

Heidra[®] 103 Hydraulic Submersible Pumps

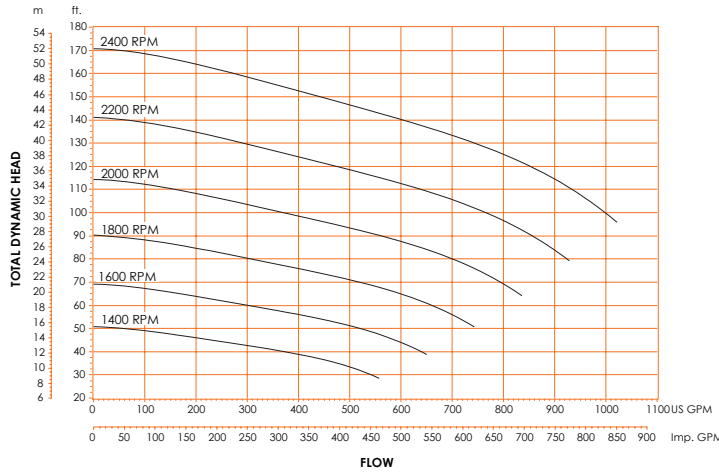
The Godwin 4" (100 mm) Heidra 103 hydraulic submersible pump is a compact, self-contained pumping unit featuring a diesel driven power pack and a 4" (100 mm) submersible hydraulic top discharge pump. With variable speed diesel engine power, the Heidra 103 pump can meet a variety of flow and head requirements up to 1,000 GPM (227 m³/h), total dynamic heads to 170' (52 m) and solids handling to 3" (75 mm) in diameter.



Features

- Unique top discharge design enables pump to fit through a 21" (533 mm) diameter opening.
- 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 allows for indefinite dry running. Inboard seal: silicon carbide. Outboard seal: carbon or ceramic.
- Standard impeller designed for general pumping, slurries and sludges.
- Standard two-bolt SAE flange gear motor connections.
- Simple-to-maintain, gear motor with "plug-in" connection allows for quick changeover when needed.

Performance Curve



Materials

| | |
|-----------------------------|---|
| Pump Casing & Suction Cover | Aluminum or cast iron |
| Pump Shaft | Mild steel |
| Impeller | Cast steel |
| Wearplates | Cast iron |
| Mechanical Seal | Inboard: solid silicon carbide Outboard: carbon on ceramic |

Performance Table

Diesel Set - JD4024T, 41 HP (31 kW) @ 2200 RPM
Impeller Diameter: 9.134" (232 mm)

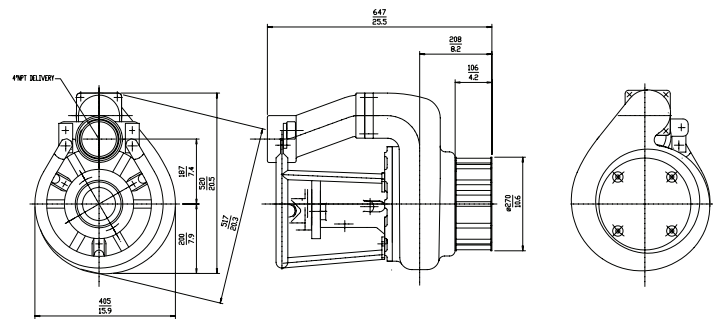
| | Total Delivery Head - Feet | | | |
|------------------------|----------------------------|-----|-----|-----|
| Total Disch. Head (ft) | 60 | 80 | 90 | 100 |
| Output (GPM) | 850 | 700 | 550 | 380 |

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

Drawings

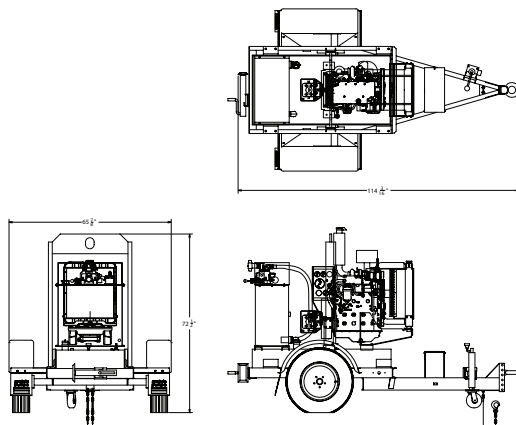
Submersible Pump

Pumpend dry weight - 300 lbs. (136 kg)



Power Pack

Trailer-mounted John Deere 4024T engine
Dry weight - 3000 lbs. (1363 kg)



Specifications

Submersible Pump

| | |
|-----------------------|--|
| Hydraulic Motor | Gear type |
| Drive Pressure | Up to 2500 PSI (172 BAR) |
| Hydraulic Flow | Up to 33 GPM (7.5 m³/h) |
| Hydraulic Line Length | 300' (91 m) max |
| Solids Handling | Up to 3" (75 mm) in diameter |
| Pump Speed (RPM) | Up to 2200 RPM |
| Impeller Diameter | 9.134" (232 mm) |
| Discharge | 4" (100 mm) FNPT |
| Hydraulic Connections | 1" (25 mm) quick disconnect feed and return; 0.5" (13 mm) quick disconnect case drain |
| Strainer | Nylon coated with 3" (75 mm) square apertures |

Power Pack

| | |
|-------------------------|--------------------------------|
| Engine | 4024T 41 HP (31 kW) @ 2200 RPM |
| Fuel Consumption | 2.3 GPH (8.7 LPH) @ 2200 RPM |
| Fuel Tank Capacity | 60 gallons (227 l) |
| Output Hydraulic Flow | 33 GPM (7.5 m³/h) |
| Output Pressure Control | Up to 2500 PSI (172 BAR) |
| Hydraulic System | Two pipe, open circuit |
| Reservoir | 40 gallons (151 l) |
| Control Valve | Through variable speed engine |
| Connections | 1" (25 mm) API |
| Supply Line Filter | 125 micron, pleated gauze |
| Return Line Filter | 20 micron |

Home Office:

Godwin Pumps of America, Inc.
One Floodgate Road
Bridgeport, NJ 08014 USA
(856) 467-3636 • Fax: (856) 467-4841
Email: sales@godwinpumps.com
godwinpumps.com

