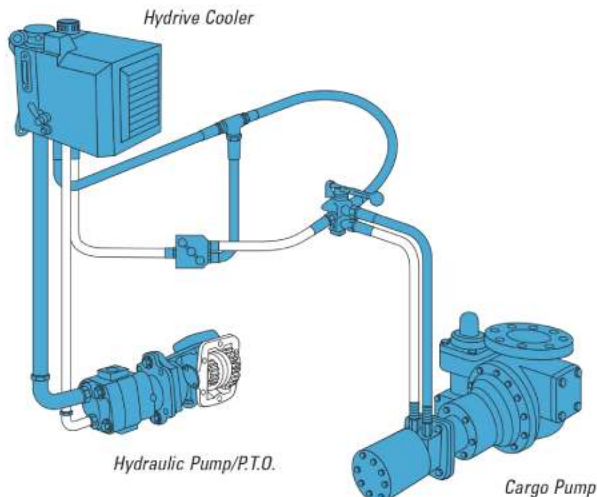
## TLGLF3 & TLGLF4 Pumps Flange Mounted Pumps for Bobtails and Transports



TLGLF3 cutaway



TLGLF4 cutaway



Hydrive Cooler

Hydraulic Pump/P.T.O.

Cargo Pump

Blackmer TLGLF3 and TLGLF4 pumps are designed to flange mount directly to a commercial internal control valve, in combination with the tank of a bobtail or transport. Direct mounting eliminates the need for inlet pipes, shut-off valve and external strainer which can restrict flow and cause vaporization problems. The result is smoother operation and longer pump life.

Both models are equipped with a double-ended drive shaft for clockwise or counterclockwise rotation by simply changing position of the pump. Each model also has an auxiliary intake port which can be used for emergency unloading of another tank or transport. In addition, these pumps have an internal relief valve, patented cavitation suppression liners to reduce noise, vibration and wear.

Standard construction materials for both models include Buna-N mechanical seals and Duravanes for handling both LP-gas and anhydrous ammonia. The casing liner and end discs are replaceable for easy rebuilding of the pumping chamber if ever necessary.

The TLGLF3 is widely used on bobtails because of its compact mounting arrangement, with a 3-inch ANSI intake flange and 2-inch auxiliary intake and discharge ports. Capacities range from 60 to 110 U.S. gpm (227 to 416 lpm).

The TLGLF4 offers maximum output rates, and fast turnaround time for transports. It is designed with 4-inch ANSI intake flange, a 3-inch auxiliary intake port, and twin 2-inch discharge ports which permit the use of two hoses, if necessary, to reduce pressure loss when unloading into restrictive receiving systems. Capacities range from 200 to 379 U.S. gpm (757–1,476 lpm).

Maximum differential pressure for both models is 125 psi (8.62 Bar).

### Hydraulic Drive Packages

Blackmer 2-inch through 4-inch pump models are offered with complete factory engineered hydraulic drive packages. Blackmer highly recommends the use of hydraulic drive systems to maximize pump performance and extend equipment life, especially on truck mounted bobtail and transport pumps.

The Blackmer Hydrive cooler forms the heart of a hydraulic drive system, and offers up to 26 horsepower (19.4 kW) of actual heat dissipation. The Hydrive has a compact design with stainless steel. It protects the system during cold start-up, allows for remote system on/off control, and provides both system cooling and monitoring of oil filtration.

A typical hydraulic drive package includes a P.T.O., hydraulic pump, Hydrive cooler, cargo pump control valve, speed control valve, hydraulic motor, and mounting hardware. Hydraulic motor adaptor kits are also available to retrofit existing Blackmer LP gas pumps for hydraulic drive operation.

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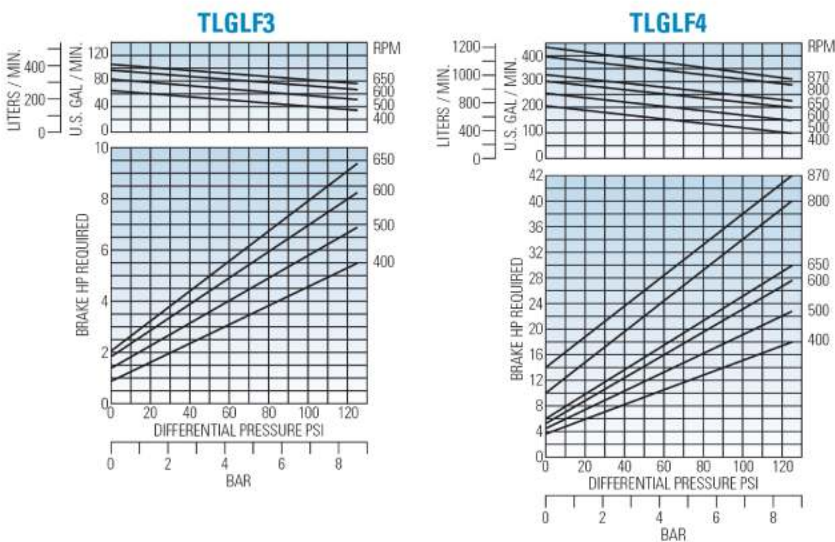
### Selection Data

