Liberty Pumps®

Engineered **Products**

LEP





Wastewater | Commercial
Municipal | Industrial

A Family and Employee Owned Company



Innovation.
It's in our DNA...

For over 60 years, Liberty Pumps has been innovating pump designs in a company culture that cultivates passion to provide the best service and quality possible for our customers.

Holding over 25 U.S. Patents, our talented engineering team is constantly advancing pump technology with designs that expand the baseline of expectations, with features designed to improve performance and provide better solutions for your toughest pumping applications.

As a privately held, family and employee owned company, we take pride in the fact we have ownership of the brand. To us, a pump is not just a product. It's our reputation.

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



BABA
Build America, Buy America Compliant Pumps

Proudly built in the USA with US and global components!

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

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 Enclosed 2 Vane designs.

Available Wet Ends



Vortex



Monovane



Enclosed 2 Vane



Grinder V-Slice® Cutter Technology

3XLM-Series Shown

Patent: See LibertyPumps.com/lep/resource-center/patents

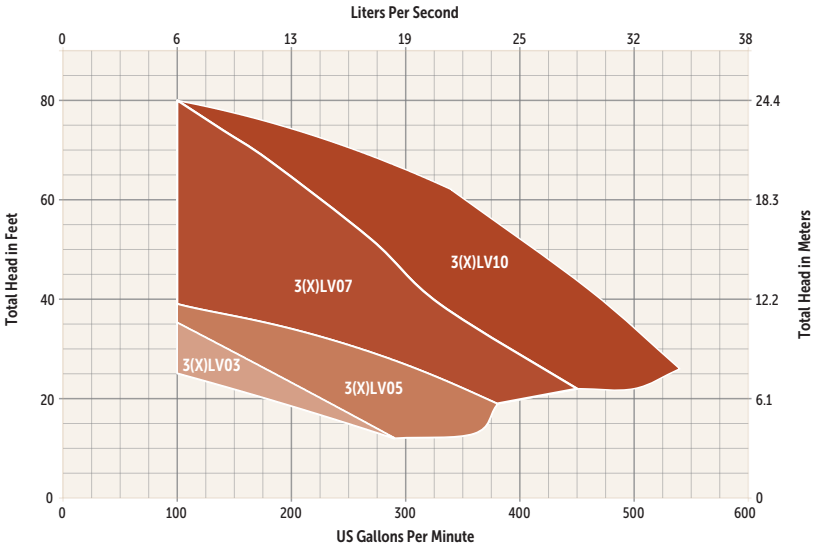
60 Hz Operating Ranges

3" Solids Handling

Liberty Pumps (X)LM, (X)LV, or (X)LE-Series pumps, with **ClearNotch™** 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 offers lower operating and maintenance costs over the long-term. Available in ordinary and hazardous location models.

