

Heidra 103 Pump

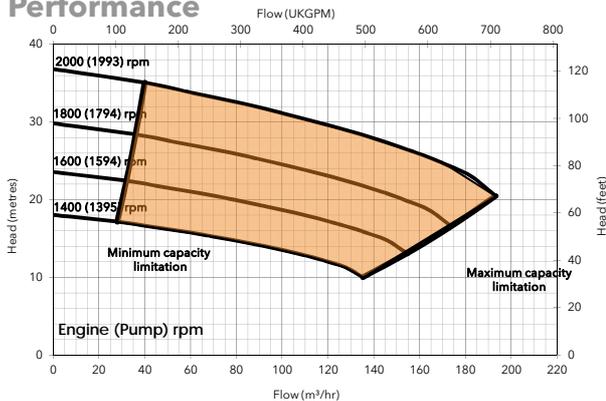
The Godwin Heidra 103 hydraulic submersible pump is a compact self-contained pumping unit featuring a diesel driven power pack and hydraulic pump end. With variable speed diesel engine power, the Heidra 103 can meet a variety of flow and head requirements up to 193 m³/hr and total dynamic head requirements up to 35 metres.

It has the ability to handle solids up to 75 mm in diameter. It also has dry running capabilities, a cast steel impeller, providing a rugged dewatering / solids handling, hydraulic submersible pump ready to go anywhere.

Features

- Optional 100 mm bauer discharge connection. The quick release lever allows pipe work to be connected & disconnected very easily.
- Double mechanical seal in its own clean oil bath allows for indefinite dry running. Inboard seal: silicon carbide. Outboard seal: carbon or ceramic.
- Gear motor connections are standard SAE flange & shaft. Which allows easy connection to plug directly into bearing bracket.
- This special design allows the pump to fit down a standard 22 inch Manhole.
- Open solid handling impellers with replaceable wearplates.
- Safe pump end no risk of electric shock or explosion.
- Alternative powerpack options available e.g. Highway trailer, Site trolley. Electric motor drive option also available.
- Godwin Power Pack GHPU15 as standard.

Performance



Reference number : 95-1208-1000
 Date of issue : 25 February 2014
 Issue : 4



TLPN: HS103-01-001

Specifications

| | |
|---------------------------|------------------------|
| Suction connection | 100 mm with strainer |
| Delivery connection | 4" BSP (F) |
| Max capacity | 193 m ³ /hr |
| Max Head | 35 metres |
| Max operating speed | 2000 rpm |
| Max Impeller diameter | 256 mm |
| Max operating temperature | 60 °C * |
| Max pressure | 3.6 bar |
| Max suction pressure | 1.7 bar |
| Max casing pressure | 5.4 bar |
| Max Solids handling | 75 mm |

* Please contact our office for applications in excess of maximum temperature.

Materials

| | |
|------------------------------------|--|
| Pump casing & suction cover | Cast iron CI BS EN1561/EN-JL1030 (220) |
| Wearplates | Cast iron CI BS EN1561/EN-JL1030 (220) |
| Pump Shaft | Carbon Steel 080M40 |
| Impeller | Cast Steel EN10293/A5 |
| Mechanical Seal Face | Silicon Carbide vs Silicon Carbide |
| Suction Strainer & Lifting Bracket | Fabrication Mild Steel tube and plate. |

Pump end - dimensions

| | |
|------------|--------|
| Length | 410 mm |
| Width | 520 mm |
| Height | 650 mm |
| Dry Weight | 135 kg |

Hydraulic Drive data

| | |
|------------------------------|-----------|
| Hydraulic Drive pressure | 250 bar |
| Pump speed | 2000 rpm |
| Hydraulic motor | Gear type |
| Hydraulic motor displacement | 28 cc/rev |
| Hydraulic Flow | 50 l/min |

Please contact the factory or office for further details.
 A typical picture of the pump is shown.
 All information is approximate and for general guidance only.

Godwin Hydraulic Power Pack

Power Pack - GHPU15 404D-22T

General data

| | |
|---|-----------|
| Engine: Perkins 404D-22T (31 kW @ 2000 rpm) | |
| Engine speed | 2000 rpm |
| Hydraulic Pump | Gear type |
| Hydraulic pump displacement | 29 cc/rev |
| Output flow | 50 l/min |
| Hydraulic reservoir capacity | 80 litres |

Open set configuration

TLPN: GHPU15-DBO-002



Dimensions

| | |
|---------------------------|------------|
| Length | 1800 mm |
| Width | 1000 mm |
| Height | 1900 mm |
| Wet weight | 1,300 kg |
| Fuel tank capacity (Full) | 170 litres |

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Maximum hose lengths

| | | | | |
|-------------------|------|------|------|------|
| Engine (rpm) | 1400 | 1600 | 1800 | 2000 |
| Max Length (mtrs) | 60 | 50 | 40 | 30 |

Hydraulic Hose

| | |
|-------------|---|
| Feed/Return | 19 mm (¾") BSP Quick Disconnect & 19 mm (¾") NB pipe. |
| Bleed Line | 10 mm (¾") BSP Quick Disconnect & 16 mm (½") NB pipe. |

Hush-Pac configuration

TLPN: GHPU15-DBH-002



Dimensions

| | |
|---------------------------|------------|
| Length | 2190 mm |
| Width | 1045 mm |
| Height | 1500 mm |
| Wet weight | 1,425 kg |
| Fuel tank capacity (Full) | 180 litres |

Acoustic information

| Engine | Speed (rpm) | Average Sound Pressure rating (dbA) | | |
|---------|-------------|-------------------------------------|-----|-----|
| | | 1 m | 3 m | 7 m |
| Hushpac | 1400 | 72 | 67 | 64 |
| | 1800 | 75 | 70 | 65 |
| | 2000 | 77 | 71 | 66 |

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