LSG500-SERIES
Sewage Grinder Pump

commercialseries

Liberty Pumps®
A Family and Employee Owned Company

5 hp

2", 2-1/2" & 3" ANSI® Horizontal Discharge with 2" NPT

2"/3" NPT Vertical Discharge Models Available

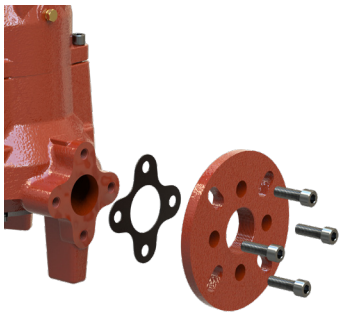
Features

- Cast iron construction with durable powder coat finish
- Stainless steel hardware
- Buna-N O-ring seals
- Quick-connect cords in 35' & 50' lengths
- V-Slice® Cutter Technology
- Dual seal with seal leak detection
- MidTherm™ Cooling provides more efficient motor cooling

Patent: See LibertyPumps.com/en-us/patents

NEW! **Combo Volute**

One pump, multiple discharge options



Horizontal discharge models feature ANSI® 150# 2"-3" and a 2" NPT

Vertical discharge models feature a 2" threaded elbow with a 3" threaded flange

Proudly made in the USA with US & global components

innovate. evolve.

LSG500-Series

Impeller

Balanced stainless steel

Finish

Powder coat

Max Fluid Temperature

104°F (40°C) Continuous duty

Motor

Oil-filled, Class F insulation,
Inverter duty rated

Power Cord Type

1-phase is Type W; 3-phase is SOOW
Quick-connect 35' or 50' length options

Motor Housing

Class 30 cast iron

Volute

Class 30 cast iron

Shaft

Stainless steel

Mechanical Shaft Seals

Dual seal arrangement
- Lower (primary) silicon carbide/ silicon carbide
- Upper (secondary) carbon/ceramic

Bearings

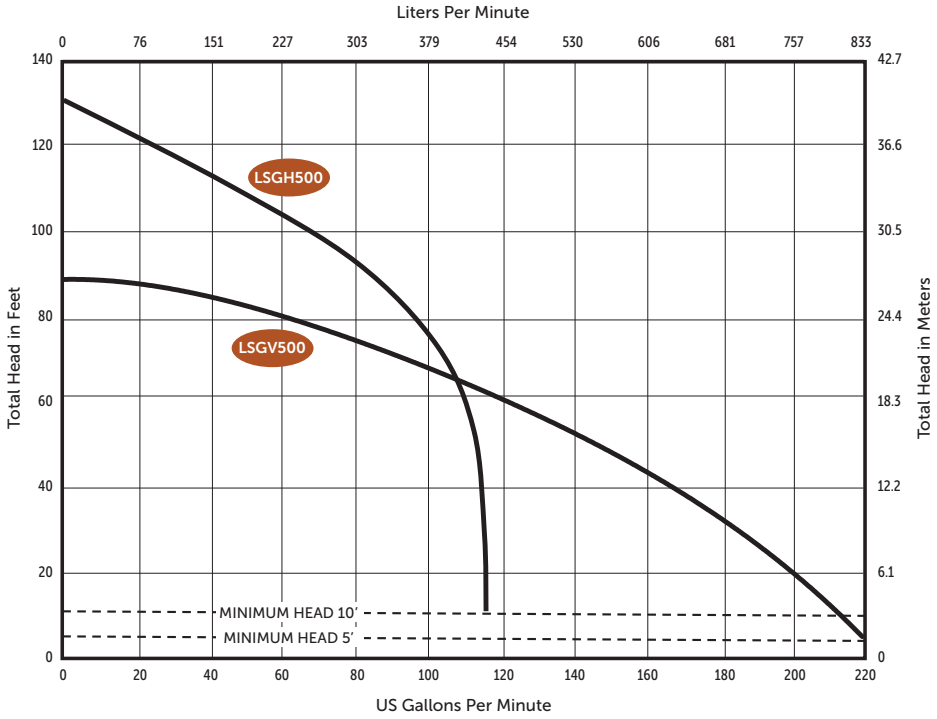
- Upper bearings single row deep groove
- Lower bearings double row angular contact

Warranty

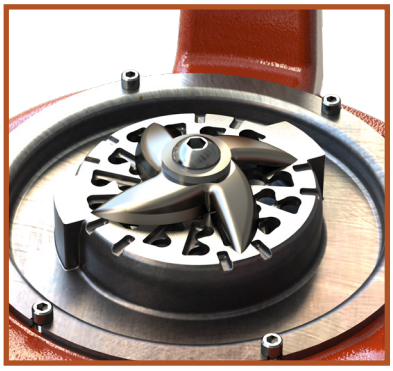
18 Months from the date of installation or
24 months from the date of manufacture
See Liberty Pumps Limited Warranty - Wholesale Commercial Series

