

Lubemaster[®] Pump

DESCRIPTION

The Trabon Lubemaster is a rugged, reliable pump for use with Trabon Series Flo® divider valves to lubricate all types of machinery. It can be driven by an electric motor or a rotating or oscillating machine motion. The output is readily adjustable.

The Lubemaster is designed to pump grease or oil efficiently at a wide range of pump cycle rates and pressures. Anti-friction drive bearings and simplified design improve pump operation and reliability. Its board output range and interchangeability of drive and mounting selections makes it suitable for a wide range of applications. Optional high-pressure and low-level switches are available to provide protection against excessive system pressure and low reservoir lubricant levels.

FEATURES

- Adjustable output
- Broad output range
- Simplified construction
- Hardened steel piston in steel sleeve
- Soft-seat outlet check valve
- Modular components
- Driven by an electric motor (gear drive) or by a rotating or oscillating movement (clutch drive)

OPERATION

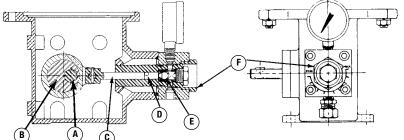
The Lubemaster piston is operated by an eccentric connected to a drive shaft. This drive shaft can be driven by the gear reducer/ electric motor drive, the clutch drive option, or directly coupled to a rotating shaft.

As drive shaft (A) is rotated, eccentric (B), also rotating, moves piston (C) forward in the power stroke, closing off inlet (D). Piston (C) continues to move the lubricant forward, unseating check valve (E) and delivering lubricant to the system. The eccentric (B), as it continues to rotate, moves piston (C) back, reopening the inlet and returning piston (C) to full prime position, ready for the next delivery or power stroke.

Pump output can be varied, from .010 to .050 cu. in. (.164 to .820 cu. cm.) per cycle, by changing the position of the pump adjustment nut (F) located below the gauge.

NOTE: The adjustment settings as marked should only be used as a reference. After the pump has been adjusted, the actual output should be measured to determine if it satisfies the system requirements.





Lubemaster pump can be driven in clockwise or counterclockwise direction.

Lubemaster Adjustment Chart							
% of Rated Output							
100	.050 cu.in. (.820 cu.cm.)	Max					
90	.045 cu.in. (.736 cu.cm.)	*1st					
80	.040 cu.in. (.656 cu.cm.)	*2nd					
70	.035 cu.in. (.574 cu.cm.)	*3rd					
60	.030 cu.in. (.492 cu.cm.)	*4th					
50	.025 cu.in. (.410 cu.cm.)	*5th					
40	.020 cu.in. (.328 cu.cm.)	*6th					
30	.015 cu.in. (.246 cu.cm.)	*7th					
20	.010 cu.in. (.164 cu.cm.)	Min					

*All marks are counting clockwise from max setting.

Trabon[®] Lubemaster[®] Pump

L12715

SPECIFICATIONS		
Pump Data		Options
Output per Stroke	0.010–0.050 cu.in. (0.16399–0.8195 cu.cm.)	Low Level (C
Cycle Rate	1–175 strokes per min	†LOA,LOB
Output Range	0.010–0.862 cu.in. (0.1619–143.41cu.in.) per min	LOE, LOF
Max Operating Pressure	5000 psi (340 bar)	High Pressu
Max Torque @ Rated Max Pressure	27 ft lbs	Switch
Motorized Pump		Oil
Gear Ratios	10:1 & 60:1 floor of wall mount	
Output Range	0.19–8.62 cu.in (3.114–141.28 cu.cm.) per min	Grease
Clutch Drive Pump		
Cycle Rate	5–150 impulses per min	Standard Blo
Degrees of Throw	12º to 60º	Indicator @
Output Range	0.100–75 cu.in (1.639–1229.25) per hr	Oil
Lubricants	Oil or Grease	0
Reservoirs		Grease
Material	Plastic or Metal	
Reservoir Capacities		
Oil	12 pint (5.68 liter) & 20 pint (9.46 liter)	
Grease	12 lb (5.44 kg) & 20 lb (9.07 kg)	
Operating Temperature		
Reservoirs		Motors (56 C-F
*Plastic	35°F to 135°F (1.66°C to 57.2°C)	
*Metal	20°F to 150°F (-6.66°C to 65.55°C)	
Oil	20°F to 150°F (-6.66°C to 65.55°C)	
Grease		
**NLGI #1	20°F to 150°F (-6.66°C to 65.55°C)	
**NLGI #2	40°F to 150°F (4.44°C to 65.55°C)	*These recomm construction of t

