

Liberty Pumps®

Engineered **Products**

Wastewater

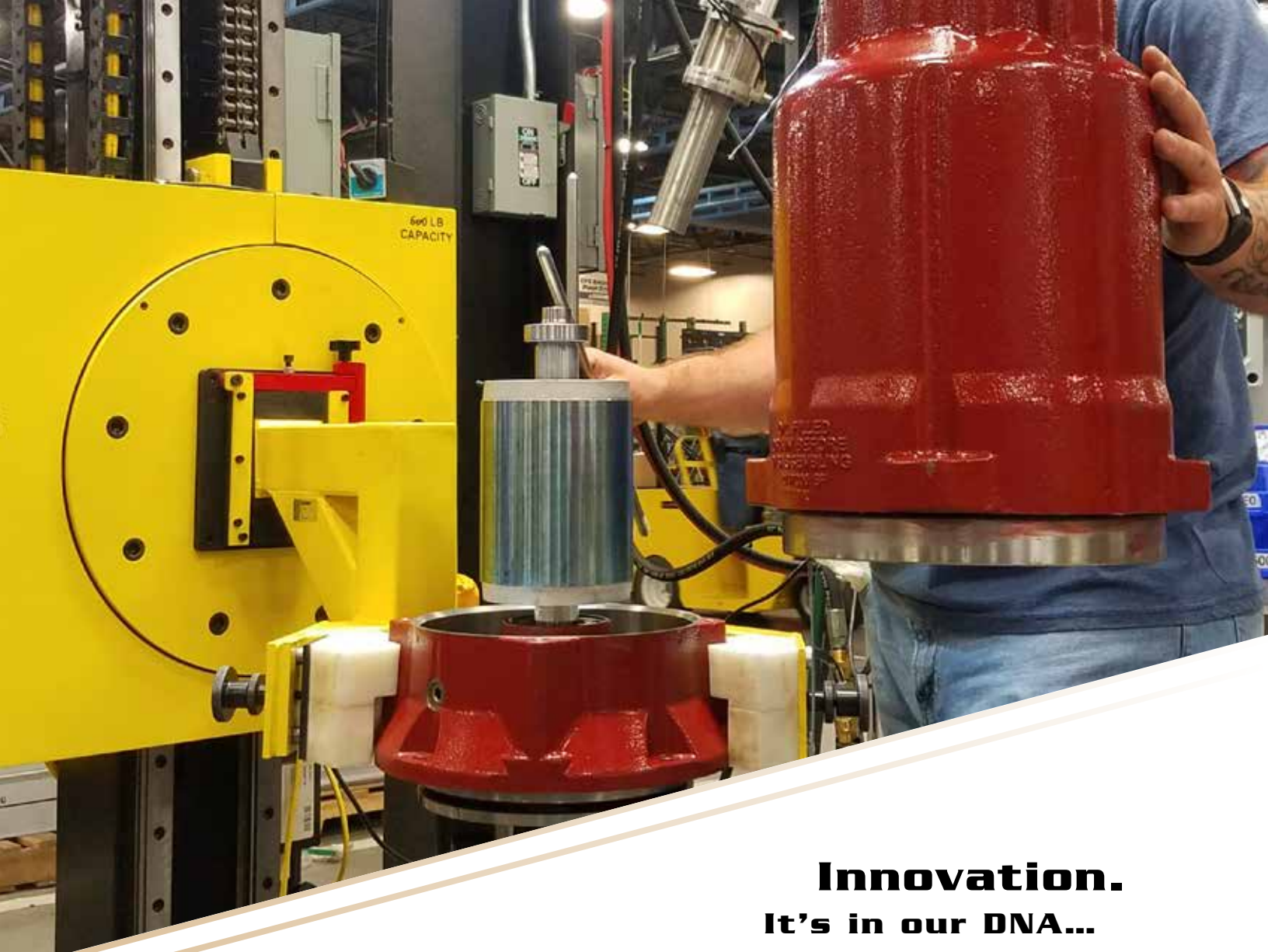
Commercial

Municipal

Industrial



A Family and Employee Owned Company



Innovation. It's in our DNA...

For over 50 years, Liberty Pumps has been innovating pump designs in a company culture that cultivates a passion to provide the best service and quality possible to our customers.

As a privately held, family and employee owned US manufacturer, Liberty Pumps has been recognized as a multi-year recipient of the prestigious Inc. 5000 Award, an award granted to the fastest growing privately held companies in the US.

