

Godwin CD100M Dri-Prime® Pump



The Godwin Dri-Prime CD100M pump is an extremely powerful yet compact pump with flow capabilities to 230 m³/hr and discharge heads to 38 metres.

The CD100M features the unique Godwin high pressure oil bath mechanical seal design. This allows for dry running for prolonged periods while automatically priming and repriming. Able to perform in the toughest conditions, the CD100M can handle solids up to 45 mm in diameter. This makes it an extremely effective pump, suitable for both slurry and clean water applications. The powerful CD100M has proven itself a pump of choice for sewer bypass, general dewatering and many other applications.

Specifications

Suction connection	100 mm (4 in) flange
Delivery connection	100 mm (4 in) flange
Max capacity	230 m ³ /hr (1,012 USGPM) ¹
Max impeller diameter	230 mm (9 1/16 in)
Max solids handling	45 mm (1 3/4 in)
Max operating temperature	80°C (176°F) ²
Max pressure	3.8 bar (55 psi)
Max suction pressure	2.8 bar (41 psi)
Max casing pressure	5.6 bar (81 psi)
Max operating speed	2200 rpm

¹ Larger diameter pipes may be required for maximum flows.

² 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 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 45 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.
- Available as Open Skidbase or Sound Attenuated Enclosure, both of which can be trailer mounted.
- Standard engines are compliant with regional emissions legislation.
- Other engine options are available.

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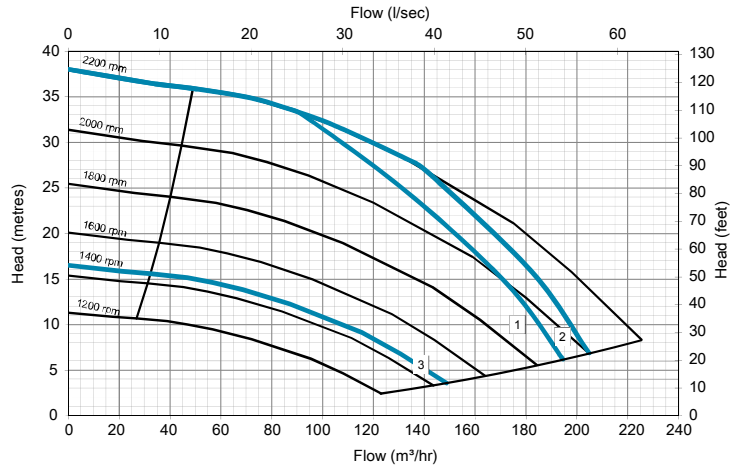
Suction lift table 1800 rpm

Performance data provided in tables is based on water tests at sea level and 20°C (68°F) ambient.

Total suction head (metre)	Total delivery head (metre)				
	2	7	10	13	15
	Output (m ³ /hr)				
3.0	170	155	140	120	97
4.6	160	145	130	110	80
6.1	125	118	110	95	70
7.6	80	75	70	60	40

Performance curve

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



Materials

Pump casing	Cast Iron BS EN 1561/EN-JL1030
Wearplates	Cast Iron BS1561:1997
Pump shaft	Carbon steel BS970:1991 817M40T
Impeller	Cast Steel BS3100 A5 Hardness to 200 HB Brinell
Mechanical seal faces	Silicon carbide Vs Silicon carbide

Driver options

Option	Driver	Power kW (hp)	Fuel / Energy Use 1800 rpm	Emissions Rating
1	Perkins 403J-17	18.4 (25)	5.5 L/hr	EU Stage 5
2	Perkins 403D-15	24.4 (33)	4 L/hr	EU Stage 3A
3	Electric Motor, 4 Pole, 50 Hz	11 (15)	12.5 L/hr	IE 3



Open skidbase

Information provided is based on the Perkins 403J-17.

Fuel capacity	140 L (37 US Gal)
Weight dry	885 kg (1,951 lb)
Weight wet	1,030 kg (2,271 lb)
Dimensions (L x W x H)	1,800 mm x 930 mm x 1,390 mm (71 in x 37 in x 55 in)

Sound attenuated enclosure

Information provided is based on the Perkins 403J-17.

Noise @ 23 ft (7 m)	64 dBA
Fuel capacity	148 L (39 US Gal)
Weight dry	1,075 kg (2,370 lb)
Weight wet	1,225 kg (2,700 lb)
Dimensions (L x W x H)	1,850 mm x 900 mm x 1,450 mm (73 in x 36 in x 57 in)