Options						
Low Level (Ordering Code)						
†LOA,LOB,LOC,LOH	SPDT, 15 amp @ 125, 250, 480 VAC; 1/2 amp @ 125 VDC; 1/4 amp @ 250 VDC					
LOE, LOF	SPST, 10 watts @ 120 VAC					
High Pressure Blowout Switch						
Oil	Factory set @ 1450 psi (102 kg/sq.cm.), SPDT, 15 amps @ 115, 250, 480 VAC; 125 VDC, 1/4 amp @ 250 VDC					
Grease	Factory set @ 2350 psi (165 kg/sq.cm.), SPDT, 15 amps @ 115, 250, 480 VAC; 125 VDC, 1/4 amp @ 250 VDC					
Standard Blowout Indicator @ the Pump						
Oil	Factory set @ 1450 psi (10.2 kg/sq.cm.), Yellow Disc					
Grease	Factory set @ 2350 psi (165 kg/sq.cm.), Aluminum Disc					
	115/230V 1/2 hp single phase 60 Hz 1725 RPM, T.E. Full load running current 9.0 AMPS Inrush at 115 Volts 49 AMPS; 230 Volts 24.5 AMPS					
	230/460V 1/2 hp three phase 60 Hz 1725 RPM, T.E. Full load running current 1.03 AMPS Inrush at 230 Volts 12.2 AMPS; 460 Volts 6.1 AMPS					
Motors (56 C-Face)	115/230V 1/2 hp single phase 60 Hz 1140 RPM, T.E. Full load running current 9.0 AMPS Inrush at 115 Volts 49 AMPS; 230 Volts 24.5 AMPS					
	230/460V 1/2 hp three phase 60 Hz 1140 RPM, T.E. Full load running current 1.03 AMPS Inrush at 230 Volts 12.2 AMPS; 460 Volts 6.1 AMPS					
8						

*These recommended operating temperatures are based on materials used in construction of the pump and reservoir only

**The grease must be pumpable at the lowest anticipated operating temperature

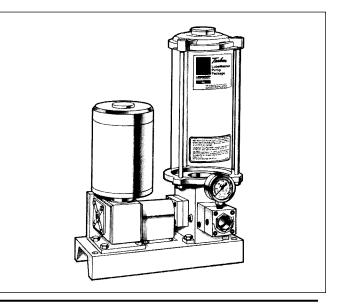
†LOH Low Level Option only Exp Proof: Class I, Group C & D; Class II, Group E, F & G

MOTORIZED Lubemaster

The rugged, compact electric motorized Lubemaster can be used with Series Flo, or reversing systems, where a continuous or time-controlled lubrication cycle is desired. This totally enclosed pumping unit is suitable for a wide range of applications — mills, mill tables, crushers, presses of all sizes, conveyors, shears, etc. The Lubemaster motor-driven pump can be wall or floor mounted. It is also the replacement for Trabon Model AKA, PME, and MP Pumps.