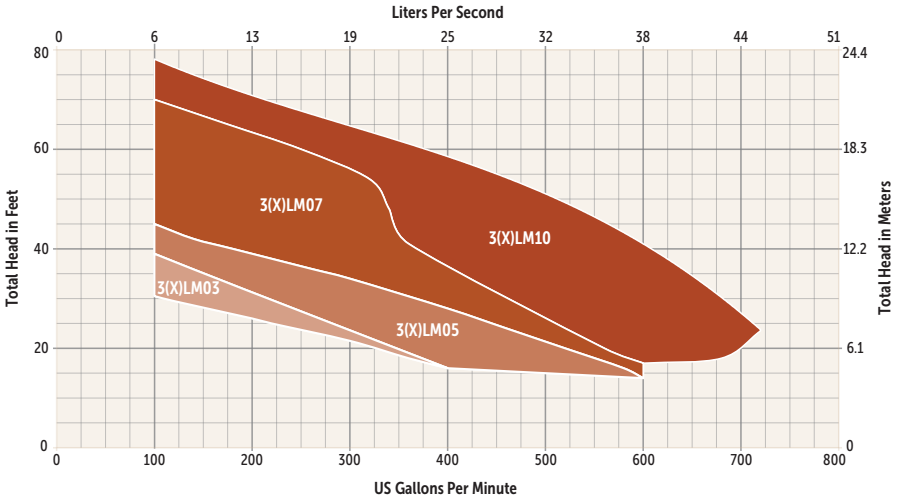
3LV/XLV Vortex





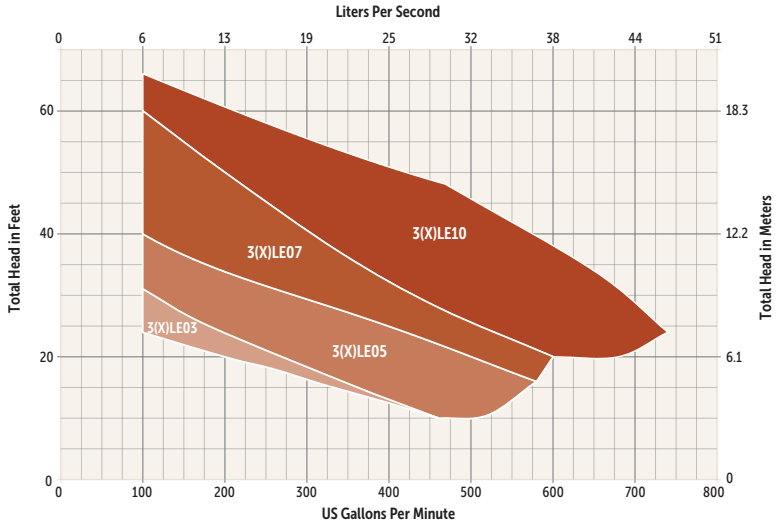
3LM/XLM Monovane





3LE/XLE Enclosed 2 Vane





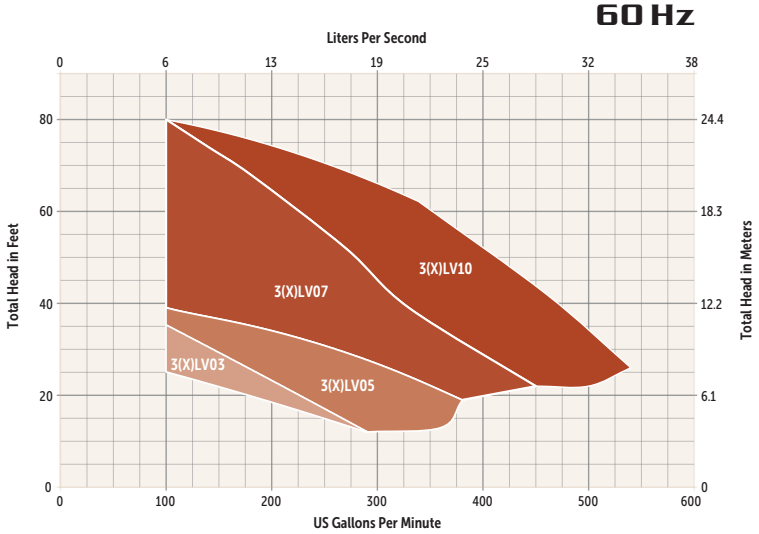
Vortex 3LV-Series & 3XLV-Series



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



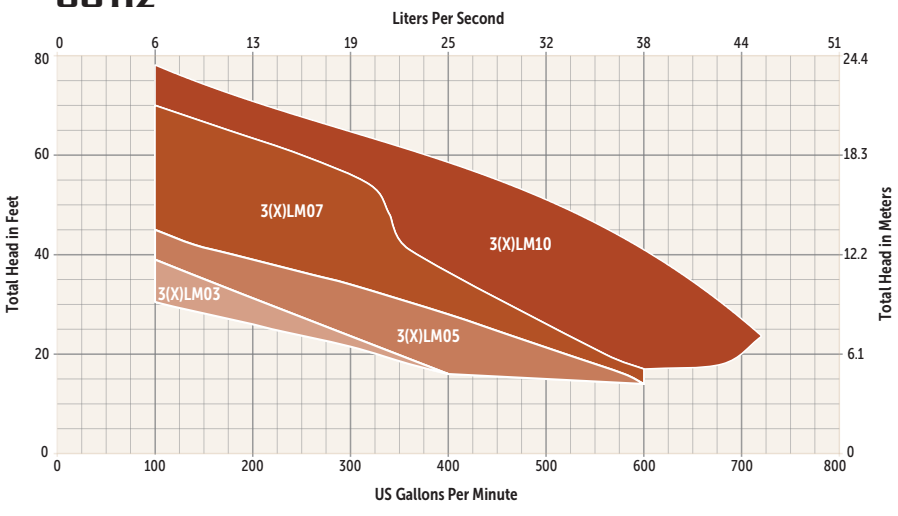
60 Hz



3LM-Series & 3XLM-Series Monovane

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

60 Hz



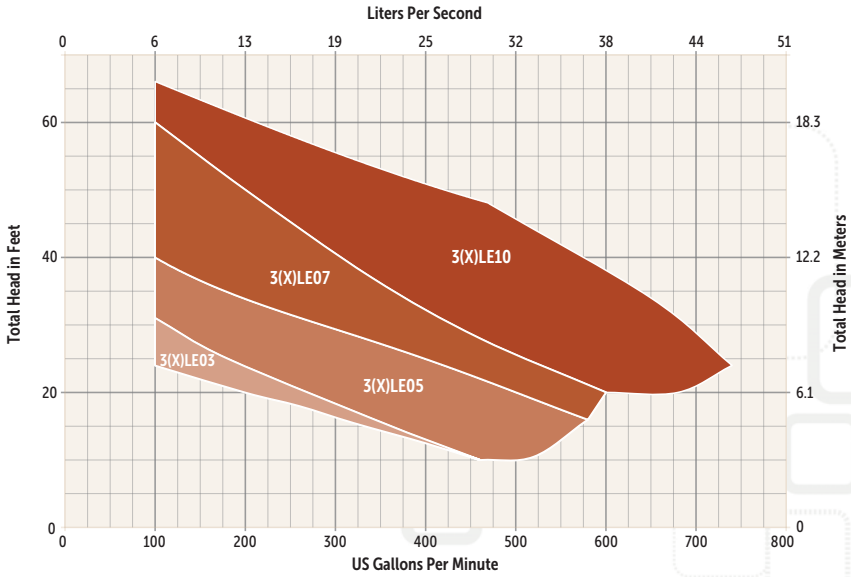


Enclosed 2 Vane 3LE-Series & 3XLE-Series

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



60 Hz



Single Seal Models

Options

- 3" NPT removable vertical flange (optional)
- 4" NPT removable vertical flange (optional)

Vertical Discharge Options



3" NPT vertical



4" NPT vertical



K001901
Optional 3" to 4" ANSI



K002027
Optional 4" to 3" ANSI

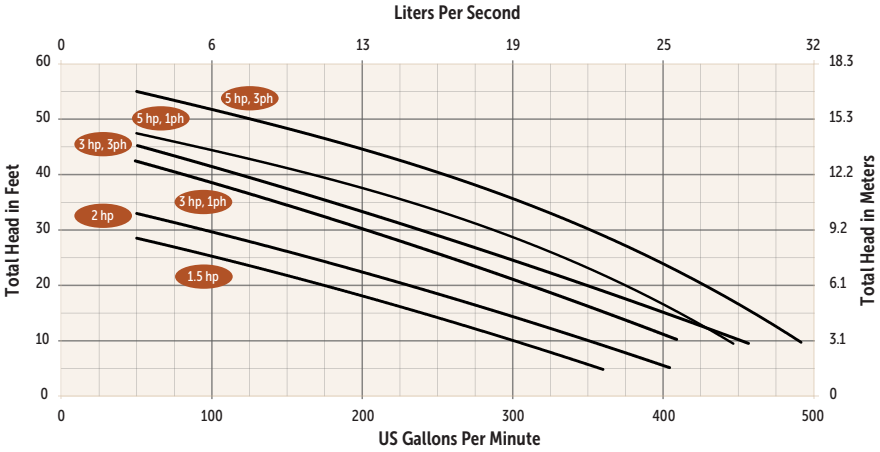
1.5–5 hp Single Seal Models

2LE-Series

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



60 Hz

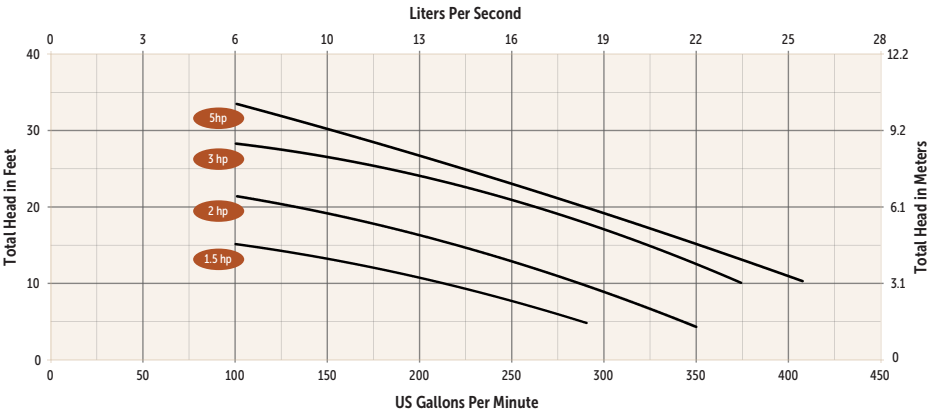


3LEV-Series

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



60 Hz





When jamming is simply not an option

V-Slice® Cutter Technology

Setting the new standard in grinder pump performance.



