



NEWSLETTER - NOVEMBER 2021

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Graco Husky™ Electric Operated Double Diaphragm Pumps

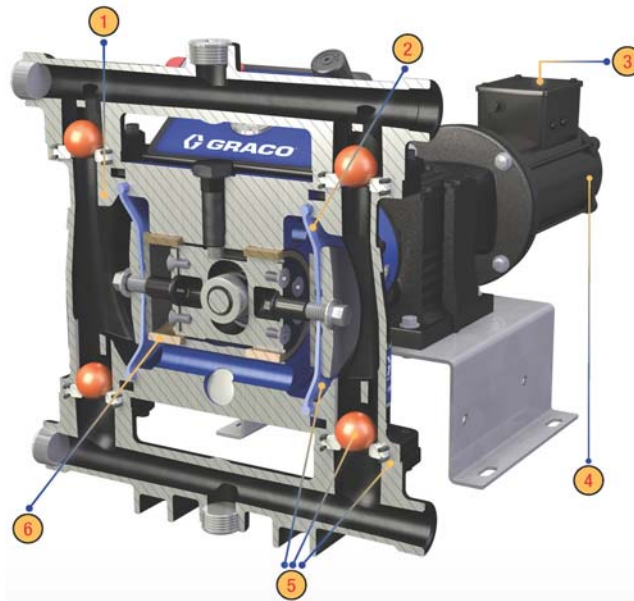


Would you like to eliminate unnecessary pump failures for your application? Would you like to improve your facilities energy efficiency and create a quieter and cleaner work environment for your employees? Graco's Husky e-Series pump will help you achieve all of those items!

This electric operated pump was developed to offer an electric alternative and designed to operate exactly the same as an air-operated pump.

Features and benefits:

- Energy efficient electric drive reduces energy consumption up to 5x compared to traditional air operated diaphragm pumps
- Patent pending technology allows pump to stall under pressure preventing pump failures from clogged lines or closed valves
- Seal-less diaphragm pump design eliminates leaking and failures due to run-dry pump conditions.
- Ideal for applications that require low pulsation and a smooth flow. The air charged drive allows for the elimination or reduction of pulsation without expensive pulsation dampeners or surge tanks.



1 - Durable Pump Technology

- Handles slurries and abrasives all without damage to the pump
- Gentle on shear sensitive material

2 - Diaphragm Pump

- Runs dry
- No rotating or moving fluid seals
- Self-priming

3 - Electric Drive

- Reduce energy consumption and operating costs

- Increase pump control
- Accurately meter fluid

4 - Motor Options

- Operate on 120v, 240v or 480v power
- Available in AC or Brushless DC
- Hazardous location motor options available

5 - Fluid Section

- Create the pump you need with multiple material offerings for manifolds, seats, balls, and diaphragms

6 - Patent Pending Air Charged Drive

- Increase diaphragm life without compromising your fluid
- Ability to reduce pulsation on fluid outlet
- Stalls under pressure without additional switches and controls.

Technical Specifications:

- Max fluid working pressure 70 psi (4.8 bar, 0.48 Mpa)
- Air pressure operating range ... 20 to 80 psi (1.4 to 5.5 bar, 0.14 to 0.55 MPa)
- Air inlet size 3/8 in npt(f)
- Max suction lift* Wet: 29 ft (8.8 m); Dry: 16 ft (4.9 m)
- Max size pumpable solids 1/8 in (3.2 mm)
- Ambient air temp range
- for operation & storage** 32°F to 104°F (0°C to 40°C)
- Fluid displacement per cycle 0.15 gallons (0.64 L)
- Max free-flow delivery 42 gpm (158 lpm)
- Max pump speed 280 cpm
- Fluid Inlet & outlet Size
- Aluminum & stainless steel 1 in npt(f) or 1 in bspt
- Polypropylene 1 in ANSI/DIN Raised Face Flange
- AC motor power 2 HP
- BLDC motor power 2.2 HP
- Operation manual 334188

Traditional Air-Operated Diaphragm Pumps by Lincoln



Model 85627



Model 85634

Rugged and dependable, diaphragm pumps are great tools designed for transferring everything from water, to new/used oil to thick slurry. Cost effective and environmentally friendly, they are effective in many applications.

Lincoln diaphragm pumps are driven by compressed air.

The directional air distribution valve and pilot valve - the "air end" - are located in the center section of the pump. Liquid moves through two manifolds and outer chambers of the pump - the "wet end". Generally, check valves are located at the top and bottom of each outer chamber or on a common manifold. The two outer chambers are connected by suction and discharge manifolds. Lincoln's double diaphragm self-priming design offers many advances over other pumps.

Features and benefits:

- **Pump abrasive and sheer-sensitive materials.** Low interval velocities move abrasives easily with no damage. Gentle pumping action does not shear fragile materials.
- **Pumps viscous materials.** Even heavy or solids-laden materials can be pumped.
- **Environmentally friendly.** No motors, seals or packing to leak.
- **Self-priming.** Able to dry prime under most suction lift or flooded suction conditions.
- **Variable flow.** Regulate the inlet air supply to adjust flow.
- **Runs dry without damage.**
- **Deadheads against closed discharge.** Excessive back pressure stops operation without damage until discharge opens. Eliminates bypass systems or relief valves.
- **Explosion-proof.** Eliminates sparking concerns of other electrical or rotating pumps.