Theoretical Calculated Discharges of Lubemaster

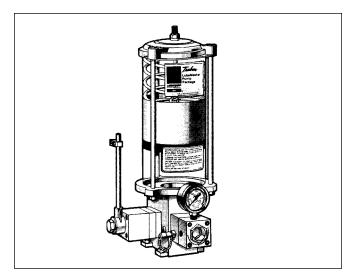
 .	-	D:1 Ratio	10:1 Gear Ratio				
Motor Speed			Min.	Max.			
1140	.19 (3.114)	.95 (15.571)	1.14 (18.685)	5.7 (93.423)			
1725	.28 (4.589)	1.48 (23.438)	1.72 (28.191)	8.62 (141.282)			



CLUTCH DRIVE Lubemaster

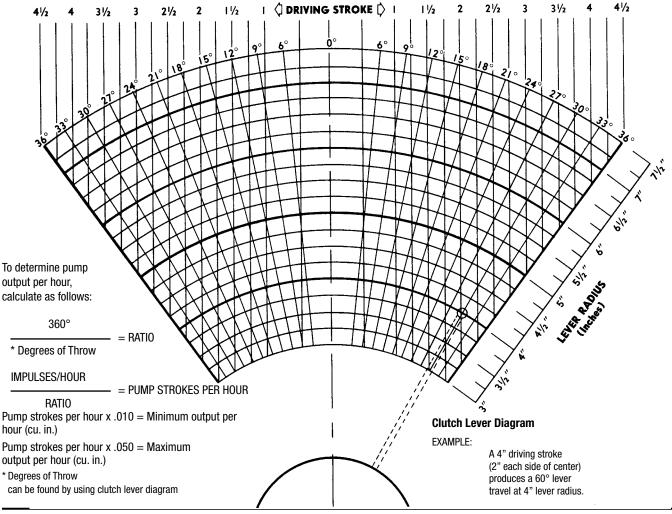
The TRABON Clutch Drive Lubemaster is a rugged, reliable pump designed to be driven mechanically by the machine being lubricated. The Lubemaster can be used with Series Progressive, Reversible or Bi-Flo systems.

This pump is ideal for use on presses, Banbury mixers, rubber mills, upsetters, heading machines, crane trolleys, etc., where ROTATING or OSCILLATING MOTION is available and continuous lubrication is desired and is the replacement for TRABON MODEL 3400 style pumps.



(Ref.) Min./Max. Pump Output Chart

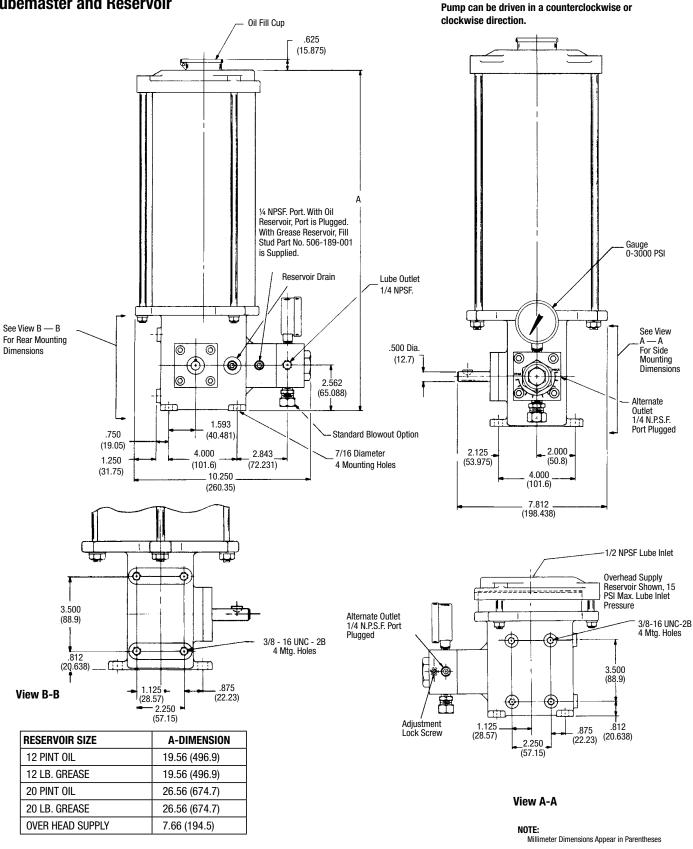
				Output Per Hour					
Degrees of Throw	Effective Ratio	Impulses Per Minute	Pump Strokes Per Hour	Minimum	Maximum				
12° 60°	30:1 6:1	5 Min. 150 Max.	10 1500	.100 cu. in. (1.639 cu. cm.) 15.00 cu. in. (245.85 cu. cm.)	.500 cu. in. (8.195 cu. cm.) 75.00 cu. in. (1229.25 cu. cm.)				



