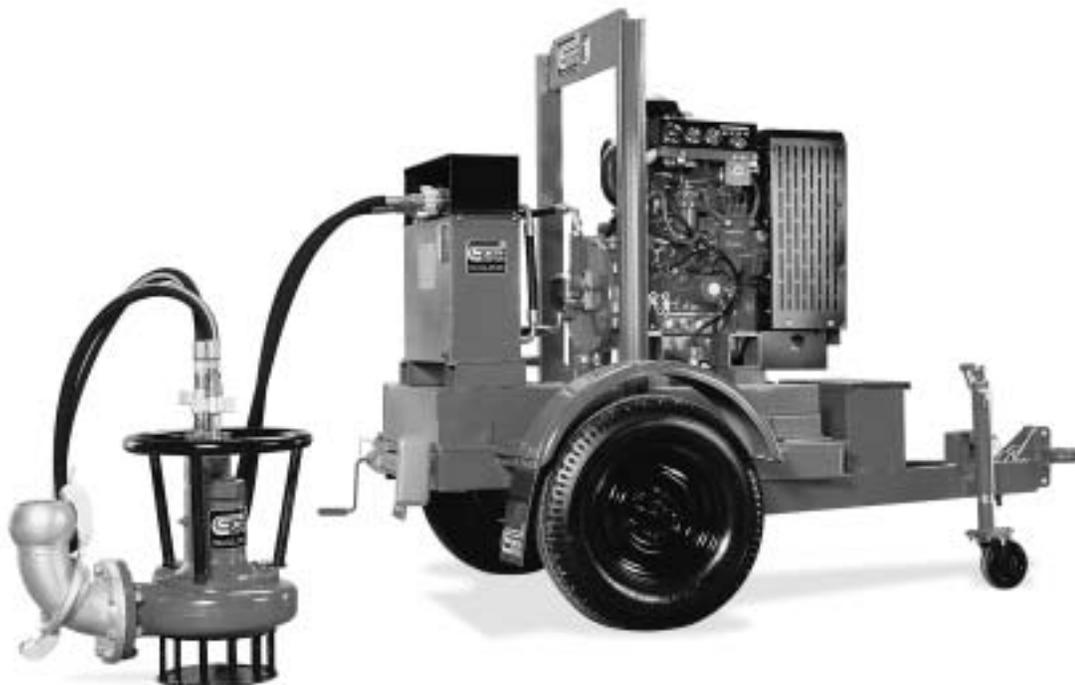


Heidra[®] 100 Hydraulic Submersible Pumps

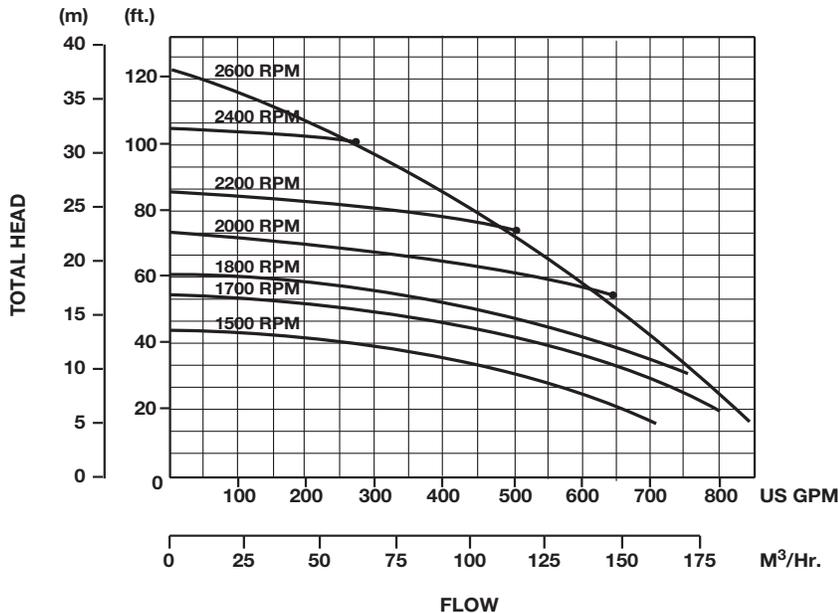


The Godwin 4" (100mm) Heidra 100 hydraulic submersible pump is a compact self-contained pumping unit featuring a diesel driven power pack and 4" (100mm) submersible hydraulic pump. With variable speed diesel engine power, the Heidra 100 can meet a variety of flow and head requirements up to 800 gpm (408.6 M³/hr.) and 120 feet (36.6M) of total dynamic head with a simple throttle adjustment. Add the ability to pass solids to 2" (50mm) diameters, dry running capabilities, a cast chromium steel impeller, and you have a rugged dewatering/solids-handling, hydraulic submersible pump ready to go anywhere.

Features

- Rugged construction featuring cast iron pumping chamber and cast chromium steel impeller.
- Bearings are independent from the hydraulic gear motor – pump loads in no way affect gear motor performance.
- Double mechanical seal in its own clean oil bath allowing for indefinite dry running. Inboard seal: silicone carbide. Outboard seal: carbon or ceramic.
- Standard impeller designed for general pumping, slurries and sludges. Semi-recessed impeller provides greater solids-handling capabilities.
- Standard two-bolt SAE flange gear motor connections.
- Simple to maintain, gear motor with “plug-in” connection allows for quick changeover when required.

Heidra 100 Performance Curve



Performance data listed in table and curves based on water tests at sea level and 68° F (20° C). Larger diameter pipes may be required for maximum flows.