As part of our continued expansion, we are now proud to bring the newest line of US manufactured pumps to the commercial, municipal, and industrial wastewater markets. Designed, built, and backed by the same employee owners that have made us who we are today.

It's what we do. It's in our DNA...

**Proudly engineered and built
in the USA!**

A Family and Employee Owned Company

Innovative design. Quality components.

Dual Seal Product Features

Potted epoxy cord entrance or optional Quick-connect designs

Streamlined terminal block for internal wiring

VFD compatible designs with shaft grounding brush

Class H inverter duty insulation

NEMA® IE3 Premium Efficiency motor construction

Durable powder coat finish

MidTherm™ Cooling

Provides enhanced motor cooling by increasing the volume of oil and expanding it into the mid-chamber of the pump, allowing it to be cooled by the pumped media. Available on all dual-seal pump designs

Robust bearing system sized for minimum 100,000 hr B10 bearing life

Multiple seal material options available

ClearNotch™ Technology

Engineered material relief notches on both the impeller and volute act together to shear and clear material that could lodge between the outer impeller edge and volute. This unique design greatly reduces the potential for jamming.

A standard feature on all Vortex, Monovane and 2-Vane designs.

Available Wet Ends



Vortex



Monovane



Enclosed 2 Vane



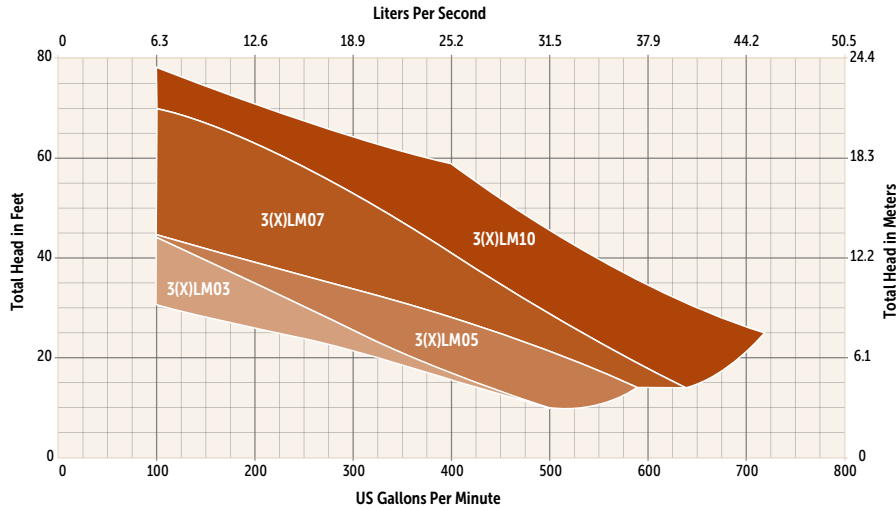
Grinder
V-Slice
Cutter Technology

60 Hz Operating Ranges

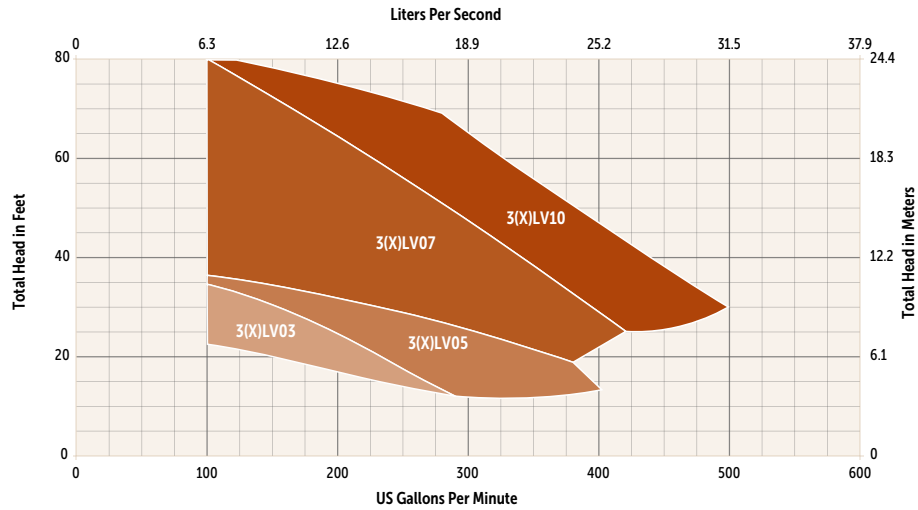
3" Solids Handling

Liberty Pumps LM, LV or LE-Series pumps, with **ClearNotch™** impeller technology and efficient **MidTherm™** cooling, provide reliable, robust performance with less jamming. Engineered with a high-level of operating efficiency and NEMA® IE3 Premium Efficiency motor construction, the Liberty Pumps line of US made submersibles offer lower operating and maintenance costs over the long-term.

