

Heidra 300 Pump

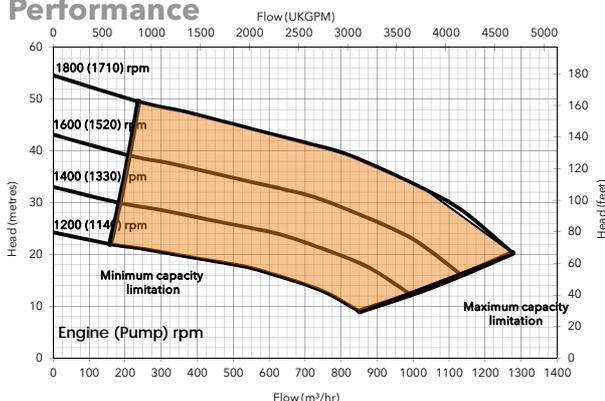
The Godwin Heidra 300 hydraulic submersible pump is a compact self-contained pumping unit featuring a diesel driven power pack and hydraulic pump end. With variable speed diesel engine power, the Heidra 300 can meet a variety of flow and head requirements up to 1,277 m³/hr and total dynamic head requirements up to 50 metres.

It has the ability to handle solids up to 95 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

- 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.
- Gear motor connections are standard SAE flange & shaft. Which allows easy connection to plug directly into bearing bracket.
- Standard impeller is designed for general pumping, slurries and sludges.
- 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 GHPU90 as standard.

Performance



Reference number : 95-1214-1000
 Date of issue : 10 March 2014
 Issue : 5



TLPN: HS300-01-001

Specifications

| | |
|---------------------------|-----------------------------|
| Suction connection | 300 mm with strainer |
| Delivery connection | 300 mm (12" BS10 Table 'D') |
| Max capacity | 1277 m ³ /hr |
| Max Head | 50 metres |
| Max operating speed | 1800 rpm |
| Max Impeller diameter | 362 mm |
| Max operating temperature | 60 °C * |
| Max pressure | 5.4 bar |
| Max suction pressure | 4.0 bar |
| Max casing pressure | 8.0 bar |
| Max Solids handling | 95 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 | FRONT - Cast Iron, abrasion resistant, BS EN12513 REAR - Cast Iron EN1561 (220) |
| Pump Shaft | Nickel Chrome Steel to BS970 Grade M40 EN24T |
| Impeller | Cast Steel EN10293/A5 |
| Mechanical Seal Face | Double mech seal inboard Sic v Sic Outboard Sic v C |
| Suction Strainer & Lifting Bracket | Fabrication Mild Steel tube and plate. |

Pump end - dimensions

| | |
|------------|---------|
| Length | 1400 mm |
| Width | 1055 mm |
| Height | 1830 mm |
| Dry Weight | 950 kg |

Hydraulic Drive data

| | |
|------------------------------|-------------|
| Hydraulic Drive pressure | 275 bar |
| Pump speed | 1800 rpm |
| Hydraulic motor | Piston type |
| Hydraulic motor displacement | 180 cc/rev |
| Hydraulic Flow | 320 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 - GHPU90

C9

General data

| | |
|--|-------------|
| Engine: Caterpillar C9 (205 kW @ 1800 rpm) | |
| Engine speed | 1800 rpm |
| Hydraulic Pump | Piston type |
| Hydraulic pump displacement | 180 cc/rev |
| Output flow | 320 l/min |
| Hydraulic reservoir capacity | 320 litres |

Open set configuration

TLPN: GHPU90-DBO-001



Dimensions

| | |
|---------------------------|------------|
| Length | 3700 mm |
| Width | 1700 mm |
| Height | 2200 mm |
| Wet weight | 5,300 kg |
| Fuel tank capacity (Full) | 850 litres |

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Maximum hose lengths

| | | | | |
|-------------------|------|------|------|------|
| Engine (rpm) | 1200 | 1400 | 1600 | 1800 |
| Max Length (mtrs) | 60 | 50 | 40 | 30 |

Hydraulic Hose

| | |
|-------------|---|
| Feed/Return | Twin feed & return, 32 mm (1¼) N.B. Braided hose. |
| Bleed Line | Low pressure 19 mm (¾") N.B. |

Hush-Pac configuration

TLPN: GHPU90-DBH-001



Dimensions

| | |
|---------------------------|------------|
| Length | 4580 mm |
| Width | 2065 mm |
| Height | 2545 mm |
| Wet weight | 6,475 kg |
| Fuel tank capacity (Full) | 772 litres |

Acoustic information

| Engine | Speed (rpm) | Average Sound Pressure rating (dbA) | | |
|---------|-------------|-------------------------------------|-----|-----|
| | | 1 m | 3 m | 7 m |
| Hushpac | 1600 | 74 | 70 | 65 |
| | 1800 | 78 | 75 | 70 |
| - | - | - | - | - |

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