Omnivore® Grinders

For over 20 years, Liberty Pumps Omnivore® Series grinders have lead the 2 hp category in performance and durability with their ***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.

Watch it grind!

LG-Series Omnivore® Grinders

2.5 hp Grinder (1.9 kW)



- V-Slice® Cutter Technology
- Stainless steel impeller and cutter system
- Quick-connect power cord (ordinary location only)
- Fits GR20-Series guide rail system
- Fits G90 elbow
- Single guide pipe design with auto-align feature
- Powder coated for corrosion resistance
- Includes: mating flange, stainless steel bolts and sealing grommet

Ordinary Location

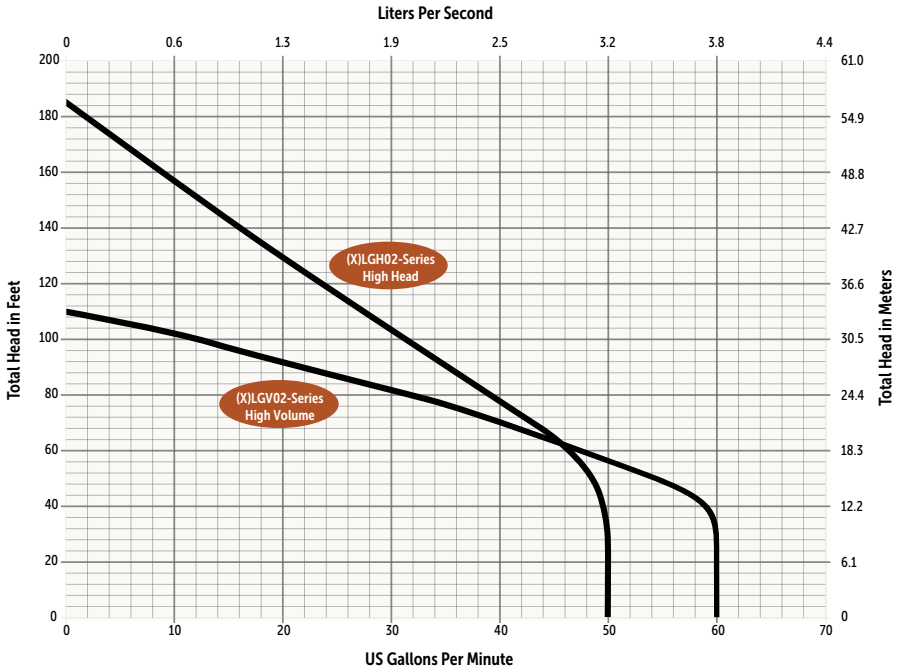
LGV02-Series	High Volume
LGH02-Series	High Head