Performance Curve

60 Hz, 3450 RPM



V-Slice® Cutter Technology

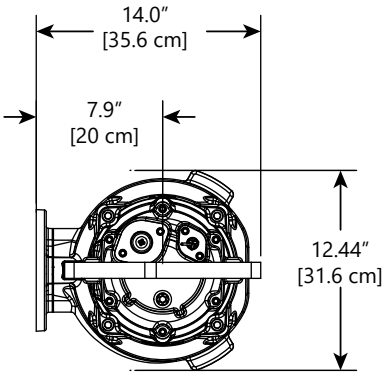


Patent: See
LibertyPumps.com/en-us/patents

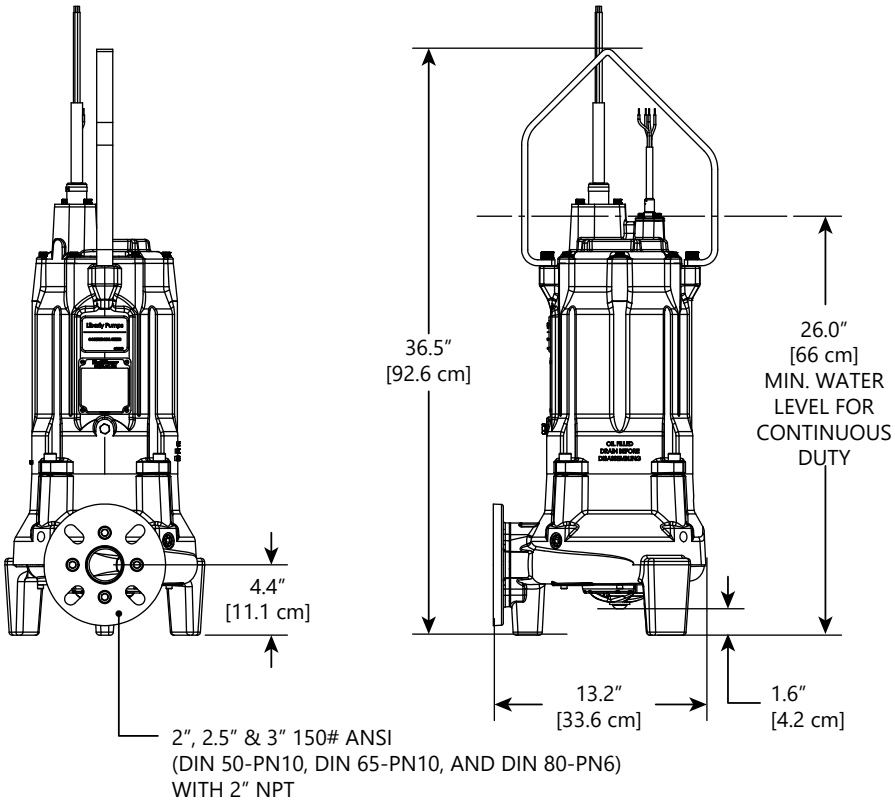
Submersible Wastewater Pump Association SWPA MEMBER

C SP US

Dimensional Data - ANSI® Horizontal Discharge



Optional 4" ANSI® Discharge Kit K002016 (sold separately)

