

Liberty Pumps®

LSG200-Series



U.S. Patent # 7,159,806

Omnivore®
Grinders
By Liberty Pumps

2 hp

1-1/4" Discharge

Models:

LSG202A

208-230V, 1 phase, Automatic

LSG202M

208-230V, 1 phase, Manual

LSG203M

208-230V, 3 phase, Manual

LSG204M

440-480V, 3 phase, Manual

Features:

- New V-Slice™ cutter technology
- One-piece uni-body casting
 - Stainless steel impeller
- Quick-disconnect power cord
 - Panel-less design (single phase models)
- 300 Series SS Rotor Shaft

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Liberty's LSG200-Series Grinder Pumps meet the demanding needs of commercial and residential sewage applications where difficult solids-handling ability is crucial. The LSG200-Series features a superior cutting system made of hardened 440 stainless steel – Rockwell C 58, for shearing solids into small particles prior to being passed to the discharge by the impeller under high pressure. Applications include individual or groups of homes, motels, schools, shopping centers, lakefront developments and systems requiring high pressure sewage pumping.

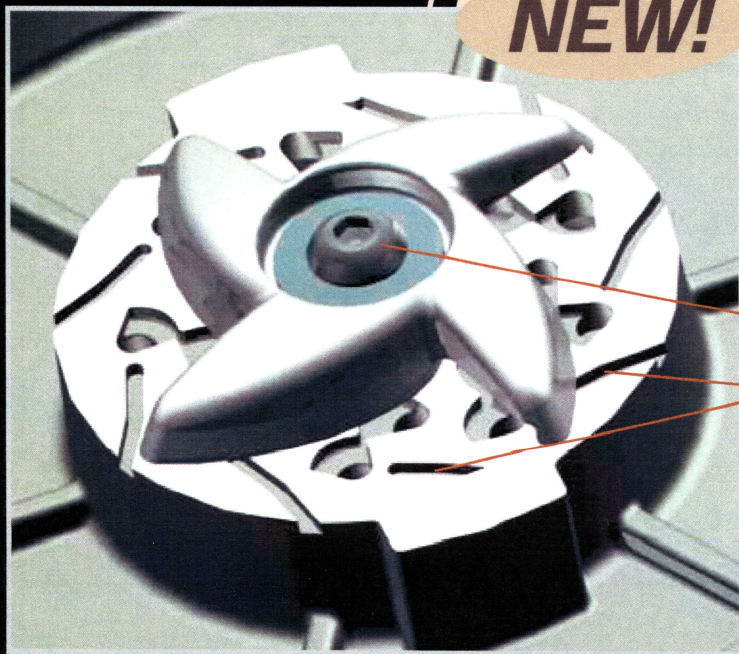
LSG200-Series Grinder Pumps

Features:

- 2 hp, heavy-duty motor – oil filled, thermally protected
- Upper and lower ball bearings
- One-piece uni-body cast iron housing
- 300 Series SS Rotor Shaft
- 316 Stainless steel impeller
- Dual seals – Upper seal is unitized durable silicon carbide. Lower seal is Viton® double-lip. (Lower seal ensures that all debris is kept away from main seal)
- Motor windings insulated to Class B (130°C)
- Advanced V-Slice™ cutting system made of hardened 440 stainless steel – Rockwell C 58
- Horizontal 1-1/4" FNPT Discharge
- Back vanes on impeller and spiraled bottom plate for superior solids clearing
- All stainless steel fasteners
- Clog-free volute design
- Designed for maximum heat dissipation and cool motor operating temperatures
- Solid state starting circuit - no mechanical relay coil
- 25' power cord with Quick-Disconnect
- Piggy back plug with wide angle float (on automatic model) eliminates need for expensive panel

Viton® is a registered trademark of DuPont Dow Elastomers LLC.

NEW!



V-Slice™ 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.

Recessed cutter bolt eliminates wadding

Exclusion cleanout slots and back relief clears debris from under cutter

U.S. Patent # 7,159,806

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Stainless steel clasp for
lift-out chain

Large stainless steel
handle with rubber grip

Quick-disconnect
power cord

Dependable solid state
starting circuit

Internal capacitors eliminates
need for expensive panel
(single phase models only)