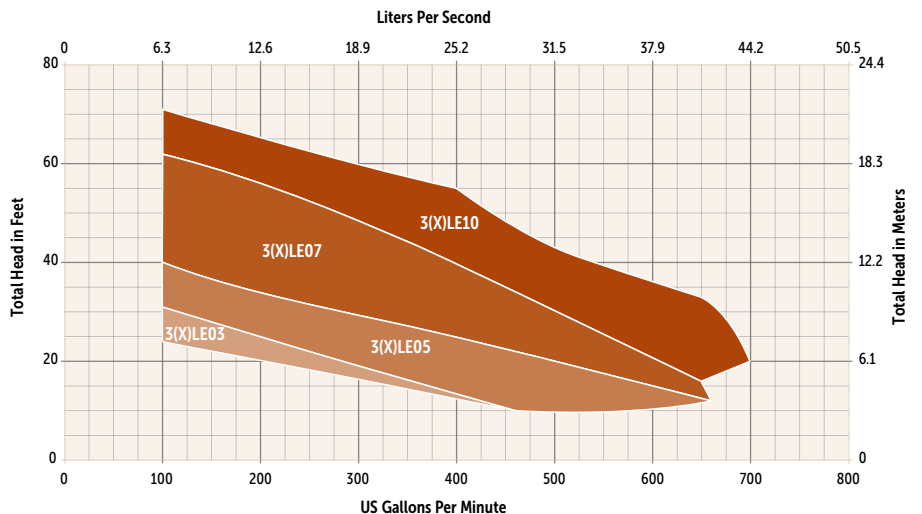
3LM/XLM Monovane



3LV/XLV Vortex

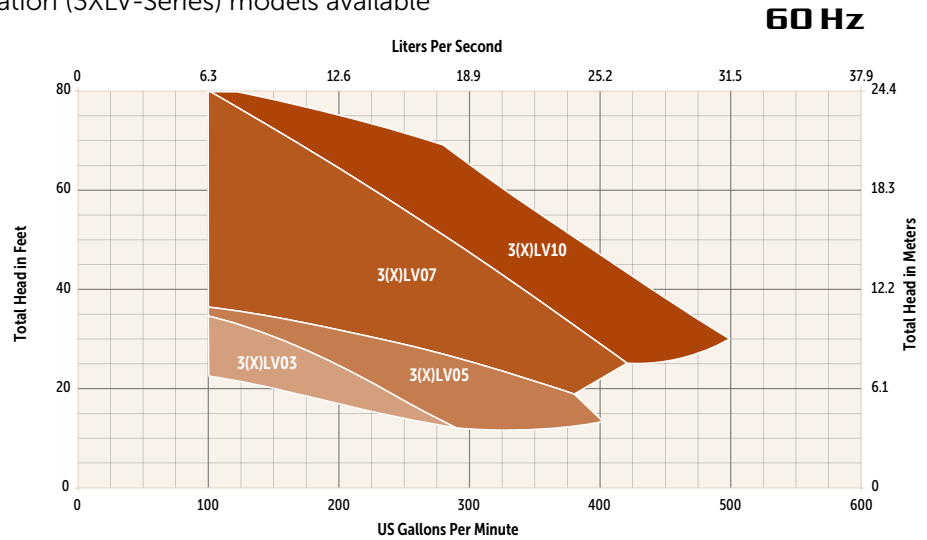


3LE/XLE Enclosed 2 Vane



Vortex 3LV and 3XLV Series

- Range: 3 hp thru 10 hp (2.2 kW thru 7.5 kW)
- 3" solids handling
- 4" ANSI® flange
- **ClearNotch™** technology reduces jamming
- VFD compatible design
- NEMA® IE3 Premium Efficiency motor construction
- **MidTherm™** advanced cooling
- Ordinary location (3LV-Series) and hazardous location (3XLV-Series) models available