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

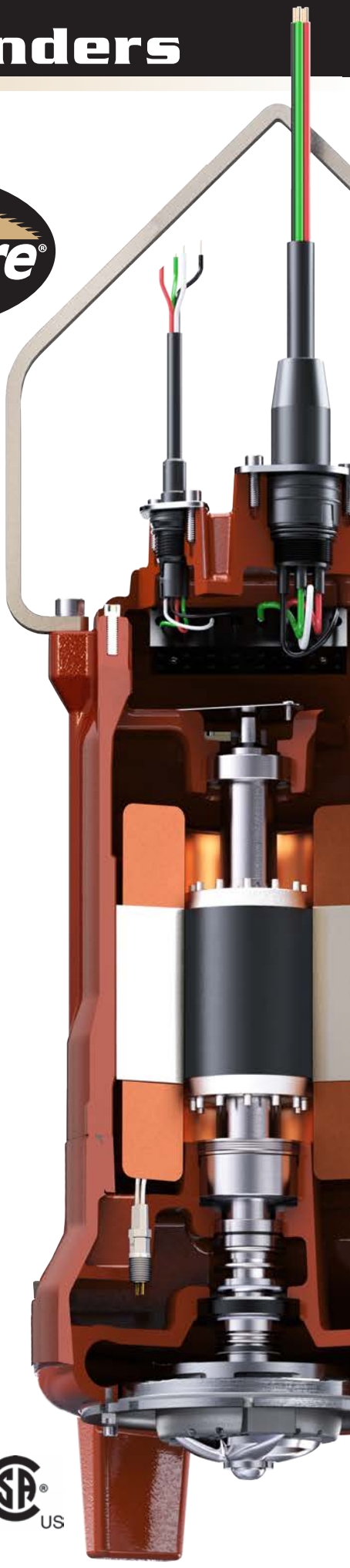
60 Hz



Patent: See
LibertyPumps.com/lep/resource-center/patents

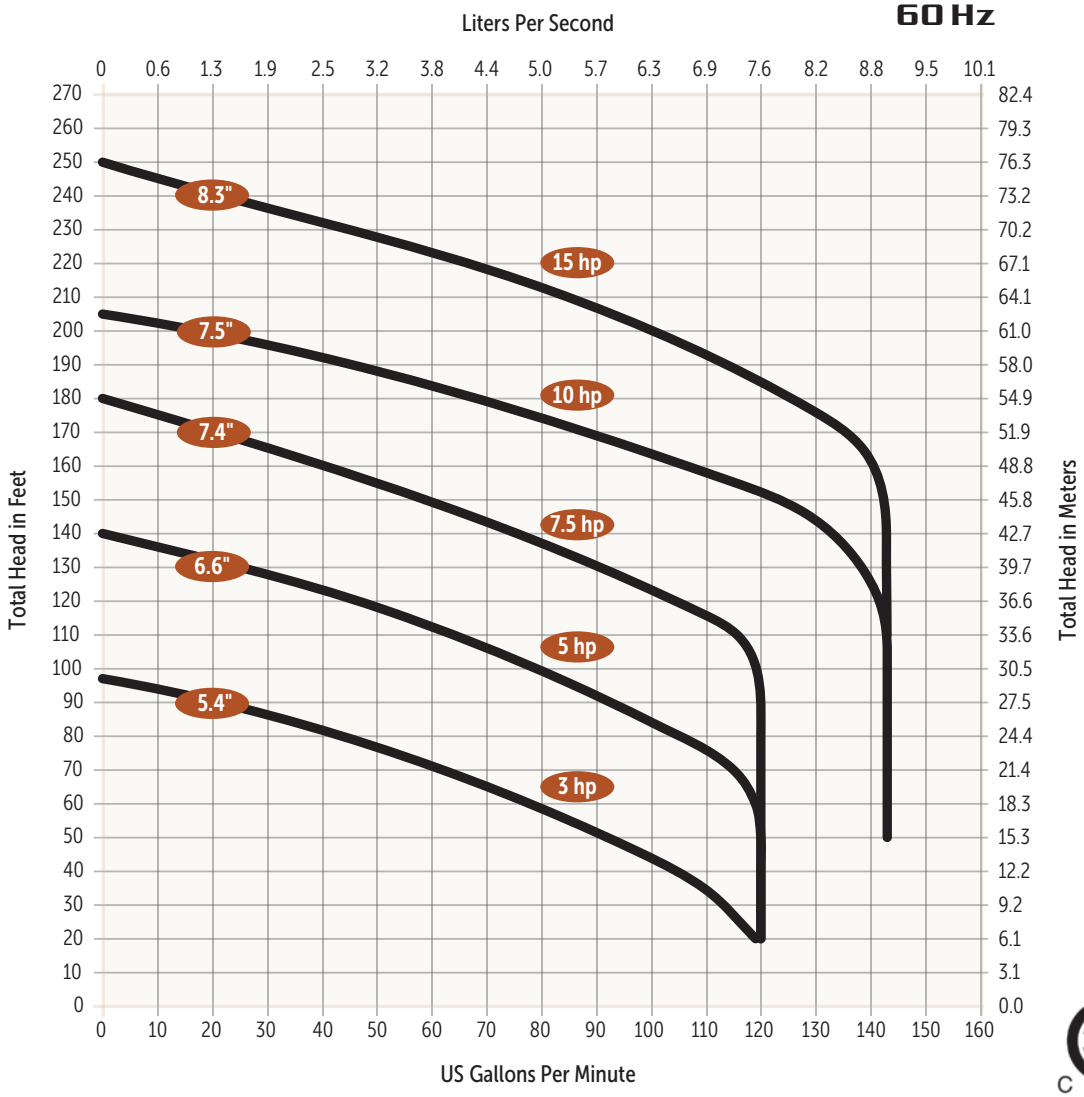
Features

- Range: 3 hp through 15 hp (2.2 kW through 11.2 kW)
- 316 Stainless steel impeller
- Available in high volume or high head models
- Ordinary or hazardous location models
- 3-7.5 hp models feature 2", 2.5" and 3" ANSI horizontal discharge or 2" and 3" NPT vertical discharge options
- LGF-Series models feature 4" ANSI horizontal discharge
- LGH and LGV 10-15 hp models feature 3" ANSI horizontal discharge
- Standard quick-connect or heavy-duty quick-connect cord options
- Dual seal design with seal fail sensor
- **MidTherm™** Cooling provides enhanced motor cooling
- VFD compatible design
- NEMA® IE3 Premium Efficiency motor construction



LGH High Head

60 Hz



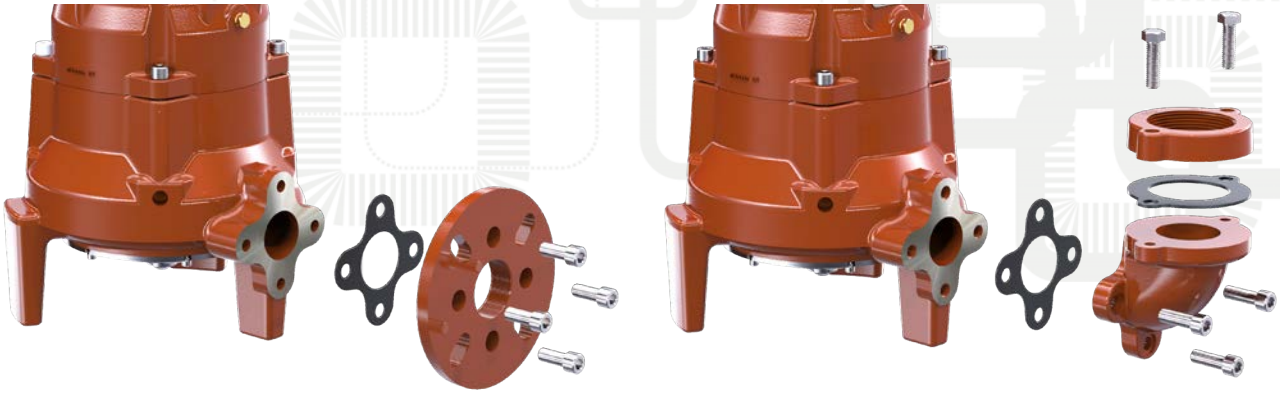


Combo Volute

allows for multiple discharge options

for 3, 5 & 7.5 hp models

(ordinary location)

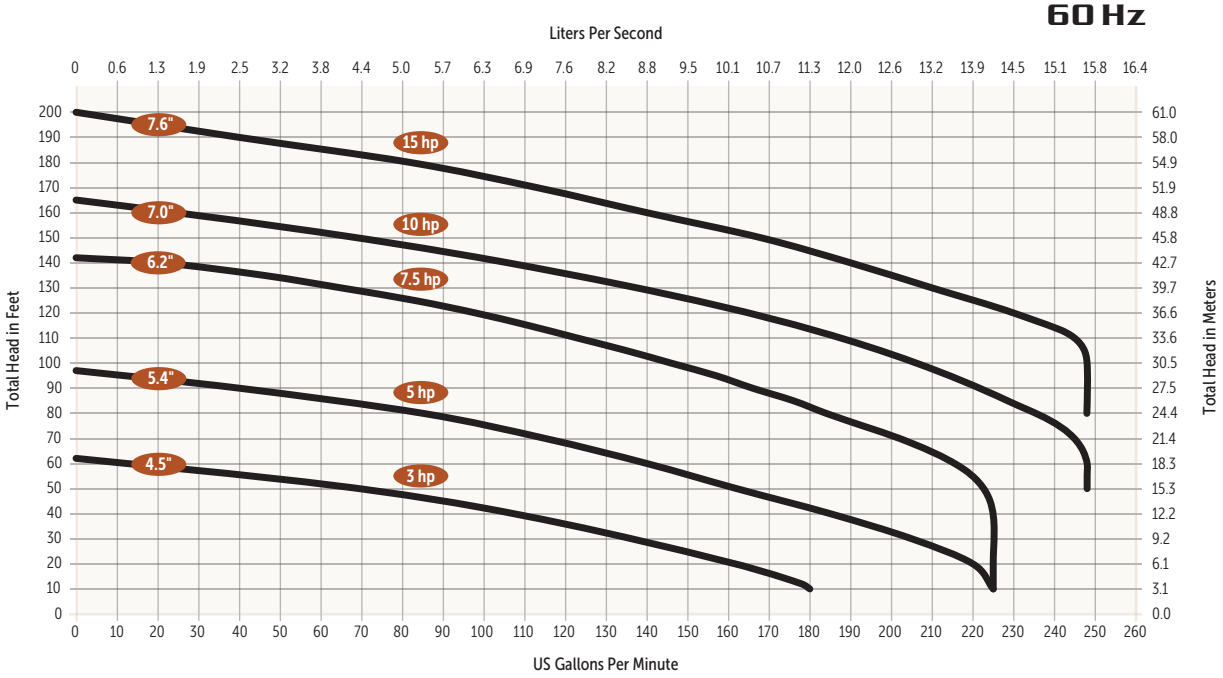


AVAILABLE IN

LGH High Head and LGV High Volume

LGV High Volume

60 Hz



Consult LGH/LGV-Series literature for complete product specifications.

