

# Godwin BD150T Self-Priming Pump



The Godwin BD150T self-priming pump is an extremely powerful yet compact pump with flow capabilities of up to 510 m<sup>3</sup>/hr and discharge heads of up to 43 metres, designed for use in construction, municipal, industrial, and emergency response applications.

The pump is available in two priming options; venturi prime (compressed air driven) and vacuum prime, which can handle solids up to 75 mm, making the pump suitable to perform in the toughest conditions.

The BD150T offers improved hydraulic design for greater efficiency, fuel economy, and better serviceability, all in a more cost-effective package.

## Specifications

|                           |                                                   |
|---------------------------|---------------------------------------------------|
| Suction connection        | 150 mm (6 in) flange                              |
| Delivery connection       | 150 mm (6 in) flange                              |
| Max capacity              | 510 m <sup>3</sup> /hr (2,245 USGPM) <sup>1</sup> |
| Max impeller diameter     | 275 mm (10 4/5 in)                                |
| Max solids handling       | 75 mm (3 in)                                      |
| Max operating temperature | 80°C (176°F) <sup>2</sup>                         |
| Max pressure              | 4.3 bar (62 psi)                                  |
| Max suction pressure      | 4.0 bar (58 psi)                                  |
| Max casing pressure       | 7.5 bar (108 psi)                                 |
| Max operating speed       | 2000 rpm                                          |

<sup>1</sup> Larger diameter pipes may be required for maximum flows.

<sup>2</sup> Please contact our sales and product support for applications in excess of 80°C (176°F).

## Features and benefits

- Fully automatic priming from dry to 8.5 meters suction lift.
- Two self-priming options – vacuum priming and venturi priming
- Extensive application flexibility. It will handle sewage, slurries and liquids with solids up to 75 mm in diameter.
- Dry-running with abrasion resistant silicon carbide faces.
- Control panel has key start-stop, ammeter, hour meter, and low oil pressure indicator.
- Available as open skidbase or 2-wheel site trailer or 4-wheel site trolley.
- Standard engines are compliant with regional emissions legislation.
- Optional fork lift pockets and four point lifting frame.
- Close coupled pump design eliminates tedious realignments.
- All cast iron construction (stainless steel construction option available) with cast steel impeller.
- Standard build engine; Kirloskar HA394 & HA694
- Electric motor and other engine options are available.

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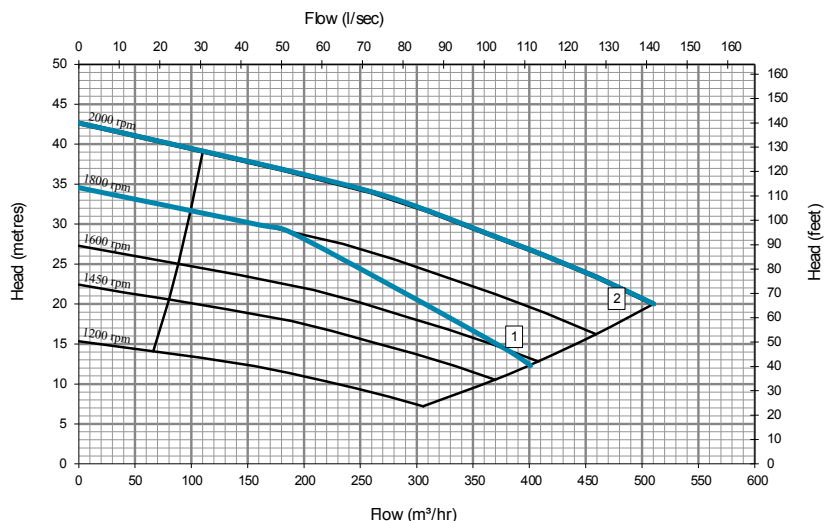
## Suction lift table 1450 rpm

Performance data provided in tables is based on water tests at sea level and 25°C (77°F) ambient.

| Total suction head (metre) | Total delivery head (metre) |     |     |    |   |
|----------------------------|-----------------------------|-----|-----|----|---|
|                            | 8                           | 12  | 17  | 21 | - |
|                            | Output (m <sup>3</sup> /hr) |     |     |    |   |
| 3.0                        | 403                         | 329 | 213 | 60 | - |
| 5.1                        | 393                         | 319 | 200 | 35 | - |
| 6.2                        | 383                         | 309 | 189 | -  | - |
| 7.7                        | 374                         | 297 | 171 | -  | - |

## Performance curve

Pump curve is based on 1 m (3.3 ft) dynamic suction lift.



## Materials

|                       |                                                  |
|-----------------------|--------------------------------------------------|
| Pump casing           | Cast Iron BS EN 1561/EN-JL1030/FG 200 IS210:2009 |
| Wearplates            | Cast Iron BS EN 1561/EN-JL1030/FG 200 IS210:2009 |
| Pump shaft            | EN24T/IS 1570/4-88 40Ni6Cr4Mo3                   |
| Impeller              | Cast Steel BS EN 10293:2005 G28Mn6               |
| Non-return valve body | Cast Iron BS EN 1561/EN-JL1030/FG 200 IS210:2009 |
| Mechanical seal faces | Silicon carbide Vs Silicon carbide               |

## Driver options

| Option | Driver          | Power kW (hp) | Fuel / Energy Use 1500 rpm | Emissions Rating |
|--------|-----------------|---------------|----------------------------|------------------|
| 1      | Kirloskar HA394 | 23.6 (32)     | 6.8 L/hr                   | Tier 2           |
| 2      | Kirloskar HA694 | 62.6 (85)     | 17 L/hr                    | Tier 2           |

Note: Electric motors and other engine options are available.

## Priming

| Option | Priming System Options | Air Handling Capacity |
|--------|------------------------|-----------------------|
| 1      | Venturi Prime          | 9.8 CFM               |
| 2      | Vacuum Prime           | 60 CFM                |

The Venturi prime is primary and the Vacuum prime is an option.

## Open skidbase

Information provided is based on the Kirloskar HA394 & HA694.

| Driver                 | HA394                                                  | HA694                                                  |
|------------------------|--------------------------------------------------------|--------------------------------------------------------|
| Fuel capacity          | 140 L (37 US Gal)                                      | 190 L (50 US Gal)                                      |
| Weight (Dry)           | 990 kg (2,183 lb)                                      | 1,230 kg (2,712 lb)                                    |
| Weight (Wet)           | 1,130 kg (2,491 lb)                                    | 1,420 kg (3,131 lb)                                    |
| Dimensions (L x W x H) | 1,912 mm x 1,220 mm x 1,405 mm (75 in x 48 in x 55 in) | 2,478 mm x 1,220 mm x 1,370 mm (98 in x 48 in x 54 in) |

## Open trailer

|                        | HA394                                               | HA694                                                |
|------------------------|-----------------------------------------------------|------------------------------------------------------|
| Weight                 | 1,125 kg (2,480 lb)                                 | 1,420 kg (3,131 lb)                                  |
| Dimensions (L x W x H) | 1977 mm x 1570 mm x 1588 mm (78 in x 62 in x 63 in) | 2530 mm x 1566 mm x 1653 mm (100 in x 62 in x 65 in) |

