

CD103M Dri-Prime® Pump

CD103M

The Godwin Dri-Prime® CD103M pump is an extremely powerful yet compact pump with flow capabilities to 232 m³/hr and discharge heads to 51 metres.

The CD103M features the unique Godwin high pressure oil bath mechanical seal design. This allows for totally dry running for indefinite periods while automatically priming and repriming. Able to perform in the toughest conditions, the CD103M can handle solids up to 75 mm in diameter. This makes it an extremely effective pump, suitable for both slurry and clean water applications. The powerful CD103M has proven itself a pump of choice for sewage handling, dewatering, local authority usage and many other applications.



Features

- Fully automatic priming from dry to 8.5 metres suction lift.
- Godwin Dri-Prime® is a continuously operated Venturi air ejector priming device which requires no periodic adjustment or control.
- Extensive application flexibility. It will handle sewage, slurries and liquids with solids up to 75 mm in diameter.
- Dry-running high pressure oil bath mechanical seal, with high abrasion resistant silicon carbide faces.
- A Close-coupled centrifugal pump with Godwin Dri-Prime® system mounted to a diesel engine or electric drive.
- All cast iron construction (stainless steel construction option available) with cast steel impeller.
- Also available as hushpac or as a bareshaft pumpend.
- Standard engine Perkins 404D-22. Also available with Perkins 404D-22T and Perkins 403D-15

Specifications

Suction pipe	100 mm (4" BS10 Table 'D')
Delivery pipe	100 mm (4" BS10 Table 'D')
Max capacity	232 m ³ /hr
Max Head	51 metres
Solids handling	75 mm
Impeller diameter	256 mm
Max operating temp	80 °C
Max working pressure	5.5 bar
Max suction pressure	4.0 bar
Max casing pressure	8.3 bar
Max operating speed	2200 rpm
Fuel tank capacity	170 litres
Fuel consumption (BEP) 19.1 kW @ 1800 rpm	5.0 litres/hour

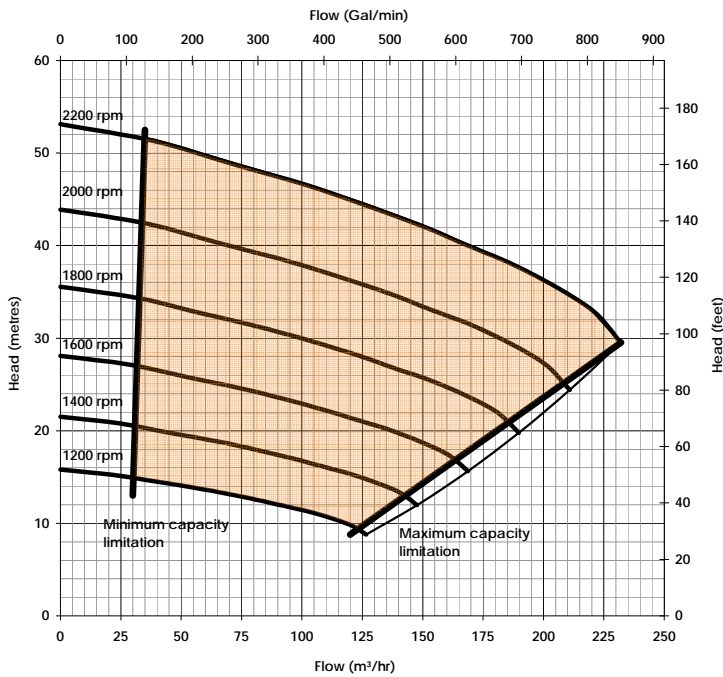


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Please contact Godwin Pumps Ltd for further details.
A typical picture of the pump is shown.
All information is approximate and for general guidance only.

Performance Curve



Materials

Pump casing & suction cover	Cast iron BS1452:1990 Grade 220
Wearplates	Cast iron to BS1452 Gr220
Pump Shaft	Carbon steel BS970-3:1991 080M40
Impeller	Cast Steel BS3100 A5 Hardness to 200 HB Brinell
Non-return Valve body	Cast Iron
Mechanical Seal Faces	Silicon carbide vs silicon carbide

Weight

CD103M with Perkins 404D-22 engine	Dry weight	984 kg
	Wet weight	1,129 kg
CD103M with Perkins 404D-22T engine	Dry weight	994 kg
	Wet weight	1,139 kg

Engine option 1

Perkins, 404D-22, 22.8 kW @ 1800 rpm

Impeller diameter 256 mm

Engine option 2

Perkins, 404D-22T, 30.9 kW @ 2000 rpm

Impeller diameter 256 mm

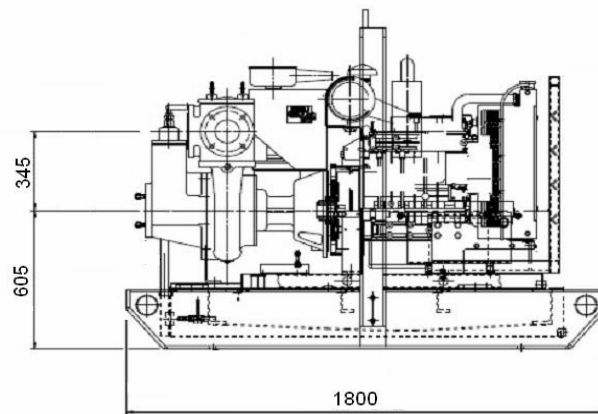
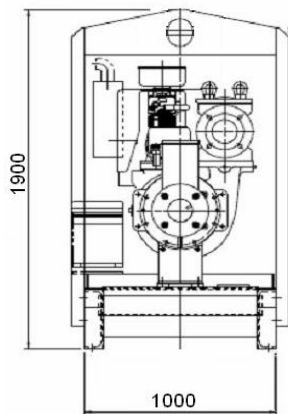
Suction Lift Table

Total Suction Head (metres)	Total Delivery Head (metres)				
	15	20	25	30	35
3.0	190	170	120	65	-
4.6	185	155	100	40	-
6.1	165	140	80	-	-
7.6	150	120	50	-	-

Suction Lift Table

Total Suction Head (metres)	Total Delivery Head (metres)				
	18	25	28	35	37
3.0	220	195	160	90	65
4.6	210	180	140	70	45
6.1	165	155	120	60	35
7.6	150	140	100	35	-

CD103M Perkins 404D-22



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Performance data provided in tables is based on water tests at sea level and 20°C ambient.
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