

TopDrive™ Piston Pumps



Flexible Options for Drive, Depth Setting and Flow

This versatile system offers the most flexible pumping setup for every landfill and cleanup pumping need. Designed for reliable, high-performance pumping of almost any fluid under the most difficult operating conditions, Top-Drive™ piston pumps allow for substantial flexibility in depth setting, drive and flow options.

There are no down-well pneumatic lines or electric motors, and the mechanism provides an optimal blend of power, reliability and efficiency. A compact cylinder stroke results in greater efficiency and lower air or power consumption. Unique bearing design and durable

seals deliver longer lifespan with simple installation and maintenance.

Key Advantages

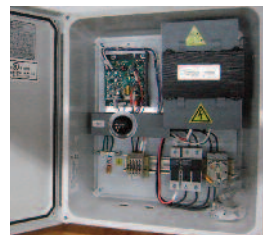
- 100% interchangeable drive assembly, switches from top drive solar or electric to pneumatic without removing the well seal.
- Pumps can be upgraded to a higher flow rate with only a change of the lower assembly.
- The intake design of the lower pump requires minimal liquid level to operate; pumps can run dry with nominal impact on long term performance.



Adjustable drop assembly has 5 and 10 foot sections, optimizing pump inlet depth.



Patented well seals provide unsurpassed rigidity; customizable port options meet site specific needs.

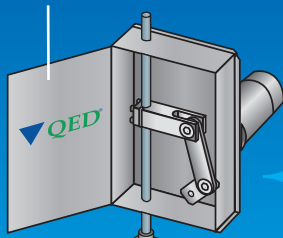


Custom control panels offer level alarms, on/off, timers, beacons and other key parameters.



Interchangeable Drive Heads

Electronic Drive Assembly Shown



3/4" NPT Discharge

Well seal

Drop assembly

5 ft.

10 ft.

Lower pump assembly

Solar Pump Head



- **Easily Implemented** – Eliminates the infrastructure required for pneumatic or electric pumping systems.
- **Flexible** – System design allows flexibility in pump operation based on site specific environmental and operational conditions.
- **Environmentally friendly** – Pumping alternative reduces operational costs and improves green image.
- **Top quality** – Manufactured with industry standard, highest grade materials.
- **Easy service & installation** – Minimal tools and personnel required; most serviceable components are located above the well-head for easy access instead of pulling submerged pumps.

Electric Pump Head



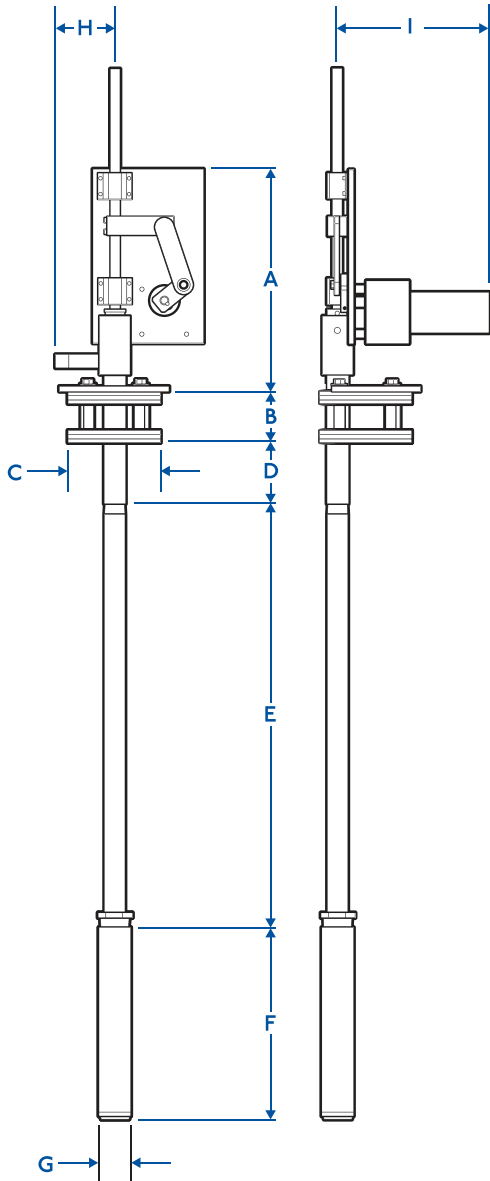
- **Unsurpassed control options** - Explosion-proof, brushless motors available. Low power requirements.
- **Proven track record** – 24/7/365 operation with millions of uninterrupted operating hours in extreme climates.
- **Top quality** – Manufactured with industry standard, highest grade materials.
- **Easy service & installation** – Minimal tools and personnel required; most serviceable components are located above the well-head for easy access instead of pulling submerged pumps.