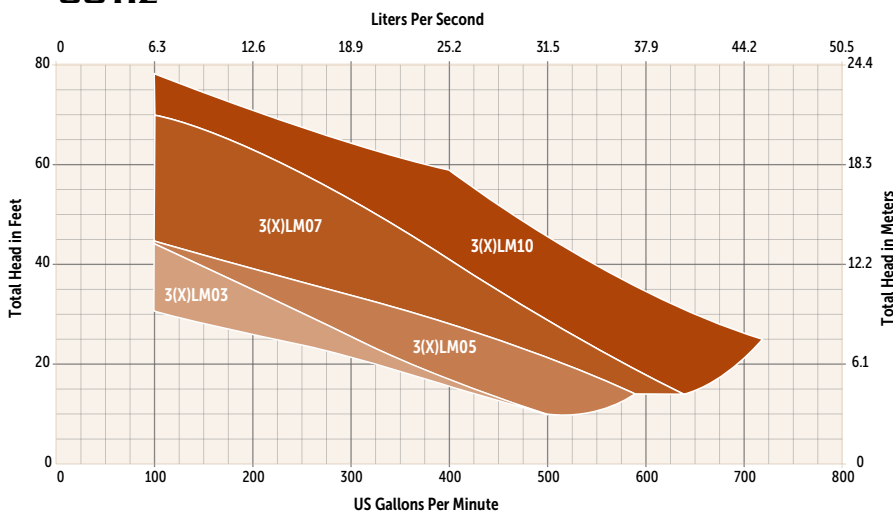


3LM and 3XLM Series Monovane

- Range: 3 hp thru 10 hp (2.2 kW thru 7.5 kW)
- 3" solids handling
- 4" ANSI® flange
- **ClearNotch™** technology reduces jamming
- VFD compatible design
- NEMA® IE3 Premium Efficiency motor construction
- **MidTherm™** advanced cooling
- Ordinary location (3LM-Series) and hazardous location (3XLM-Series) models available



60 Hz

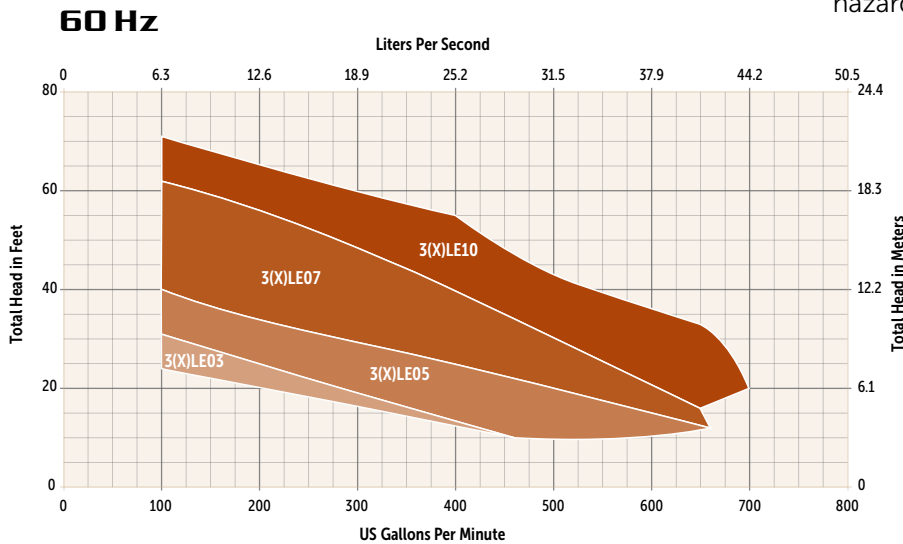


3LE and 3XLE Series

Enclosed 2 Vane



- Range: 3 hp thru 10 hp (2.2 kW thru 7.5 kW)
- 3" solids handling
- 4" ANSI® flange
- **ClearNotch™** technology reduces jamming
- VFD compatible design
- NEMA® IE3 Premium Efficiency motor construction
- **MidTherm™** advanced cooling
- Ordinary location (3LE-Series) and hazardous location (3XLE-Series) models available



GR3/GR4-Series

Guide Rails

Mid Support Bracket



- Class 25 heavy cast iron construction
- Sized for 2" rail pipes (not included)
- Durable nitrile sealing grommet
- Upper cast iron rail support and mid support bracket included
- Powder coated for corrosion resistance
- Available in 3" and 4" ANSI®
- Maximum pump weight 750 lbs (340 kg)