Thermal overload

2 hp motor

Unique one-piece
unibody casting

Wide angle float with
piggy-back plug

316 SS impeller

Silicon carbide upper seal

300 Series SS
Rotor Shaft

Viton® double-lip lower seal

440 SS cutter plate
spiraled for solids
clearing

Robust motor plate

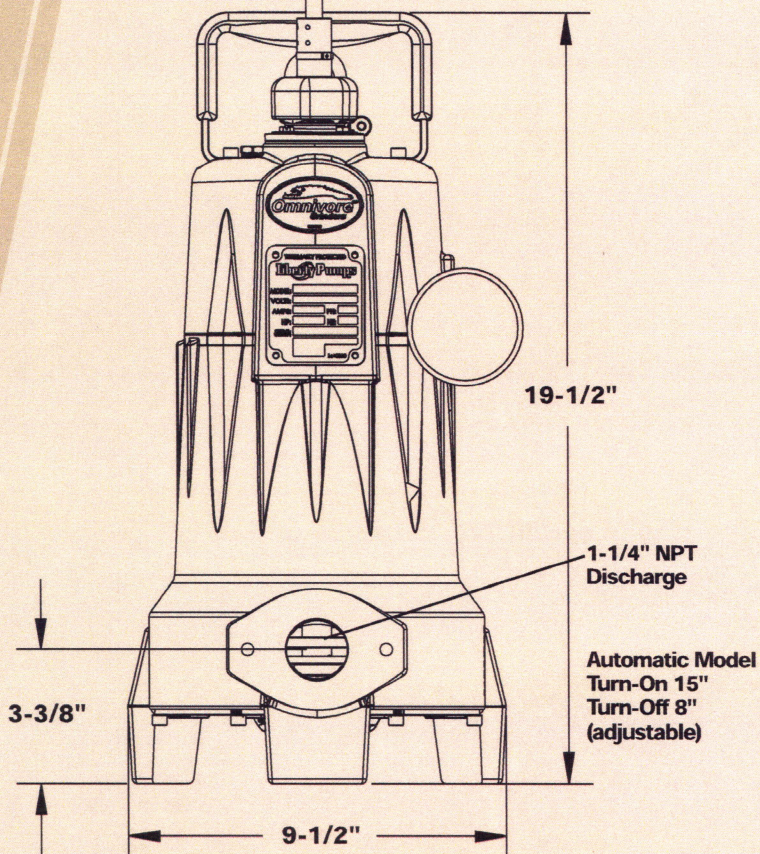
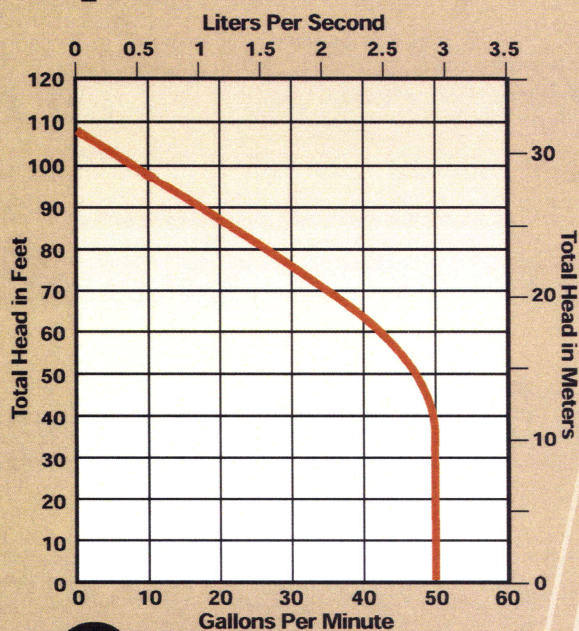
1-1/4" NPT Discharge

440 SS rotary cutter
hardened to 58Rc

Improved clog-free
volute design

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LSG200-Series Specifications



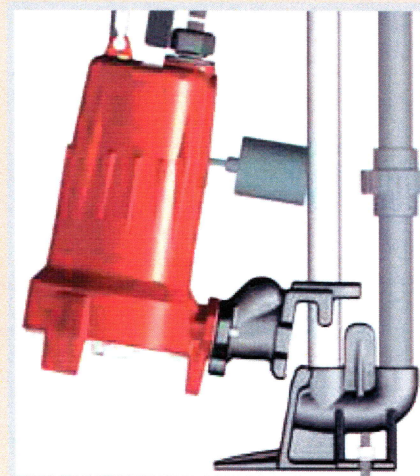
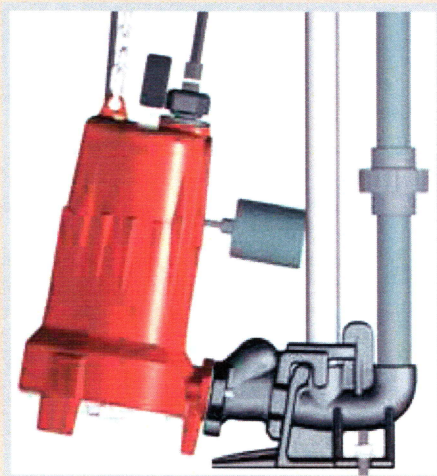
Model	HP	Volts	Phase	HZ	Amps	Locked Rotor Amps	Speed (RPM)	Discharge	Switch	Weight
LSG202A	2	208-230	1	60	15	53	3450	1-1/4"	Yes	86
LSG202M	2	208-230	1	60	15	53	3450	1-1/4"	No	84
LSG203M	2	208-230	3	60	10.6	62	3450	1-1/4"	No	84
LSG204M	2	440-460	3	60	5.3	31	3450	1-1/4"	No	84