Down-Well Pump Choices



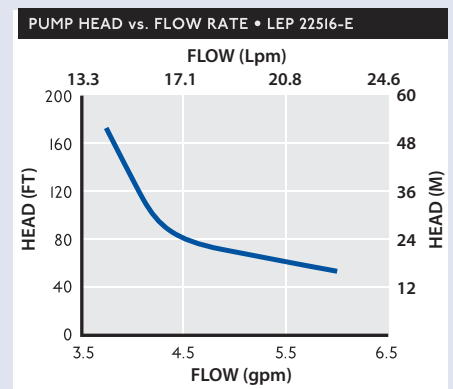
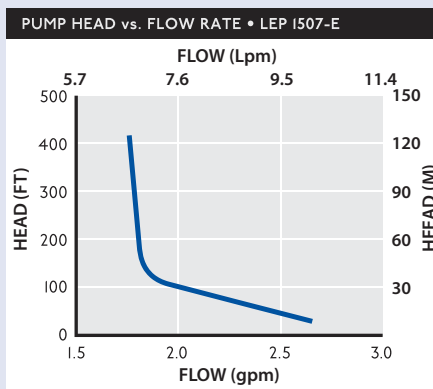
- **Low draw intake** – Intake design requires minimal liquid level to operate.
- **Two sizes** – Interchangeable Standard and High Flow models are available.

Solar and Electric TopDrive™ Pumps



Dimensions

Pump Head Height	A	17.9" (45.5 cm)
Well Seal Insertion	B	4.0" (10.2 cm)
Well Seal Diameter	C	7.5" (19.0 cm)
Drop Tube Connector	D	5.0" (12.7 cm)
Drop Tube Length	E	5 or 10 ft. (1.5 or 3 m) sections up to maximum pump head
Lower Pump Length	F	15.5" (39.4 cm)
Piston Cylinder Diameter	G	
LEP 1507-E		1.75" (4.45 cm)
LEP 22516-E		2.5" (6.35 cm)
Width at Discharge	H	4.8" (12.2 cm)
Standard Motor Depth (Optional Models Vary)	I	12.3" (31.2 cm)



Solar Pumps

Pump Model	Standard Solar Pump	Max. Head ft (m)	Flow Range gpm (Lpm)	Motor Ratings (HP)	Power Requirements
LEP 1507-S	Solar	200 (61)	1.8 - 2.5 (6.81 - 9.46)	0.2	12-24v DC
LEP 22516-S	Solar	160 (49)	4.0 - 6.0 (15.14 - 22.71)	0.33	12-24v DC

Electric Pumps

LEP 1507-E	Single	400 (122)	1.8 - 2.5 (6.81 - 9.46)	0.33	120/208/240 1ø - 50/60 Hz
	3-Phase	400 (122)	1.8 - 2.5 (6.81 - 9.46)	0.33	208/230/440/600 1ø or 3ø - 50/60 Hz
LEP 22516-E	Single	160 (49)	4.0 - 6.0 (15.14 - 22.71)	0.33	120/208/240 1ø - 50/60 Hz
	3-Phase	160 (49)	4.0 - 6.0 (15.14 - 22.71)	0.33	208/230/440/600 1ø or 3ø - 50/60 Hz

Components

LP-EB-ASSBLY_120V	Electric Drive Assembly
LP-EB-ASSBLY_12V	Solar Drive Assembly
LP-PH-ASSBLY	Pump Head Assembly
LP-DA-ASSBLY_5FT	Drop Assembly 5'
LP-DA-ASSBLY_10FT	Drop Assembly 10'
LP-LP150-ASSBLY	Standard Lower Pump
LP-LP225-ASSBLY	High Flow Lower Pump
xxx-x-WCA	Well Seal Assembly

The 150 and 225 series pump have a discharge pipe size of 3/4" (1.9 cm) NPT, a **minimum** nominal pipe size for well casing (inches) of 4" without gas extraction, and 6" with gas extraction; 8" (20.3 cm) and other custom sizes are available. Max temperature for both are 212°F/100°C, and includes a speed stroke control.

Controls Standard

Nema 4x enclosure with cover interlocked disconnect switch, overload contactor. All panels are SCA/UL approved and manufactured in an ISO 9001 certified facility.

Control Options

- On-off cycle timers, wireless interface (operation and status), GFI protected heat trace circuit.
- Variable speed can be provided with custom motor selection.
- Step down transformers and control circuits as required.

Other Options

Solar system sizing is done to meet site specific environmental and run time conditions.

Materials

In-well components are fabricated from stainless steel or PVC, and feature Buna-N seals. These materials provide the best corrosion resistance possible. Above-ground components are fabricated from stainless steel, 6061-T6 aluminum and PVC. All fasteners are stainless steel for maximum corrosion resistance. High temperature and chemical resistant options are available.

Warranty

Each leachate pump comes with a no-hassle 2-year warranty against manufacturers' defects.