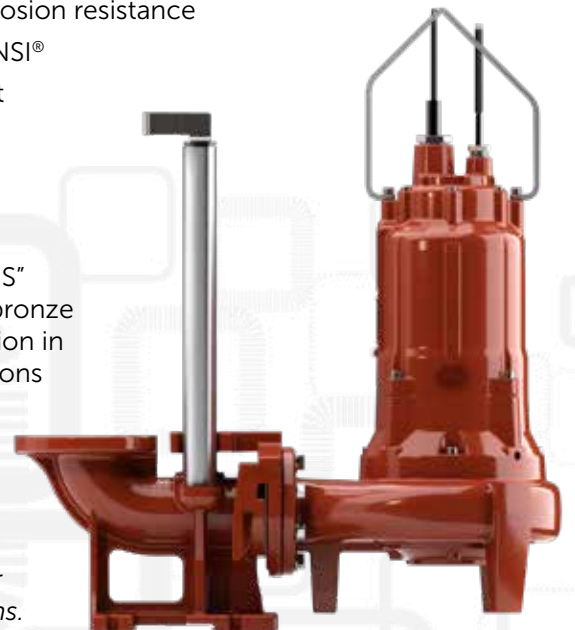


Non-sparking "NS" models feature bronze claw for installation in hazardous locations

Models

GR3-ANSI	3" ANSI®
GR4-ANSI	4" ANSI®
GR3NS-ANSI	3" ANSI®, Non-sparking
GR4NS-ANSI	4" ANSI®, Non-sparking

Consult GR-Series literature for complete product specifications.



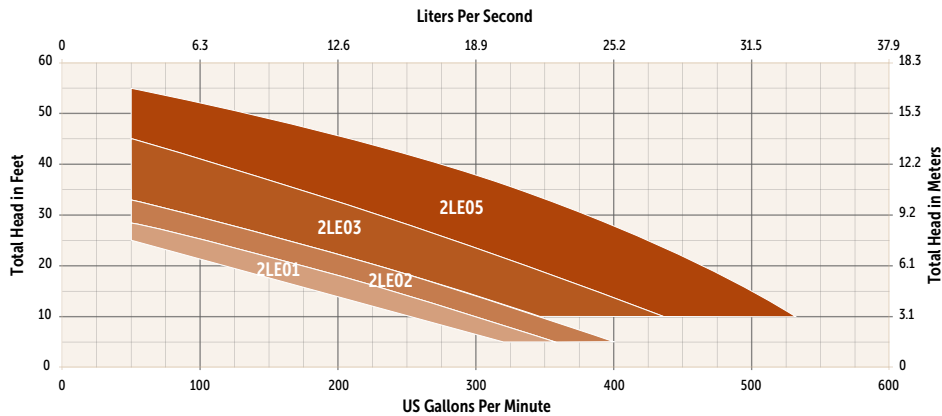
1.5-5 hp Single Seal Models

2LE-Series

- 1.5 hp thru 5 hp (1.12 kW thru 3.7 kW)
- 2.5" solids handling
- Single seal design
- Open 2-vane impeller
- 3" ANSI® flange
- Quick-connect power cord (standard)



60 Hz

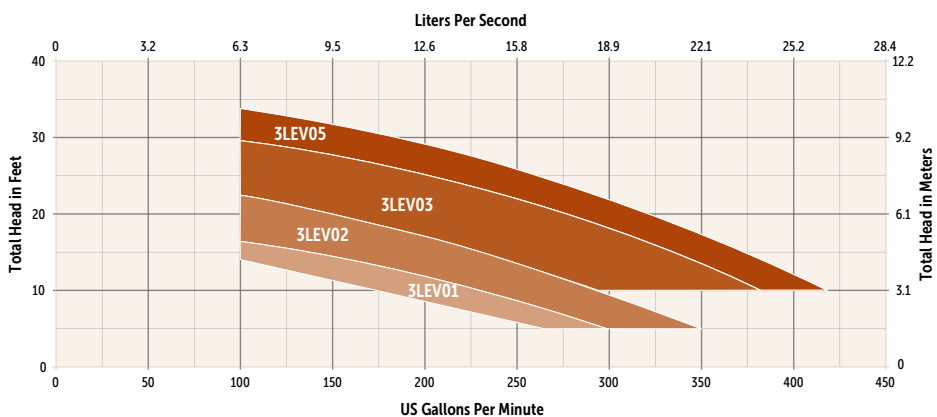


3LEV-Series

- 1.5 hp thru 5 hp (1.12 kW thru 3.7 kW)
- 3" solids handling
- Single seal design
- Vortex impeller
- 4" ANSI® flange
- Quick-connect power cord (standard)