L12715

OUTLINE AND MOUNTING DIMENSIONS

Lubemaster and Reservoir



OUTLINE AND MOUNTING DIMENSIONS / continued Pre-Packaged Clutch Drive Lubemaster

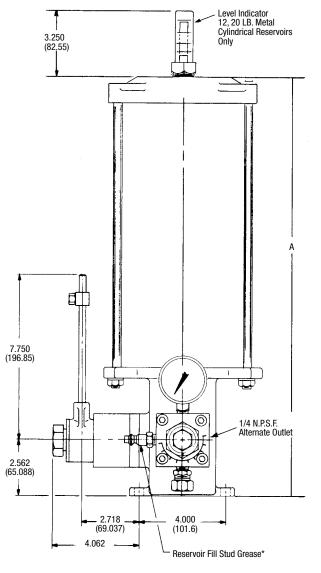
<u>12° Min.</u> 60° Max. Direction of Drive Stroke .969 .313 Dia. 7.500 Max. 3.000 Min. ً⊖ ۲ Ę 1.593 (40.481) 4.000 (101.6)

NOTE:

Millimeter Dimensions Appear in Parentheses

RESERVOIR SIZE	A-DIMENSION
12 PINT OIL	19.562 (496.875)
12 LB. GREASE	19.562 (496.875)
20 PINT OIL	26.562 (674.675)
20 LB. GREASE	26.562 (674.675)

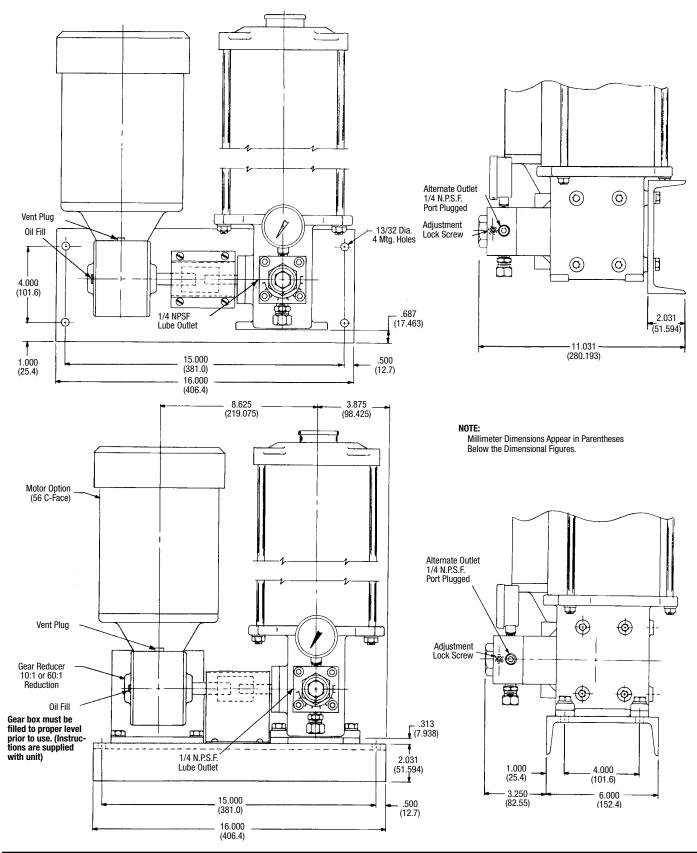
(See Lubemaster and Reservoir Outline and Mounting Dimensions on previous page for alternate Mounting Locations.)