Technical Specifications:

- Description: 1:1 Air-operated diaphragm pump
- Pump body: Aluminum
- Wetted or soft parts: Buna-N
- Size: 1" air inlet/outlet NPT
- Air inlet: 1/2" NPT
- Free delivery: 45 gallons (170.3 liters) per minute
- Element Particle Size: 1/4" (6.35 mm)

Model 85627

- Maximum pressure: 125 psi (8.6 bar)
- Applications: New/used oil, AF

Model 85634 - UL Listed

- Maximum pressure: 50* psi (3.45 bar)
- Applications: Used oil, diesel, kerosene

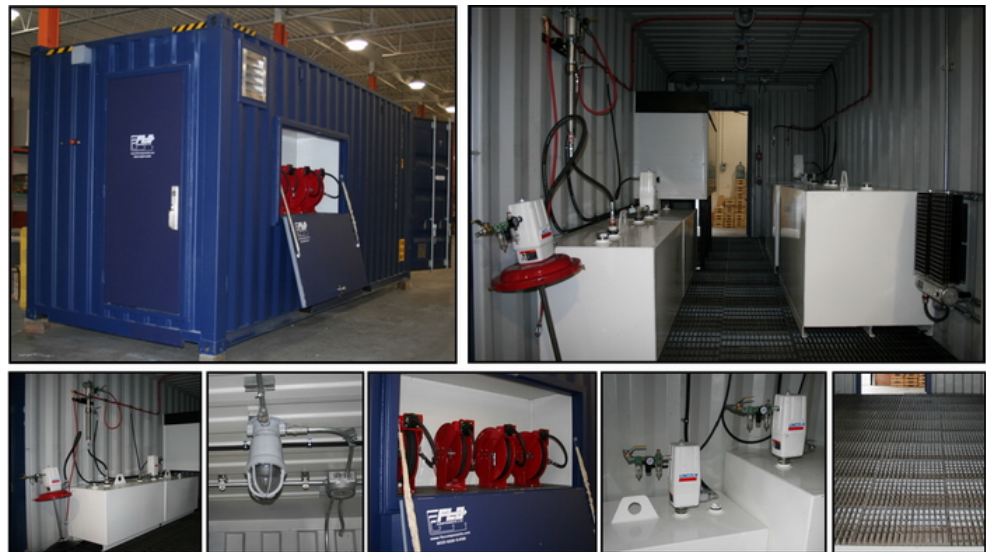
Lincoln How To Video: My grease gun does not dispense. What do I do?



This short video covers the primary cause of grease gun dispensing failures. Contamination and grease deterioration! Here is what you need to know to get back up and running.

Watch the [Lincoln video on how to service a grease gun that won't dispense.](#)

CASE STUDY: Portable Lube Building



Management at this steel mill realized that a significant amount of time was wasted by lube technicians walking to and from the single existing lube room on one end of the large building. They were looking to set up a new lube room, but didn't want to use any of the limited space inside the building. They approached FLO to design a complete lube room inside a shipping container that could be situated outside the mill.

FLO's designed Lube Building incorporated a steel, high cube 20' shipping container with an exterior 3' x 7' metal door and double end doors for the storage area. It included a containment floor with removable bar grating to ensure spill containment in the event of a tank leaking or spillage during filling. All lights, receptacles and light switches were explosion proof and the externally mounted electric entrance box Nema water proof.

The final solution design included:

- 1 Grease Handling Station for 120lb kegs, with an air-operated chassis pump package with air regulator, filter, lubricator and gauge, and a heavy duty "Grease" hose reel with 50' of high pressure hose.
- 3 Bulk Lube Oil Stations (coolant, transmission, engine oil), each with a steel tank, with either a SS stub pump or 5:1 air-operated pump package with air regulator, filter, lubricator and gauge, and a heavy duty hose reel with 50' of medium pressure hose. Each tank also had a level indicator and being double-walled, was vacuum monitored.

- 1 Bulk Lube Oil Station for gear oil, with a double-walled, vacuum monitored steel tank, and a 5:1 air-operated pump package with air regulator, filter, lubricator and gauge. A bulk connection line runs from the fill port of the gear oil tank, to the outside of the lube building wall, to be able to fill the tank directly from delivery trucks. Delivery lines take gear oil several meters from the tank, to a central location for filling gear boxes inside the actual facilities.

FLO Results:

Installing the system was a relatively quick and simple matter of shipping in the completed container and connecting up the lube lines and utilities. The mill was able to improve efficiency by adding the new lube building, without using up valuable space in the facility. Having a complete portable lube building also gives the company the option to easily relocate it to a different place inside or outside the building if they are reorganizing the facilities in the future or even to a separate location if required.

About *FLO Components Ltd.*



For over thirty years, leading manufacturing companies in a wide range of industries have depended upon FLO Components' turnkey lubrication "Solutions" to reduce unscheduled downtime and improve productivity. In addition to customized systems, equipment & lubricants, FLO Components' "Solutions" include system design, scheduled on-site maintenance plans, personnel training lubrication audits, in-house and on-site service and on-site

installation.

For more information on FLO's systems or any of our Lincoln or other brand products offerings, please contact our Customer Service Department TOLL free at (800)668-5458, locally at (905)671-2355 or visit our web site at www.flocomponents.com.

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