

Heidra 150MR SG Hydraulic Submersible Pump

The Godwin Heidra 150MR SG hydraulic submersible pump is a compact self-contained pumping unit featuring a diesel driven power pack and 6" hydraulic pump end. With variable speed diesel engine power, the Heidra 150MR SG can meet a variety of flow and head requirements up to 520 m³/hr and total dynamic head requirements up to 47 metres.

It has the ability to handle solids up to 65 mm in diameter. It also has dry running capabilities, a cast chromium steel impeller, providing a rugged dewatering / solids handling, hydraulic submersible pump ready to go anywhere.



Features

- 150 mm 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 two-bolt SAE flange & shaft. Which allows the bearing bracket to plug directly together.
- 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.
- Simple and reliable operation, no valves & requires little maintenance.
- Alternative options available e.g. Highway trailer, Site trolley.

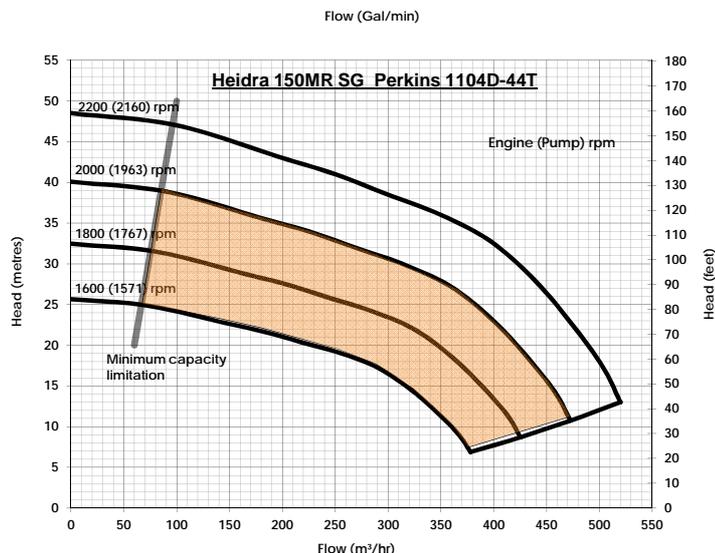
Specifications

Inlet diameter	150 mm with strainer
Discharge connection	150 mm (6" BS10 Table 'D')
Max capacity	520 m ³ /hr
Max Head	47 metres
Solids handling	65 mm
Impeller diameter	280 mm
Max operating temp	80 °C
Max working pressure	4.8 Pressure (bar)
Max suction pressure	1.7 Pressure (bar)
Max casing pressure	7.1 Pressure (bar)
Max operating speed	2200 rpm
Fuel tank capacity	390 litres
Fuel consumption (BEP) 12.4 kW @ 2000 rpm	6.1 litres/hour

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Performance Curve



Materials

Pump casing	Cast iron to BS1452 Grade 220.
Wearplates	Cast Iron to BS1452 Grade 220 Nitrided.
Pump Shaft	Carbon Steel BS 970-3:1991 080M40
Impeller	Cast Steel BS 3100:1991 Grade BW2.
Mechanical Seal Faces	Silicon Carbide vs Silicon Carbide
Suction Strainer and Lifting Bracket	Fabrication Mild Steel tube and plate.

Power pack - GHPU30

Engine : Perkins 1104D-44T (54.7 kW @ 2000 rpm)	
Engine speed	2000 rpm
Hydraulic motor	Gear type
Hydraulic pump displacement	60 cc/rev
Output flow	100 l/min
Wet weight	2,250 kg
Hydraulic reservoir capacity	200 litres

Pump end

Drive pressure	250 Pressure (bar)
Pump speed	1964 rpm
Hydraulic motor	Gear type
Hydraulic motor displacement	55 cc/rev
Flow	100 l/min
Wet Weight	185 kg

Power pack dimensions

Length	2500 mm
Width	1300 mm
Height	1900 mm

Pump end dimensions

Length	785 mm
Width	520 mm
Height	1000 mm

Hydraulic Hose

Feed/Return	25 mm (1") BSP x 25 mm (1") NB pipe.
Bleed Line	13 mm (½") BSP x 13 mm (½") NB pipe.

Maximum hose lengths

Engine (rpm)	2000	2200	2400	2600
Max Length (mtrs)	40	35	30	20

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Performance data provided in tables is based on water tests at sea level and 20°C ambient.
All information is approximate and for general guidance only.

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