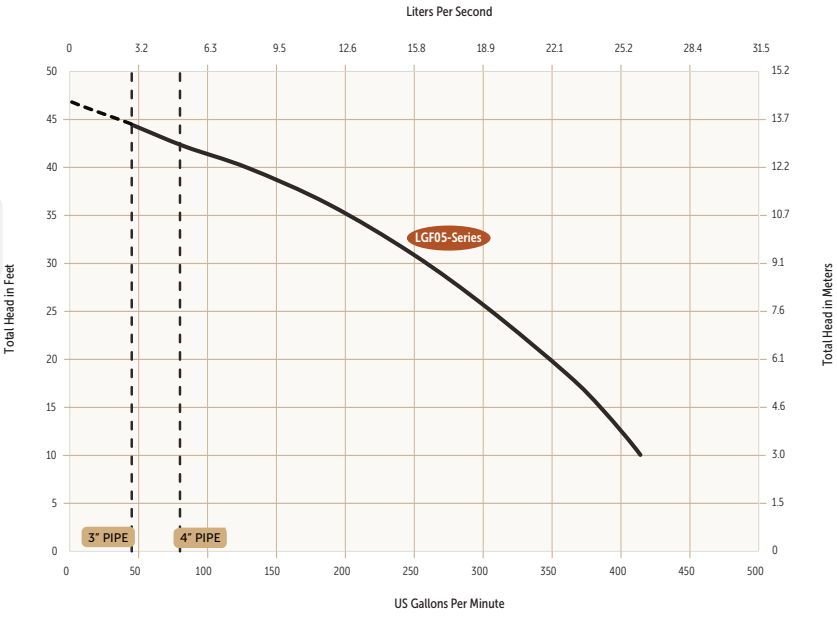
LGF-Series High Flow Grinders



LGF05-Series

- **5 hp**, 4-pole 1750 RPM motor
- ***WadBuster™*** Technology reduces jamming
- Stainless steel impeller
- 4" 150# ANSI® horizontal discharge
- Standard quick-connect power cord

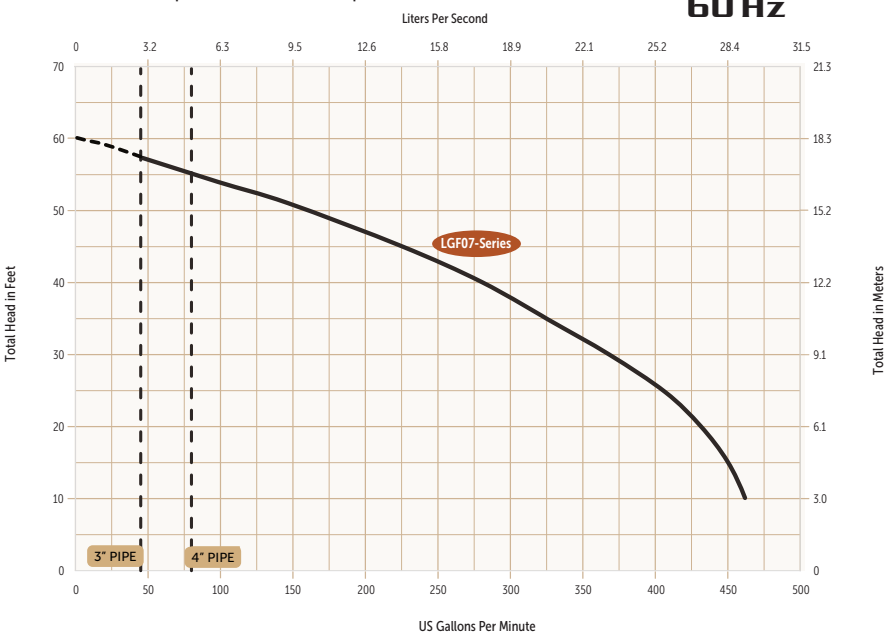
60 Hz



LGF07-Series

- **7.5 hp**, 4-pole 1750 RPM motor
- ***WadBuster™*** Technology reduces jamming
- Stainless steel impeller
- 4" 150# ANSI® horizontal discharge
- Standard quick-connect power cord

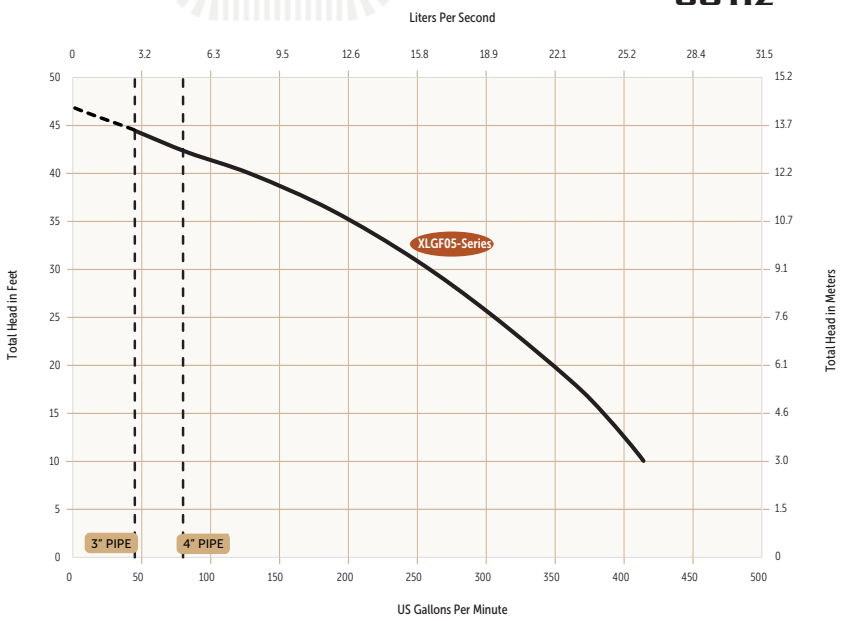
60 Hz



XLGF05-Series *(Hazardous Location)*

- **5 hp**, 4-pole 1750 RPM motor
- ***WadBuster™*** Technology reduces jamming
- Dual Seal
- Stainless steel impeller
- 4" 150# ANSI® horizontal discharge