Pump delivery and brake horsepower requirements are listed in the table below for various differential pressures. The same data for all pressures is provided in the performance curves below.

Standard Pump		Pump Speed RPM	Approximate Delivery of Propane at Differential Pressures and Pump Speeds Shown <sup>1</sup>												Maximum Differential Pressure		Maximum Working Pressure <sup>2</sup>	
Model	Factory Relief Valve Setting		50 PSI (3.45 bar)						100 PSI (6.89 Bar)						PSI	Bar	PSI	Bar
			GPM	LPM	BHP	KW	Torque		GPM	LPM	BHP	KW	Torque					
ft-lb	Kg-m	ft-lb					Kg-m											
TLGLF3	150 PSI (10.34 Bar)	650	93	352	5.0	3.7	40.4	5.6	81	307	7.9	5.9	63.8	8.8	125	8.62	350	24.13
		600	85	322	4.5	3.4	39.4	5.4	73	276	7.0	5.2	61.3	8.5	125	8.62	350	24.13
		500	70	265	3.6	2.7	37.8	5.2	59	223	5.7	4.3	59.9	8.3	125	8.62	350	24.13
		400	52	197	2.8	2.1	36.8	5.1	40	151	4.5	3.4	59.1	8.2	125	8.62	350	24.13
TLGLF4	150 PSI (10.34 Bar)	870	379	1,436	26	19	154	21	329	1,244	38	28	229	32	125	8.62	350	24.13
		800	350	1,325	22	16	143	20	306	1,158	34	25	223	31	125	8.62	350	24.13
		650	280	1,060	15.5	11.6	125.2	17.3	245	927	25.0	18.6	201.9	27.9	125	8.62	350	24.13
		600	260	984	14.3	10.7	125.1	17.3	220	833	23.0	17.2	201.3	27.8	125	8.62	350	24.13
		500	210	795	11.9	8.9	125.0	17.3	170	644	19.0	14.2	199.5	27.6	125	8.62	350	24.13
		400	160	606	9.5	7.1	124.7	17.2	120	454	15.2	11.3	199.5	27.6	125	8.62	350	24.13

1 Check the pump's delivery and brake horsepower requirements in the performance curves below. See footnote with the curves which explains the factors that can cause delivery to vary.  
 2 Maximum rated working pressure is 350 psi (24.13 Bar) for LPG and NH<sub>3</sub> (limited by U.L. and N.F.P.A. 58).  
 Note: Refer to back cover for external bypass valve information.

### Performance Curves



These curves are based on approximate delivery rates when handling propane or anhydrous ammonia at 80°F (26.7°C). Line restrictions such as excess flow valves, elbows, etc. will adversely affect deliveries. For propane at 32°F (0°C), actual delivery will be further reduced to about 80% of nominal. Delivery of butane at 80°F (26.7°C) will be 60% to 70% of these values, and may run as low as 35% to 45% at 32°F (0°C). This loss of delivery is not a pump characteristic but is caused by natural thermodynamic phenomena of liquefied gases.

### Companion Flanges and Flanged Elbows

Standard Pump	Standard or Optional	Discharge	Auxiliary Intake	Intake
TLGLF3	Standard	2" NPT Flanged Elbow	2" NPT Flanged	3" 300 lb. ANSI Mounting Flange
	Optional	2" NPT Flanged Elbow	2" NPT Flanged Elbow	
	Optional	2" Weld Flanged Elbow	2" Weld Flanged	
	Optional	2" Weld Flanged Elbow	2" Weld Flanged Elbow	
TLGLF4	Standard	Twin 2" NPT Flanges	Banking Flange	4" 300 lb. ANSI Mounting Flange
	Optional	Twin 2" NPT Flanges	3" NPT Flanged	
	Optional	Twin 2" Weld Flanges	3" Weld Flanged	
	Optional	Twin 2" NPT Flanges	Banking Flange	
	Optional	Twin 2" NPT Flanges	4" Weld Flanged	