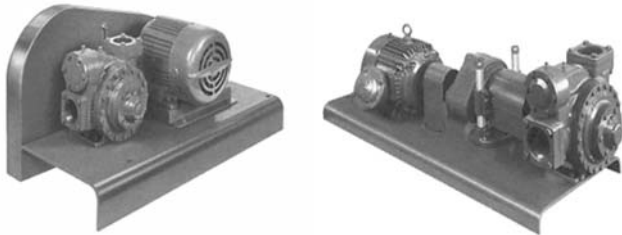




# BLACKMER PUMPS

## Blackmer NH3



Blackmer offers a full line of liquefied gas pumps and oil-free gas compressors, designed for maximum performance and reliability. From the smallest cylinder filling operation to the largest, most sophisticated bulk plant/rail car unloading system, you will find blackmer pumps and compressors operating throughout the world.

Sliding vane design is ideal for butane, propane, and anhydrous ammonia, propellants, refrigerants and similar liquefied gases. Blackmer liquefied gas pumps are widely used for cylinder filling, motor fueling, bulk transfer, vaporizers, and on bobtails and transports. Utilizing Blackmer's unique sliding-vane design, these positive displacement pumps offer the best combined characteristics of sustained high-level performance, energy efficiency, trouble-free operation and low maintenance cost.

Pump models are available in 1, 1.25, 1.5, 2, 3, and 4" port sizes. All models have ductile iron construction for thermal shock resistance and low friction ball bearings for high efficiency and quiet operation. Other design features include two-piece threaded lock collars that prevent end thrust wear, and a special cavitation suppression liner (1.5 through 4" models) for optimum performance. This feature "cushions" the effects of collapsing vapor bubbles within the pump, sharply reducing the noise, vibration, and wear normally caused by entrained vapors.

**Blackmer Positive Displacement Pumps 2" through 4"**

Assembled Pump		Pump Speed RPM (Using 1750 RPM Motor)	Approximate Delivery of Propane @ Differential Pressures and Pumps				Maximum Differential Pressure		Maximum Working Pressure		Drive Rating (Maximum Horespower Drive Will Transmit)			Motor Size for Mounting on Standard Base	
Model	Factory Relief Valve Setting		50 PSI (345 kPa)		100 PSI (689 kPa)		PSI	kPa	PSI	kPa	0-3 Hour Duty	3-8 Hour Duty	8-24 Hour Duty	Minimum Frame Size	Maximum Frame Size
			GPM	LPM	GPM	LPM									
LGLD2-VB	150 PSI (1034 kPa)	660	67	254	57	216	150	1034	350	2413	9.2	9.2	7.8	184T	213T
		520	50	189	41	155					6.4	6.4	5.4	182T	184T
		420	40	151	30	114					4.8	4.8	4.8	182T	184T
		330	30	114	23	87					3.1	3.1	2.6	182T	182T
LGLD2-HROF	150 PSI (1034 kPa)	640	65	246	55	208	150	1034	350	2413	8.9	7.1	5.7	143T	215T
		520	50	189	41	155					7.0	5.6	4.5		
		420	40	151	30	114					5.4	4.3	3.4		
		350	32	121	24	91					4.1	3.3	2.6		
LGLD3-VB	150 PSI (1034 kPa)	640	133	503	112	424	150	1034	350	2413	12.1	12.1	10.2	215T	254T
		520	108	409	84	318					8.9	8.9	7.5	213T	215T
		420	80	303	60	227					7.3	7.2	6.1	213T	215T
		330	59	223	42	159					5.4	5.4	4.5	184T	184T
LGLD3-HRA	150 PSI (1034 kPa)	640	133	503	112	424	150	1034	350	2413	25	25	20	182T	256T
		520	108	409	84	318					24.3	19.4	15.5		
		420	80	303	60	227					17.8	14.3	11.4		
		350	63	238	45	170					14.4	11.5	9.2		
LGLD4-VB	150 PSI (1034 kPa)	640	270	1022	220	220	125	862	350	2413	26.9	26.9	22.8	254T	284T
		520	220	833	180	180					19.6	19.6	16.6	254T	256T
		420	170	644	130	130					15.8	15.8	13.4	215T	254T
		330	130	492	90	90					11.4	11.4	9.8	215T	215T
LGLD4-HRA	150 PSI (1034 kPa)	640	270	1022	220	833	125	862	350	2413	25	25	20	213T	256T
		520	220	833	180	681					24.3	19.4	15.5		
		420	170	644	130	492					17.8	14.3	11.4		
		350	138	522	95	360					14.4	11.5	9.2		
LGLD4-HRB	150 PSI (1034 kPa)	640	270	1022	220	833	125	862	350	2413	30	30	26.9	182T	286T
		500	210	795	170	644						30	24		
		400	160	606	120	454						24.1	19.3		

Check the pump's delivery & brake horse power requirements in the performance curves.  
 Maximum rated working pressure is 350 psi (2413 kPa) for LPG & NH3  
 Maximum horse power that standard Drive (V-Belt/gearbox & base) will transit  
 Motors may be specified from dimension charts available from Blackmer Bulletin 501 publication.