* Mating coupler 506-322-000 order separate.

OUTLINE AND MOUNTING DIMENSIONS / continued

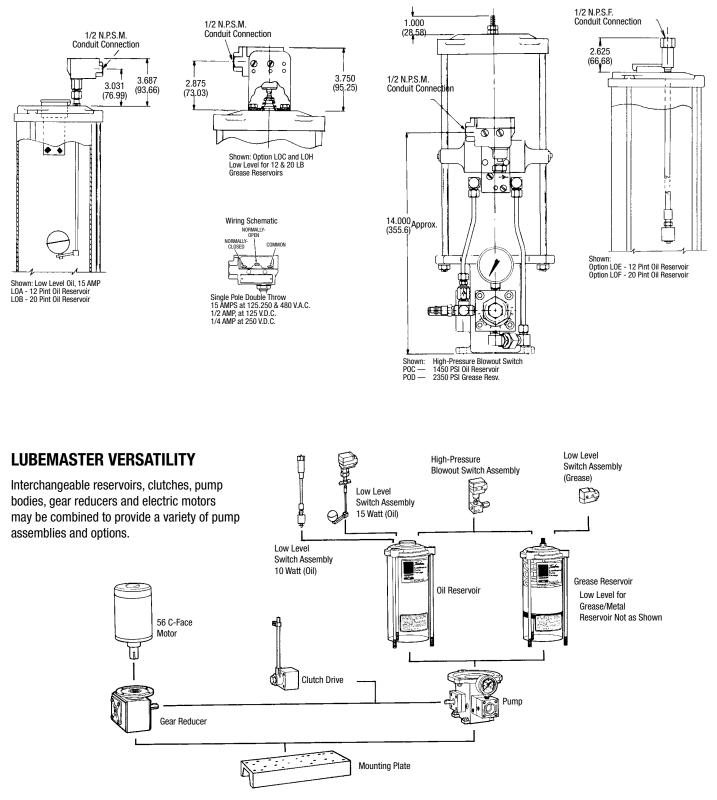
Motorized Lubemaster



OUTLINE AND MOUNTING DIMENSIONS / continued

Lubemaster Options

NOTE: Millimeter dimensions appear in parentheses.



