

Heidra 150V SG Pump

LENNTECH
WATER TREATMENT SOLUTIONS

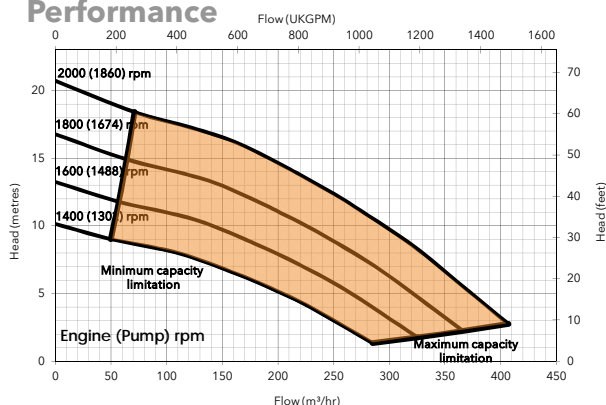
The Godwin Heidra 150V SG hydraulic submersible pump is a compact self-contained pumping unit featuring a diesel driven power pack and hydraulic pump end. With variable speed diesel engine power, the Heidra 150V SG can meet a variety of flow and head requirements up to 407 m³/hr and total dynamic head requirements up to 18 metres.

It has the ability to handle solids up to 125 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

- Fully recessed vortex impeller will handle solids up to 125 mm in diameter.
- 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 the bearing bracket to plug directly together.
- The Vortex impeller design provides extremely generous solids handling capabilities.
- The SG (Slurry Gate) pump is designed specifically for handling slurries & sludges in addition to general pumping.
- 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 GHPU30 as standard.

Performance



TLPN: HS150VSG-01-001

Specifications

| | |
|---------------------------|------------------------|
| Suction connection | 150 mm with strainer |
| Delivery connection | 6" BSP (F) |
| Max capacity | 407 m ³ /hr |
| Max Head | 18 metres |
| Max operating speed | 2000 rpm |
| Max Impeller diameter | 280 mm |
| Max operating temperature | 60 °C * |
| Max pressure | 2.0 bar |
| Max suction pressure | 2.0 bar |
| Max casing pressure | 3.0 bar |
| Max Solids handling | 125 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 | 821 mm |
| Width | 466 mm |
| Height | 1067 mm |
| Dry Weight | 260 kg |

Hydraulic Drive data

| | |
|----------------------------------|-----------|
| Maximum Hydraulic Drive pressure | 250 bar |
| Pump speed | 1860 rpm |
| Hydraulic motor | Gear type |
| Hydraulic motor displacement | 60 cc/rev |
| Hydraulic Flow | 100 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.

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Godwin Hydraulic Power Pack

Power Pack - GHPU30 1104D-44T

General data

| | |
|--|------------|
| Engine: Perkins 1104D-44T (55 kW @ 2000 rpm) | |
| Engine speed | 2000 rpm |
| Hydraulic Pump | Gear type |
| Hydraulic pump displacement | 59 cc/rev |
| Output flow | 100 l/min |
| Hydraulic reservoir capacity | 230 litres |

Open set configuration

TLPN: GHPU30SG-DBO-002



Dimensions

| | |
|---------------------------|------------|
| Length | 2500 mm |
| Width | 1300 mm |
| Height | 2135 mm |
| Wet weight | 2,050 kg |
| Fuel tank capacity (Full) | 390 litres |

Maximum hose lengths

| | | | | |
|-------------------|------|------|------|------|
| Engine (rpm) | 1400 | 1600 | 1800 | 2000 |
| Max Length (mtrs) | 60 | 50 | 45 | 30 |

Hydraulic Hose

| | |
|-------------|---|
| Feed/Return | 25 mm (1") BSP Quick Disconnect & 25 mm (1") NB pipe. |
| Bleed Line | 13 mm (½") BSP Quick Disconnect & 13 mm (½") NB pipe. |

Hush-Pac configuration

TLPN: GHPU30SG-DBH-002



Dimensions

| | |
|---------------------------|------------|
| Length | 2890 mm |
| Width | 1303 mm |
| Height | 2100 mm |
| Wet weight | 2,225 kg |
| Fuel tank capacity (Full) | 340 litres |

Acoustic information

| Engine | Speed (rpm) | Average Sound Pressure rating (dbA) | | |
|---------|-------------|-------------------------------------|-----|-----|
| | | 1 m | 3 m | 7 m |
| Hushpac | 1200 | 71 | 64 | 64 |
| | 1800 | 76 | 69 | 66 |
| | 2000 | 77 | 76 | 74 |

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