60 Hz



2.5 hp Grinder (1.9 kW)

Ordinary Location

LGV02-Series High Volume
 LGH02-Series High Head

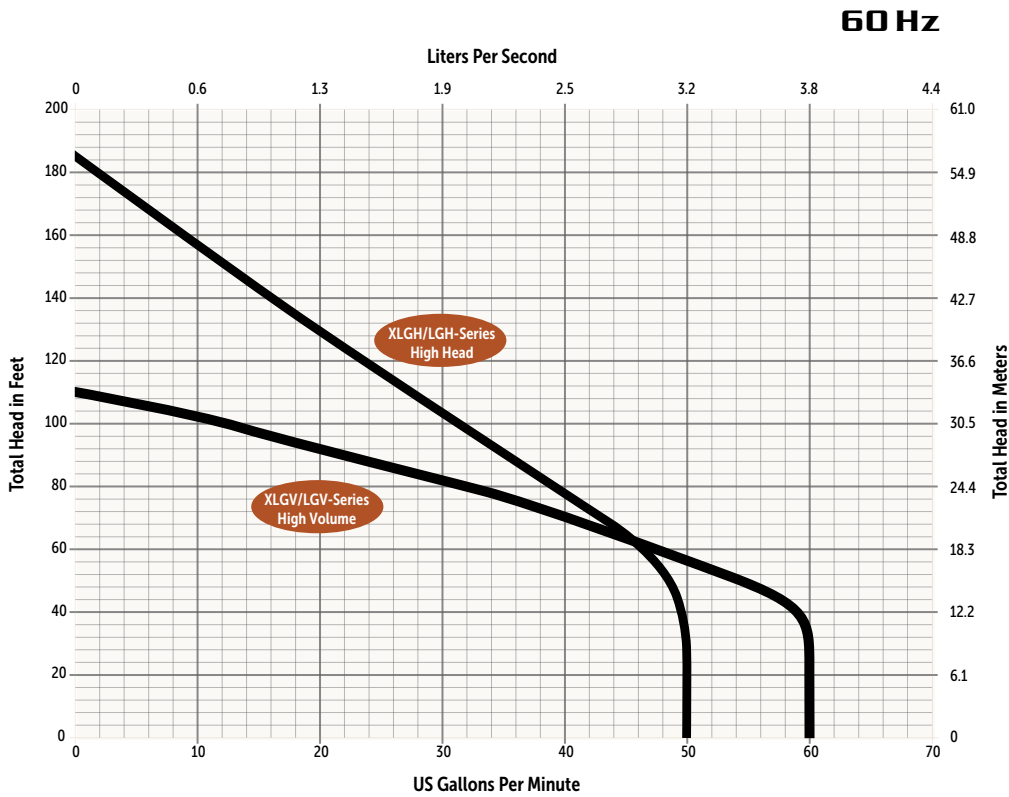
Hazardous Location

XLGV02-Series High Volume
 XLGH02-Series High Head

Class 1, Division 1, Groups C, D T4
 Class 1, Zone 1, Groups IIA, IIB T4



- V-Slice® Cutter Technology
- Stainless steel impeller and cutter system
- Quick-connect power cord (ordinary location only)
- Fits GR20-Series guide rail system

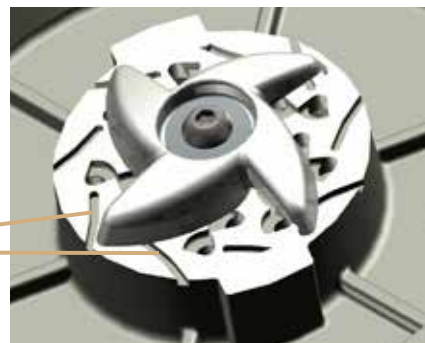


Patent: See www.LibertyPumps.com/LEP/patents

Patented V-Slice® Cutter Technology

Superior cutting system provides improved shredding performance over radial cutters. V-pattern provides up to 108 alternated cuts per revolution. Entire cutting system made of 440 stainless steel hardened to 58Rc.

Exclusion cleanout slots and back relief clear debris from under cutter



LG-Series Omnivore® Grinders

When jamming is simply not an option.