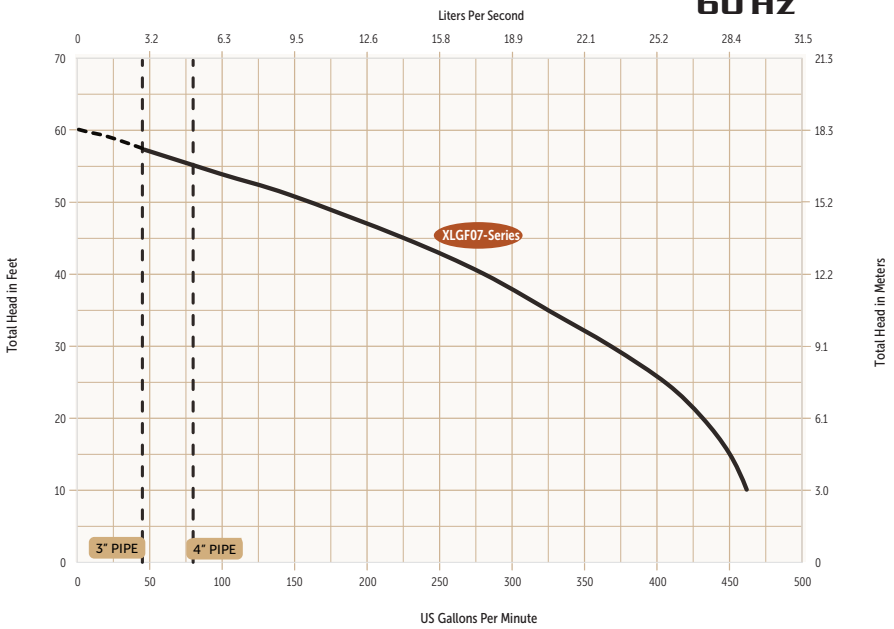
60 Hz



XLGF07-Series *(Hazardous Location)*

- **7.5 hp**, 4-pole 1750 RPM motor
- ***WadBuster™*** Technology reduces jamming
- Dual Seal
- Stainless steel impeller
- 4" 150# ANSI® horizontal discharge

60 Hz



NEW!

WadBuster™ Technology

disperses material and helps reduce wadding on the cutter head, improving flow and cutting performance



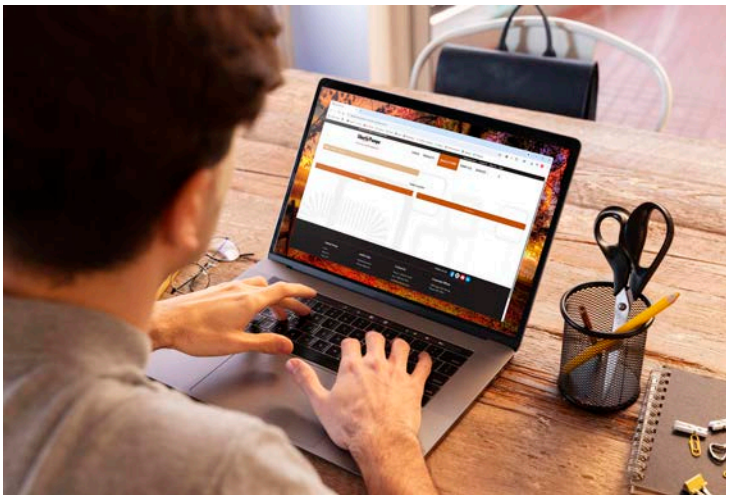
Patent: See LibertyPumps.com/lep/resource-center/patents

Omnivore® Grinders

Build-a-Pump™

The easy online tool to help you with selecting your pump model!

Choose your pump style, hp, voltage, discharge type, and other available options. The tool will develop your exact model number, show matching control panel options and guide rails, and build your submittal packet all within minutes, all online!



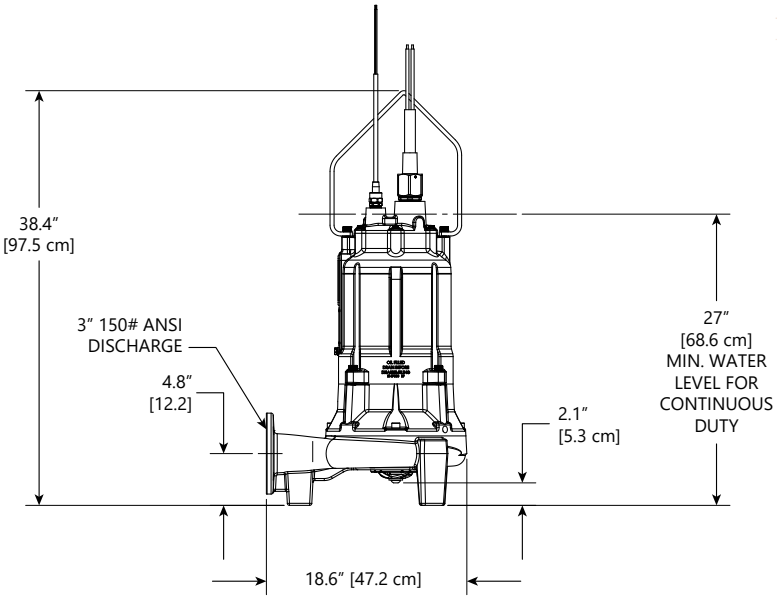
Liberty Pumps Engineered Products

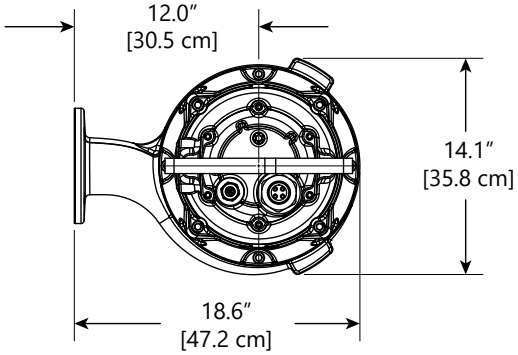
Technical Data

3XLV05-Series - 60 Hz

Model Number	3XLV052A	3XLV053A	3XLV054A	3XLV055A
HP	5	5	5	5
Volts	230	200/230*	460	575
Phase	1**	3	3	3
Hz	60	60	60	60
RPM	1750	1750	1750	1750
FLA	24.5	17.6/16	8.0	6.5
SFA	28	21.2/19.2	9.4	7.8
LRA	129	120	59.3	38.9
Max kW Input	5.4	5.2	5.2	5.2
NEMA Code	–	A	A	A
Service Factor	1.3	1.3	1.3	1.3
Power Factor (%)	98	80	80	80
KVA Code	F	M	M	K
Motor Efficiency @ Full Load (%)	85.6	89.5	89.5	88.7
Std Impeller Diameter (in)	6.0	6.0	6.0	6.0
Shut-Off Head w/Std Impeller (ft)	38	38	38	38
Max Usable Head w/Std Impeller (ft)	36	36	36	36
Min Head w/Std Impeller (ft)	16	16	16	16
Max Flow @ Min Head (GPM)	380	380	380	380
Power Cord Type & Diameter	Type W, 1 in	SOOW, 0.72 in	SOOW, 0.72 in	SOOW, 0.72 in

* System voltages: 208 and 240 volts with utilization voltages: 200 and 230 volts. These pumps are able to be rewired to 460 volts in the field.