ORDERING INFORMATION

LUBEMASTER PUMP 563380† (521-700-000) LUB -	XXX	-	ХХХ] -	XXX] -	ХХХ] -	XXX	-	XX
RESERVOIR OPTION											
OPA - 12 PINT OIL PLASTIC RESERVOIR, 562892 (185-100-380) OPB - 20 PINT OIL PLASTIC RESERVOIR, 562893 (185-100-390) OMA - 12 PINT OIL METAL RESERVOIR, 562894 (185-100-400) OMB - 20 PINT OIL METAL RESERVOIR, 562895 (185-100-410) GPA - 12 LB GREASE PLASTIC RESERVOIR, 562896 (185-100-540) GPB - 20 LB GREASE PLASTIC RESERVOIR, 562897 (185-100-550) GMA - 12 LB GREASE METAL RESERVOIR, 562898 (185-100-560) GMB - 20 LB GREASE METAL RESERVOIR, 562899 (185-100-570) OHS - 0VERHEAD SUPPLY RESERVOIR, 562908 (185-100-930)											
++DRIVE OPTION*											
DOA - CLUTCH DRIVE W/ARM, 563383 (521-700-300) DOB - 10:1 REDUCTION, FLOOR MOUNTING, 563388 (521-700-550) DOC - 10:1 REDUCTION, WALL MOUNTING, 563386 (521-700-520) DOD - 60:1 REDUCTION, FLOOR MOUNTING, 563389 (521-700-560) DOE - 60:1 REDUCTION, WALL MOUNTING, 563387 (521-700-530)											
MOTOR OPTION*					-						
MOA - 115/230V, 1/2 HP, 1 PH, 60 HZ, 1725 RPM, 557271 (492-380-040) MOB - 230/460V, 1/2 HP, 3 PH, 60 HZ, 1725 RPM, 557270 (492-380-030) MOC - 115/230V, 1/2 HP, 1 PH, 60 HZ, 1140 RPM, 557272 (492-380-240) MOD - 230/460V, 1/2 HP, 3 PH, 60 HZ, 1140 RPM, 557273 (492-380-250)						-					
LOW LEVEL OPTION*							-				
LOA - 12 PINT OIL LOW LEVEL, SPDT, 15 AMPS, 563316 (521-001-030) LOB - 20 PINT OIL LOW LEVEL, SPDT, 15 AMPS, 563317 (521-001-040) LOC - 12 AND 20 LB GREASE LOW LEVEL, 563322 (521-001-110) LOE - 12 PINT OIL LOW LEVEL, SPDT, 10 WATTS, 563015 (456-010-172) LOF - 20 PINT OIL LOW LEVEL, SPDT, 10 WATTS, 563016 (456-010-173) **LOH - 12 AND 20 LB GREASE LOW LEVEL, EXP PROOF, 564377 (521-701)	-400)										
PRESSURE INDICATOR OPTION*									-		
POA - STANDARD BLOWOUT, 1450 PSI, OIL, 563179 (509-206-100) POB - STANDARD BLOWOUT, 2350 PSI, GREASE, 563184 (509-206-160) POC - HIGH-PRESSURE BLOWOUT SWITCH, 1450 PSI, OIL, 563384 (521-70 POD - HIGH-PRESSURE BLOWOUT SWITCH, 2350 PSI, GREASE, 563385 (52	,	400)									
GAUGE OPTION											

G1 - NONE, 1/4 PIPE PLUG

G3 - 0-3000 PSI GAUGE LIQUID FILLED, 557713 (526-200-300)

*OMIT IF NOT REQUIRED

**CLASS I, GROUP C & D; CLASS II, GROUP E, F & G; SPDT, 15 AMP @ 125-480 VAC; 1/2 AMP, 125 VDC; 1/4 AMP, 250 VDC †WHEN ORDERING LUBEMASTER PUMP, PART NO. 563380 (521-700-000), A FILL STUD PART NO. 557374 (506-189-001) AND A STANDARD BLOWOUT PART NO. 563179 (509-206-100) (OIL) OR PART NO. 563184 (509-206-160) (GREASE) MUST BE ORDERED AS A SEPARATE LINE ITEM. ††DRIVE OPTIONS DOB, DOC, DOD AND DOE CONTAIN ALL REQUIRED MOUNTING HARDWARE INCLUDING MOUNTING PLATE, COUPLER, COUPLING GUARD, NUTS, BOLTS AND WASHERS.

ORDERING INFORMATION							
Description	Part No.	Old Part No.					
Pkg. of 6 Blowout Discs, Yellow, 1450 psi, Oil	563962	560-900-270					
Pkg. of 6 Blowout Discs, Aluminum, 2350 psi, Grease	563965	560-900-300					
Lubemaster Pump Repair Kits							
Seal Kit for Pump	563921	560-001-770					
Repair Kit for Clutch Drive w/arm	563383	521-700-300					
Drive Repair Kit	563915	560-001-690					
Output Manifold Repair Kit	563916	560-001-700					

Refer to Bulletin L42751 for operating and service instructions.

All written and visual data contained in this document are based on the latest product information available at the time of publication. Graco reserves the right to make changes at any time without notice.

Contact us today!

To receive product information or talk with a Graco representative, call **800-533-9655** or visit us online at **www.graco.com**.



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