For over 10 years, Liberty Pumps Omnivore® Series grinders have lead the 2 hp category in performance and durability with their patented V-Slice® Cutter Technology. This robust and powerful design is now available in models as large as 15 hp. When demanding applications require more volume and the most powerful cutting system available, there is only one choice. Omnivore® Grinders.



- Range: 3 hp thru 15 hp (2.2 kW thru 11.2 kW)
- Available in high-volume or high-head models
- Ordinary or hazardous location models
- 2.5" and 3" ANSI® horizontal discharge or 2" and 3" NPT vertical discharge options
- Dual seal design with seal fail sensor
- Fits GR3-Series guide rail system
- **MidTherm™** advanced cooling
- VFD compatible design
- NEMA® IE3 Premium Efficiency motor construction



Patent: See www.libertypumps.com/LEP/patents

Patented
V-Slice®
Cutter Technology

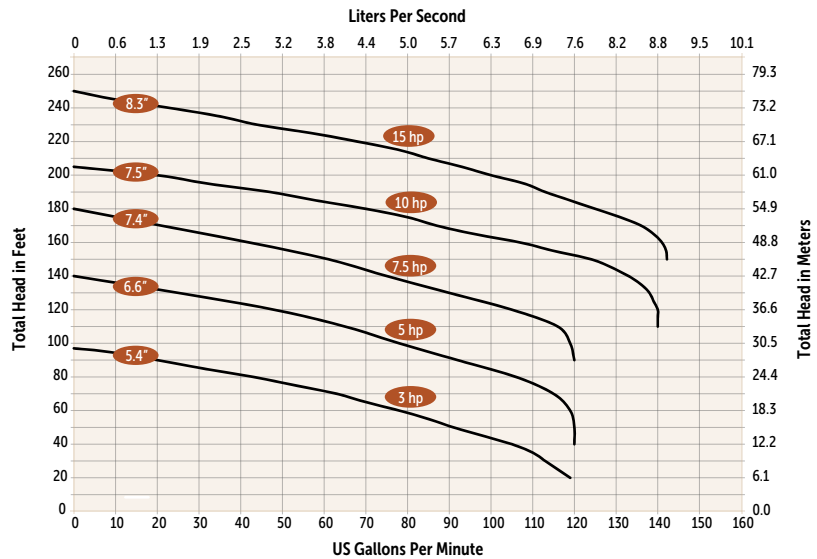
Entire cutting system made of 440 stainless steel hardened to 58Rc.



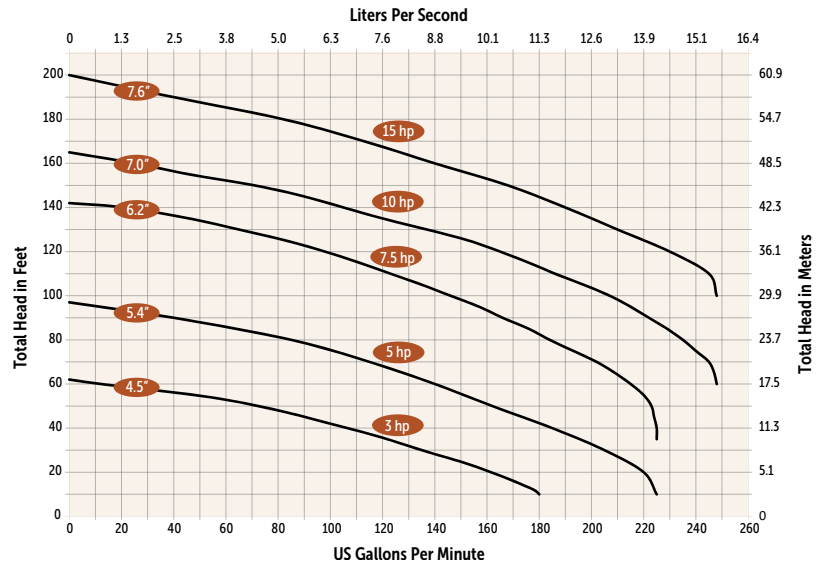
Optional 2"/3" vertical discharge



LGH High-Head 60 Hz



LGV High-Volume 60 Hz



Consult LG-Series literature for complete product specifications.

