

# Godwin NC150S Dri-Prime<sup>®</sup> Pump

The Godwin NC150S Dri-Prime pump is designed for use in municipal wastewater applications that contain stringy, modern waste. This unique self-cleaning, non-clog pump is recommended for sewer, lift station, and bypass applications, and is ideal for permanent installations where reliability is absolutely critical, e.g. Diesel Backup Systems (DBS).

This is the first in a series of Godwin S Series 'Smart' pumps, with significantly improved pumping efficiency, greater fuel economy, easier operation, and reduced maintenance. Field Smart Technology (FST) is available for remote monitoring and control, and diesel engines that meet local regulations.



## Features and benefits

- Flygt 'non-clog' N-Technology to avoid ragging and downtime caused by modern waste.
- Field Smart Technology (FST) allows the user to monitor & control the pump from anywhere in the world.
- New compressor belt tensioner reduces time to change and adjust belt to approximately 30 minutes.
- New sight glass and measuring stick added to monitor level and quality of mechanical seal oil.
- Improved hydraulic design reduces vibration, maximizes efficiency and fuel economy.
- Fully automatic priming from dry to 8.5 metres (28 ft).
- Venturi priming requires no adjustment or control.
- Available as open set or Sound Attenuated Enclosure.
- Standard build engine Perkins 404D-22TFC (EU Stage 3A)
- Other engine options available.

## Specifications

|                       |                                     |
|-----------------------|-------------------------------------|
| Suction connection    | 150 mm (6 in) flange                |
| Delivery connection   | 150 mm (6 in) flange                |
| Max capacity          | 370 m <sup>3</sup> /hr (1630 USGPM) |
| Max impeller diameter | 286 mm (11.3 in)                    |
| Max operating temp    | 80°C (176 °F)*                      |
| Max working pressure  | 6 bar (87 psi)                      |
| Max suction pressure  | 4 bar (58 psi)                      |
| Max casing pressure   | 7.5 bar (109 psi)                   |
| Max operating speed   | 2200 rpm                            |

\* Please contact our office for applications in excess of 80°C (176 °F).

† Larger diameter pipes may be required for maximum flows.

## Materials

|                       |  |
|-----------------------|--|
| Pump casing           | Cast Iron BS EN 1561 / EN-JL1030                               |
| Wearplates            | Front - Hard Iron EN12513:2000<br>Rear - Cast Iron BS1561:1997 |
| Pump Shaft            | Carbon steel BS970:1991 817M40T                                |
| Impeller              | Hard Iron EN12513:2000   |
| Mechanical Seal Faces | Silicon carbide Vs Silicon carbide                             |



Reference number: 95-1810-1000

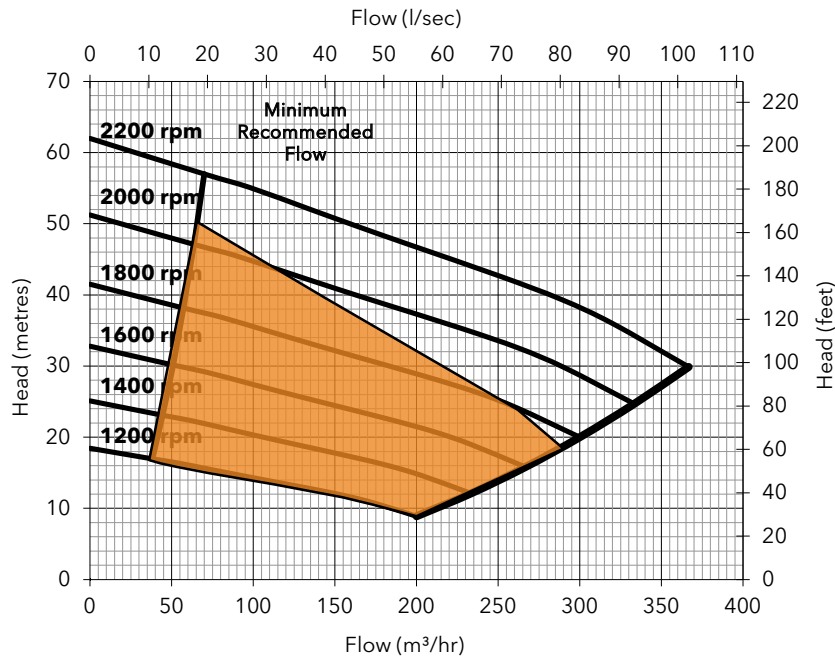
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UK, Australia, EMEA, APAC

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.

## Performance curve



## Suction lift table 1800 rpm

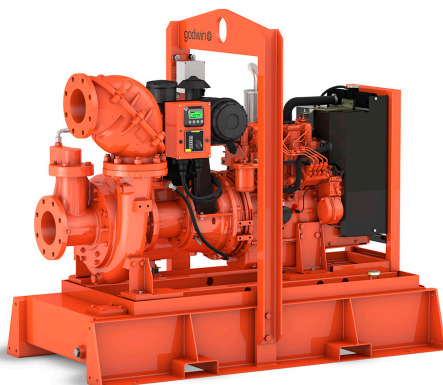
| Total suction Head (metres) | Total Delivery Head (metres) |     |     |     |     |
|-----------------------------|------------------------------|-----|-----|-----|-----|
|                             | 8                            | 15  | 20  | 28  | 30  |
|                             | Output (m³/hr)               |     |     |     |     |
| 3                           | 300                          | 280 | 250 | 150 | 120 |
| 4.6                         | 280                          | 260 | 230 | 130 | 100 |
| 6.1                         | 242                          | 230 | 210 | 110 | -   |
| 7.6                         | 175                          | 170 | 150 | 80  | -   |

Pump curve is engine specific and based on 0ft (0m) dynamic suction lift.

## Open skidbase

|  |
|--|
| Engine Perkins 404D-22T FC   |
| Engine power 33.5 kW (45 hp) @ 1800 rpm                                      |
| Emissions standard EU Stage 3A/EPA Tier 3                                    |
| Impeller diameter 286 mm (11.3 in)   |
| Pump speed 1800 rpm  |
| Fuel capacity 170 litres (45 US Gal)   |
| Fuel consumption @ 1500 rpm 7.1 l/hr (1.9 US Gal/hr)                         |
| Weight dry 1260 kg (2780 lb)   |
| Weight wet 1410 kg (3110 lb)   |
| Dimensions L 1800 mm x W 930 mm x H 1585 mm<br>(L 70 in x W 37 in x H 62 in) |

Performance data provided in tables is based on water tests at sea level and 20°C (68°F) ambient. All information is approximate and for general guidance only. Please contact the factory or office for further details.



## Sound attenuated enclosure

|   |
|---|
| Engine Perkins 404D-22T FC  |
| Engine power 33.5 kW (45 hp) @ 1800 rpm                                       |
| Emissions standard EU Stage 3A/EPA Tier 3                                     |
| Noise @ 7m (23 ft) 63 db(A)   |
| Impeller diameter 286 mm (11.3 in)  |
| Pump speed 1800 rpm   |
| Fuel capacity 150 litres (40 US Gal)  |
| Fuel consumption @ 1500 rpm 7.1 l/hr (1.9 US Gal/hr)                          |
| Weight dry 1440 kg (3170 lb)  |
| Weight wet 1570 kg (3460 lb)  |
| Dimensions L 2460 mm x W 1045 mm x H 1743 mm<br>(L 97 in x W 41 in x H 69 in) |

Performance data provided in tables is based on water tests at sea level and 20°C (68°F) ambient. All information is approximate and for general guidance only. Please contact the factory or office for further details.



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