Maximum fluid temperature 140° F



- Cast Iron construction
- Integrated ball check valve
- Single 1-1/4" guide rail pipe design
- Auto alignment feature (GR20 works only with LSG-Series pumps)
- Upper rail support bracket (GR20 option sold separately)

GR20 Guide Rail Base with integrated ball check valve (sold separately)

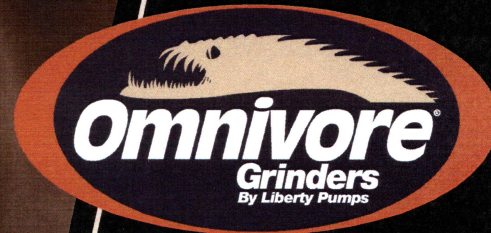


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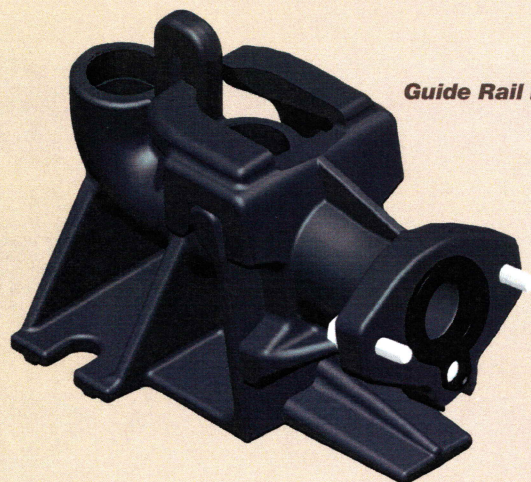
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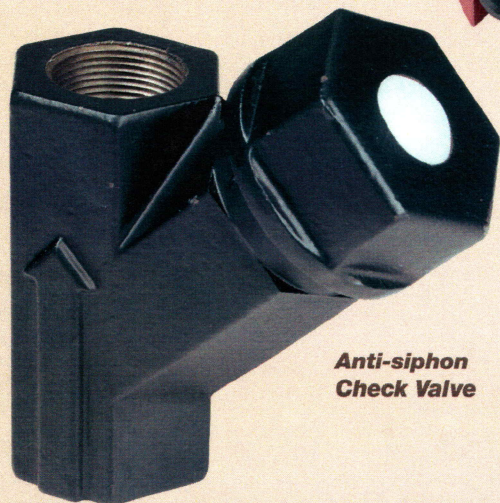
Grinder Pump Accessories



Guide Rail Base



**Flanged Elbow,
90 Degree**



**Anti-siphon
Check Valve**

Model GR20 Guide Rail Base

- Fits Omnivore LSG-Series Grinder Pumps
- Heavy cast iron construction
- Single guide pipe design with auto align feature
- 1-1/4" guide pipe female NPT
- 1-1/4" discharge female NPT
- Powder coated for corrosion resistance
- Heavy nitrile sealing grommets
- Includes mating flange for LSG-Series pump and upper rail support bracket, stainless steel bolts and sealing grommet (Guide rail pipe not included)

Model G90 Flanged Elbow, 90 Degree

- Fits Omnivore LSG-Series Grinder Pumps
- Provides vertical discharge for non-guide rail installations
- 1-1/4" female NPT outlet
- Heavy cast iron construction
- Powder coated for corrosion resistance
- Includes sealing grommet and stainless steel bolts
- Allows LSG-Series pumps to connect to some other guide rail designs

ACV125 Anti-siphon Check Valve

- Heavy cast iron construction
- Integrated heavy weight nitrile ball check valve
- Anti-siphon features breaks suction to prevent unwanted tank siphonage
- 1-1/4" female NPT connection
- 125 PSI rated

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