Control Panels

- Available in fiberglass or stainless steel enclosures
- Wide array of options and custom builds available



Fiberglass Series

Ordinary Location

- LES-Series Simplex
- LED-Series Duplex

Hazardous Location

- LESX-Series Simplex, intrinsically safe
- LEDX-Series Duplex, intrinsically safe



Stainless Steel Series

Ordinary Location

- LESS-Series Simplex
- LEDS-Series Duplex

Hazardous Location

- LESSX-Series Simplex, intrinsically safe
- LEDSX-Series Duplex, intrinsically safe

Standard Features Include:

- H-O-A switches
- Auxiliary contacts
- Adjustable overloads
- NEMA® 4X
- Inner panel door
- Seal fail indicators
- Thermal overloads
- Elapsed time meters
- Lockable door
- Alarm beacon

Capacitor kit sold separately (1-phase only). Consult LED or LES literature for complete panel information.

Complete Systems

Liberty Pumps has the ability to design complete custom systems for your specific application. With almost unlimited choices in basin and control panel options, simply tell us your needs and our team will get you the answers fast. Complete fabrication of the system internals assure that you get it right - factory set and ready to install.

1-800-543-2550



LEP-Link™

Remote Pump Monitoring

LLINK-100

Base Model Remote Monitoring Panel

- NEMA® 4X enclosure
- Install with new or existing controllers
- Up to four digital inputs for alarms and pump monitoring
- Pump status viewable through web browser
- Internal battery backup

LLINK-200

Advanced Remote Monitoring Panel

- Includes base model features
- Allows two analog inputs for current sensor (included) or 4-20mA transducer (sold separately)

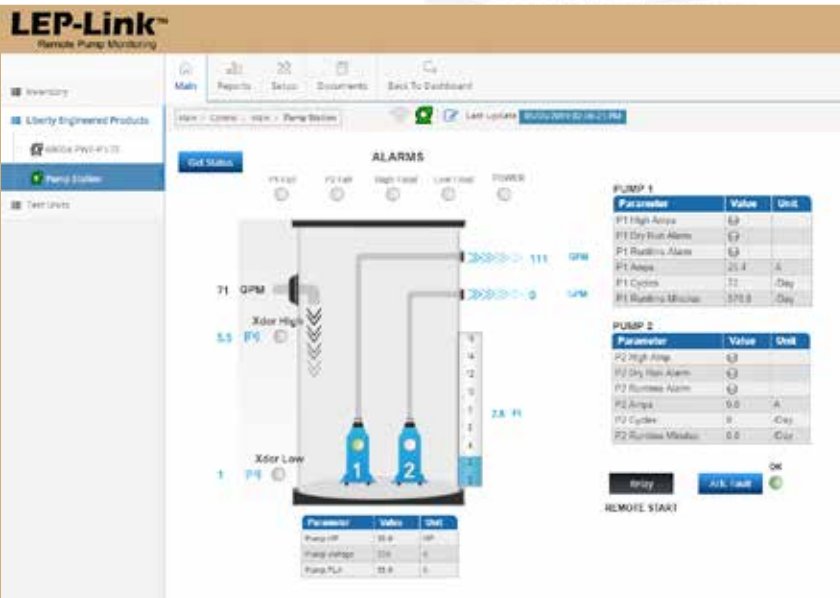


RTU-Series

RTU-100 Base Module

RTU-200 Advanced Module

- Built-in I/O (no controller required)
- Two pump run digital inputs
- Up to four configurable digital alarm inputs
- One relay output
- Battery backup for digital inputs
- Access multiple LLINK or RTU products from one user friendly portal
- User able to enter the tank diameter for in-flow and pump discharge flow monitoring
- Advanced model only
 - One level input (4–20 mA)
 - One motor current input (4–20 mA)
 - Level monitoring and data logging via 4–20 mA signal
 - Monitor and log pump current



LEP-Link™ Web Browser

The LEP-Link™ controller offers cloud-based management of duplex wastewater pump stations. Alarms are monitored and service personnel notified in the event of failure via email and SMS text messaging. Data logging and trending of critical information enables users to visually track system performance and recognize impending problems. Station data can be viewed in a simple and intuitive format from a web browser on a computer, tablet or smartphone.



Engineered **Products**

Pump Sizing & Selector

www.LibertyPumps.com/LEP/Home/Pump-Flo



Technical Assistance

904-829-8211



Get the exact model you need – fast!

www.LibertyPumps.com/LEP/Build-a-Pump

For complete product information go to:

www.LibertyPumps.com/LEP