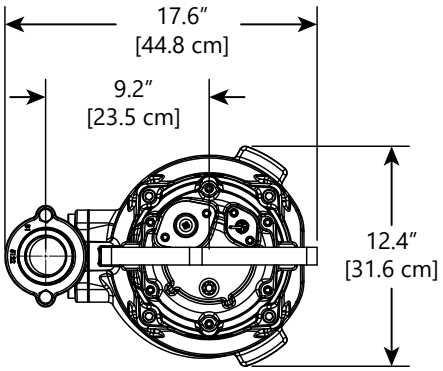


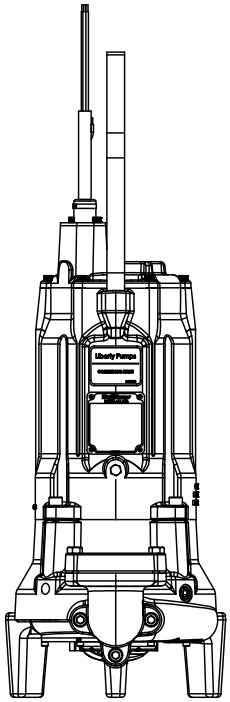
Models - ANSI® Horizontal Discharge

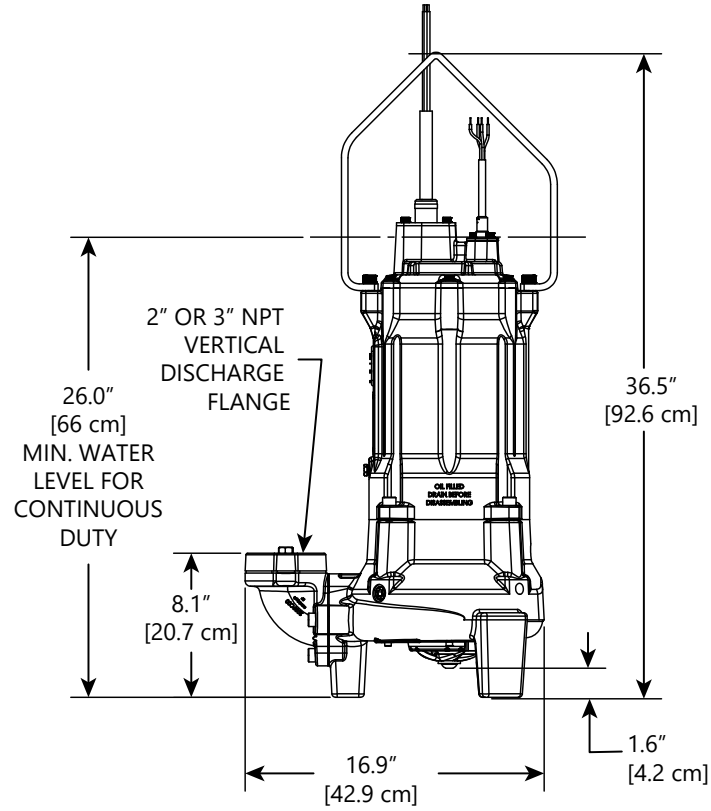
MODEL	HP	VOLTS	PHASE	AMPS	CORD LENGTH	DISCHARGE	WEIGHT in LBS
LSGV502M-3	5	230**	1	26	35'	2", 2.5" & 3" ANSI Horizontal	270
LSGV503M-3	5	200/230*	3	17.5/16.5	35'	2", 2.5" & 3" ANSI Horizontal	270
LSGV504M-3	5	460	3	8	35'	2", 2.5" & 3" ANSI Horizontal	270
LSGV505M-3	5	575	3	6.2	35'	2", 2.5" & 3" ANSI Horizontal	270
LSGH502M-3	5	230**	1	30	35'	2", 2.5" & 3" ANSI Horizontal	270
LSGH503M-3	5	200/230*	3	20/18.2	35'	2", 2.5" & 3" ANSI Horizontal	270
LSGH504M-3	5	460	3	9	35'	2", 2.5" & 3" ANSI Horizontal	270
LSGH505M-3	5	575	3	6	35'	2", 2.5" & 3" ANSI Horizontal	270

For 50' cord option, add "-5" suffix to model number. Example: LSGV502M-5 *System voltages: 208 and 240 volts with utilization voltages: 200 and 230 volts
**1-phase models require an externally mounted start circuit for operation. Start circuit kits are available and sold separately.
Refer to installation manual for circuit details.

Dimensional Data - Vertical Discharge







Models - Vertical Discharge

MODEL	HP	VOLTS	PHASE	AMPS	CORD LENGTH	DISCHARGE	WEIGHT in LBS
LSGV502MV-3	5	230**	1	26	35'	2" & 3" NPT Vertical	270
LSGV503MV-3	5	200/230*	3	17.5/16.5	35'	2" & 3" NPT Vertical	270
LSGV504MV-3	5	460	3	8	35'	2" & 3" NPT Vertical	270
LSGV505MV-3	5	575	3	6.2	35'	2" & 3" NPT Vertical	270
LSGH502MV-3	5	230**	1	30	35'	2" & 3" NPT Vertical	270
LSGH503MV-3	5	200/230*	3	20/18.2	35'	2" & 3" NPT Vertical	270
LSGH504MV-3	5	460	3	9	35'	2" & 3" NPT Vertical	270
LSGH505MV-3	5	575	3	6	35'	2" & 3" NPT Vertical	270

For 50' cord option, add "-5" suffix to model number. Example: LSGV502MV-5 *System voltages: 208 and 240 volts with utilization voltages: 200 and 230 volts
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Refer to installation manual for circuit details.

Specifications subject to change without notice.

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