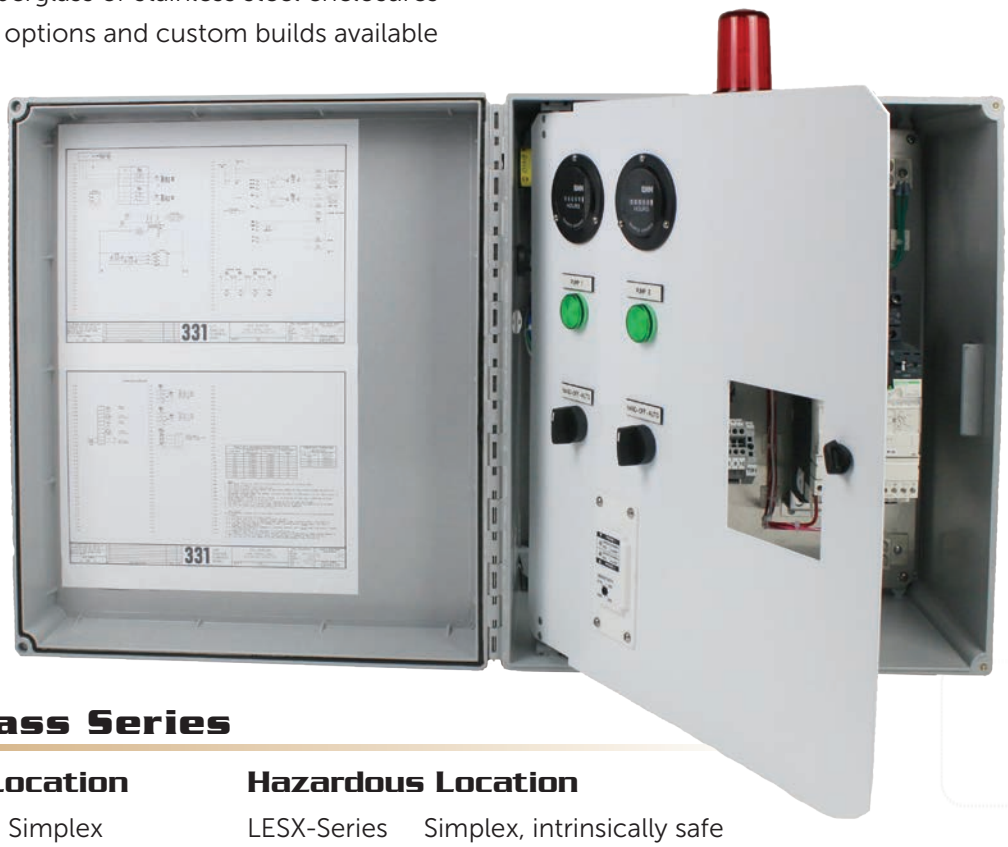


Get the exact model you need – fast!

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

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



Standard Features Include:

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

Stainless Steel Series

Ordinary Location

LESS-Series	Simplex
LEDS-Series	Duplex

Hazardous Location

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

Consult LED or LES literature for complete panel information.



Need an adapter?
We've got the fit for you!





Guide Rail Adapters Fit Most:

- Flygt
- Barney's
- Myers
- Hydr-O-Rail





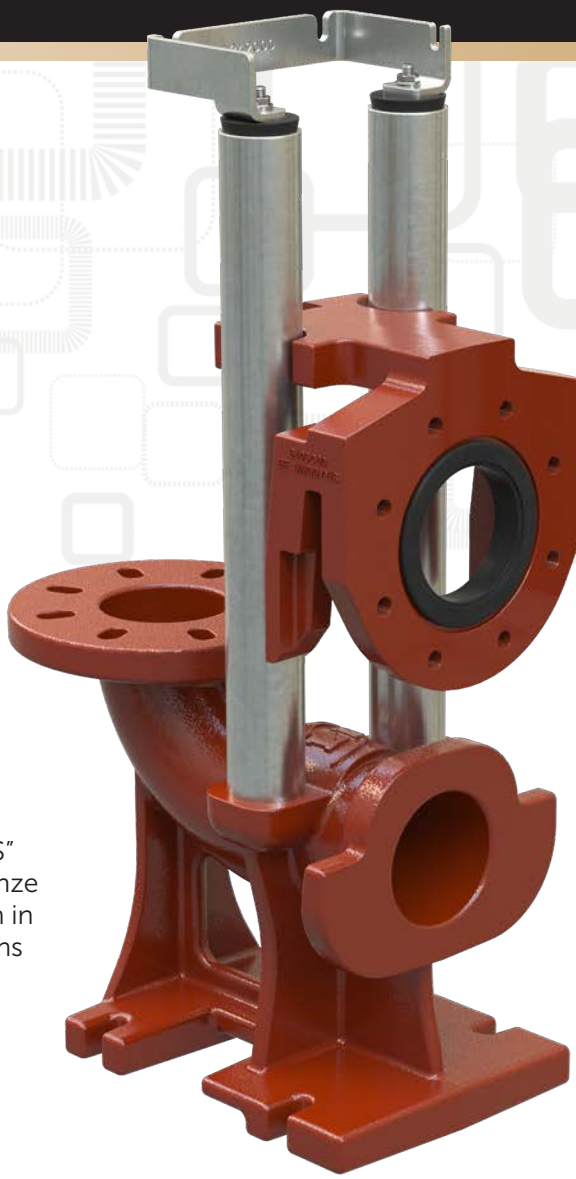
Consult Adapters literature for complete product specifications.