Dimensions

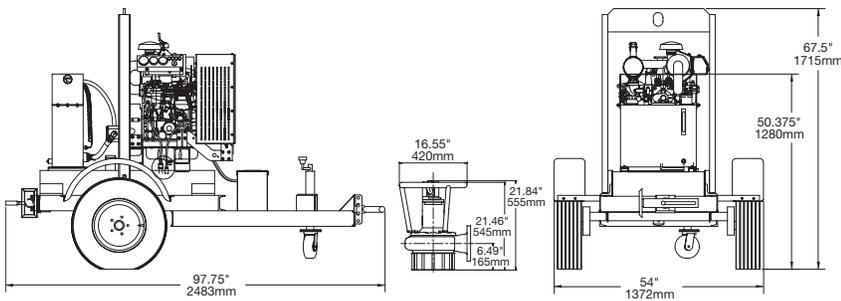
Weights (approx.)

Pump

Aluminum 90 lbs. (41 kg.)

Cast iron 141 lbs. (64 kg.)

Power Pack 1,230 lbs. (558 kg.)



Materials

Pump Casing and Suction Cover:

Aluminum or Cast Iron

Front & Rear Wearplates:

Cast Iron

Pump Shaft:

Mild Steel

Impeller:

Cast Steel

Bearing & Seal Housing:

Cast Iron

Mechanical Seal:

Double mechanical seal in oil bath

Inboard: Silicone Carbide

Outboard: Carbon on Ceramic

Lifting Bracket:

Fabricated Mild Steel tube & plate

Specifications

Submersible Pump:

Hydraulic Motor: Gear Type

Drive Pressures: 3350 psi (231 BAR)

Flow: 8.8 gpm (.56 l/sec.)

Pump Speed: Up to 2200 RPM

Impeller Diameter: 8.4" (213mm)

Solids Handling: 2" (50mm), max.

Discharge: Flanged 4" (100mm) ASA 150

Hydraulic Discharge Connections:

3/4" (19mm) Quick Disconnect
feed and return

1/2" (13mm) Quick Disconnect case drain

Strainer: M.S. Fabrication nylon coated
with 1.75" (44mm) square apertures

Power Pack:

Engine: Yanmar 3TNV88,

23 hp (17kw) @ 2000 RPM

Hydraulic System: Two pipe open circuit

Hydraulic Reservoir: 10 gallon (37.8 liter)
capacity

Control: Through variable engine speed

Hydraulic Pump: Gear type

Output Flow: 8.8 gpm (.56 l/sec.)

Output pressure: Up to 3350 psi (231 BAR)

Suction Filter: 125 micron pleated gauze

Return Line Filter: 20 micron

Hydraulic Pipe Connections:

3/4" (19mm) API

godwin
pumps

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