Guide Rails

GR-Series

3” & 4” ANSI Rail System

- Class 30 heavy cast iron construction
- Sized for 2" rail pipes (not included)
- Durable nitrile sealing grommet
- Upper stainless steel 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

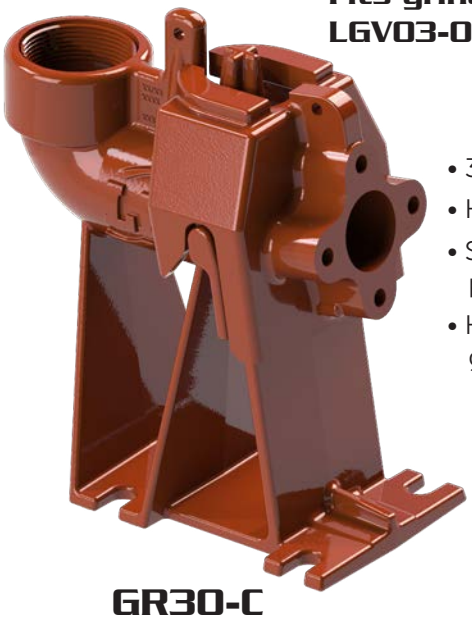
GR3-ANSI	3” ANSI®
GR4-ANSI	4" ANSI®
GR3NS-ANSI	3" ANSI®, Non-sparking
GR4NS-ANSI	4" ANSI®, Non-sparking

Consult GR-Series literature for complete product specifications.

GR30-C

Guide Rail for Combo-Volute Models

Fits grinder models LGV03-07 and LGH03-07



GR30-C

- 3” FNPT discharge
- Heavy Class 30 cast iron
- Sized for 1-1/4” guide rail pipe (Not included)
- Heavy-duty nitrile sealing grommet

LG-Series Accessories

Fits 2.5 hp Grinders

GR20 Guide Rail



G90 Elbow

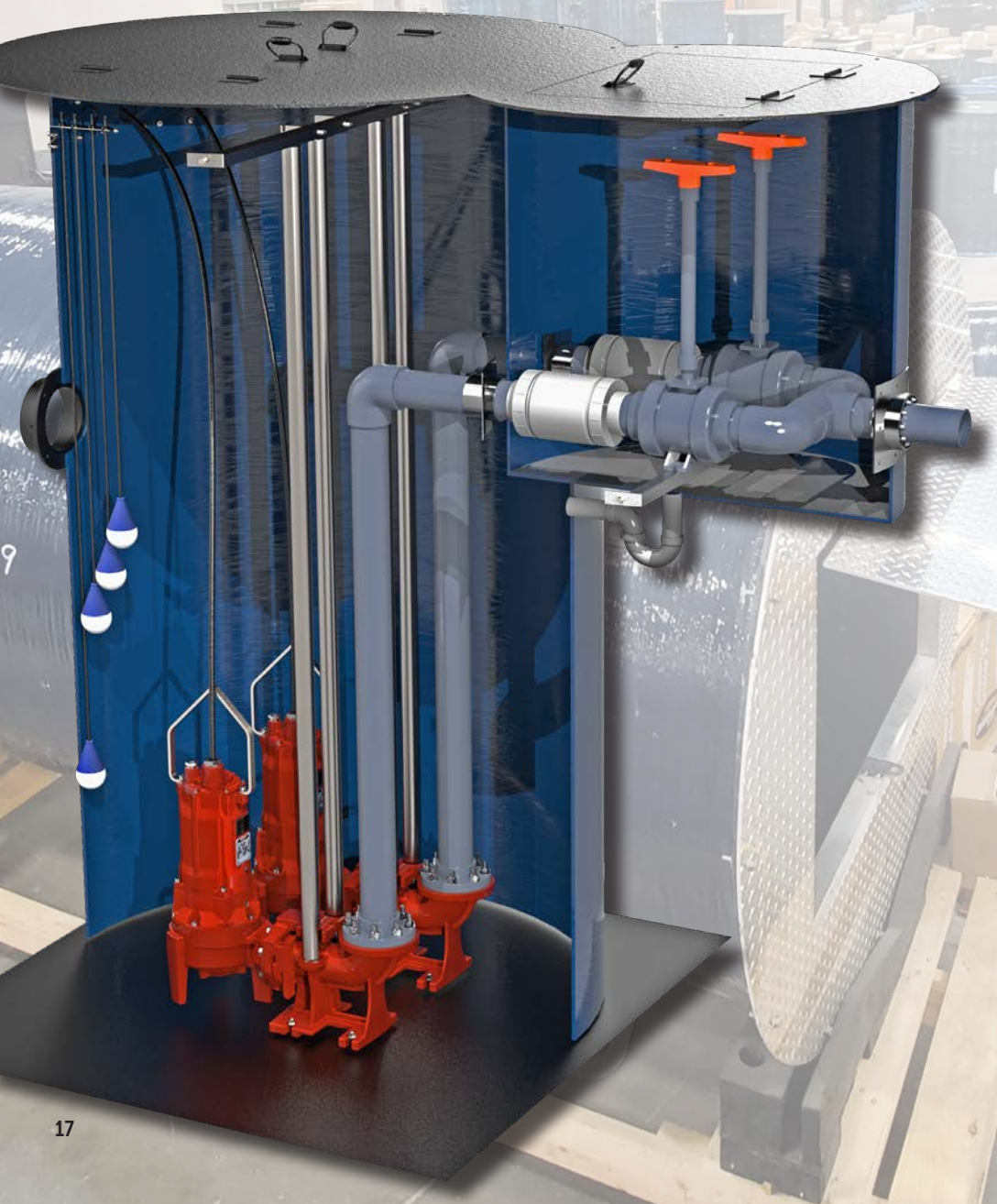


Consult LGV02/LGH02-Series literature for complete product specifications.

LET LIBERTY DO THE WORK

Custom system design and fast quotes!





LEPS Complete Systems

WE DESIGN. WE BUILD.

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 systems assure that you get it right – factory set and ready to install



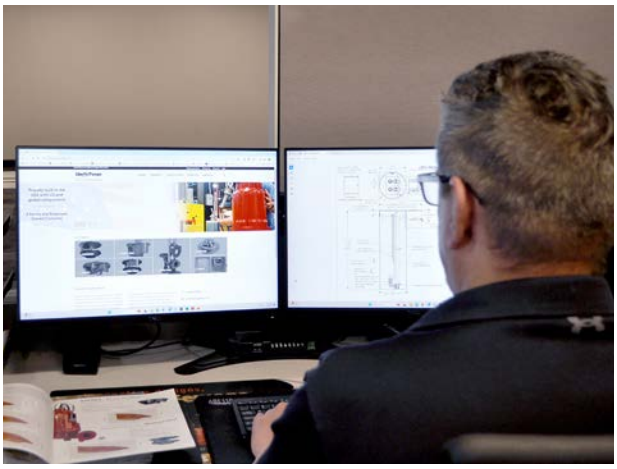
WE MAKE IT EASY.

Our design/tech team is ready to assist you.

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Engineered **Products**



Build-a-Pump™

Get the exact model you need – fast!

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Technical Assistance

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PUMP-FLO®

Pump Sizing & Selector

www.LibertyPumps.com/LEP/Pump-Flo

Submersible Wastewater Pump Association SWPA MEMBER

For complete product information go to:

www.LibertyPumps.com/LEP



Product specifications subject to change without notice.

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