

CD80D Dri-Prime® Pump

WITH FINAL TIER 4 (FT4) DIESEL ENGINE

The Godwin Dri-Prime CD80D pump offers flow rates to 420 USGPM and has the capability of handling solids up to 1.6" in diameter.

The CD80D is able to automatically prime to 28' of suction lift from dry. Manual starting/stopping available through integral mounted control panel.

Indefinite dry-running is no problem due to the unique Godwin liquid bath mechanical seal design. Solids handling, dry-running, and portability make the CD80D the perfect choice for dewatering and bypass applications.



Features and Benefits

- Simple maintenance normally limited to checking fluid levels and filters.
- Dri-Prime (continuously operated Venturi air ejector priming device) requiring no periodic adjustment. Venturi has no moving parts for simple, reliable operation.
- Extensive application flexibility handling sewage, slurries, and liquids with solids up to 1.6" in diameter.
- Dry-running high pressure liquid bath mechanical seal with high abrasion resistant solid silicon carbide faces.
- Close-coupled centrifugal pump with Dri-Prime system coupled to a diesel engine or electric motor.
- All cast iron construction with cast steel impeller for increased impact resistance when pumping solids.
- Also available in a critically silenced unit which reduces noise levels to less than 70 dBA at 30'.
- Standard engine Yanmar 3TNV80F (FT4).

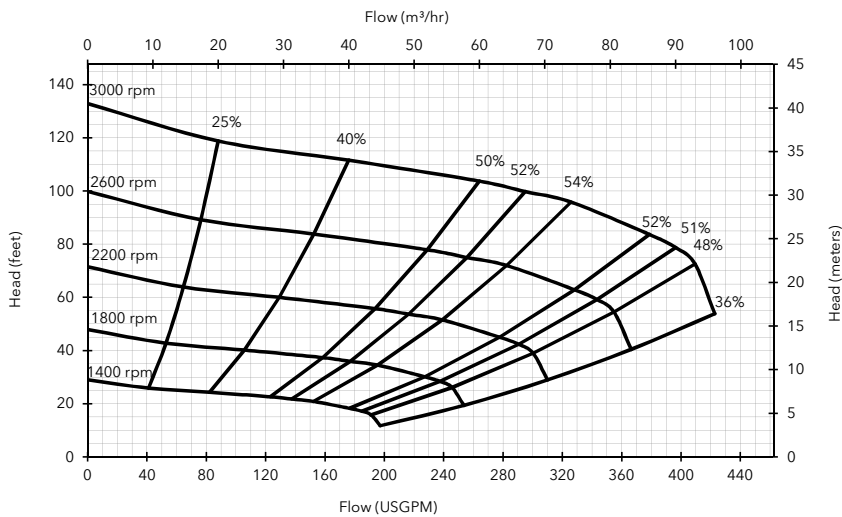
Specifications

Suction connection	3" FNPT
Delivery connection	3" FNPT
Max capacity	420 USGPM †
Max solids handling	1.6"
Max impeller diameter	6.5"
Max operating temp	176°F*
Max working pressure	58 psi
Max suction pressure	41 psi
Max casing pressure	87 psi
Max operating speed	3000 rpm

* Please contact our office for applications in excess of 176°F.

† Larger diameter pipes may be required for maximum flows.

Performance Curve



Materials

Pump casing & suction cover	Cast iron BS EN 1561 - 1997
Wearplates	Cast iron BS EN 1561 - 1997
Pump Shaft	Carbon steel BS 970 - 1991 817M40T
Impeller	Cast Steel BS3100 A5 Hardness to 200 HB Brinell
Non-return valve body	Cast iron BS EN 1561 - 1997
Mechanical seal	Silicon carbide face; Viton elastomers; Stainless steel body

Engine option 1

Yanmar 3TNV80F (FT4), 21 HP @ 3000 rpm

Impeller diameter 6.5"

Pump speed 3000 rpm

Suction Lift Table

Total Suction Head (feet)	Total Delivery Head (feet)				
	34	64	79	94	116
	Output (USGPM)				
10	429	396	343	264	66
15	416	363	297	-	-
20	363	297	198	-	-
25	297	231	99	-	-

Fuel capacity: 30 US Gal

Max fuel consumption @ 3000 rpm: 1.3 US Gal/hr

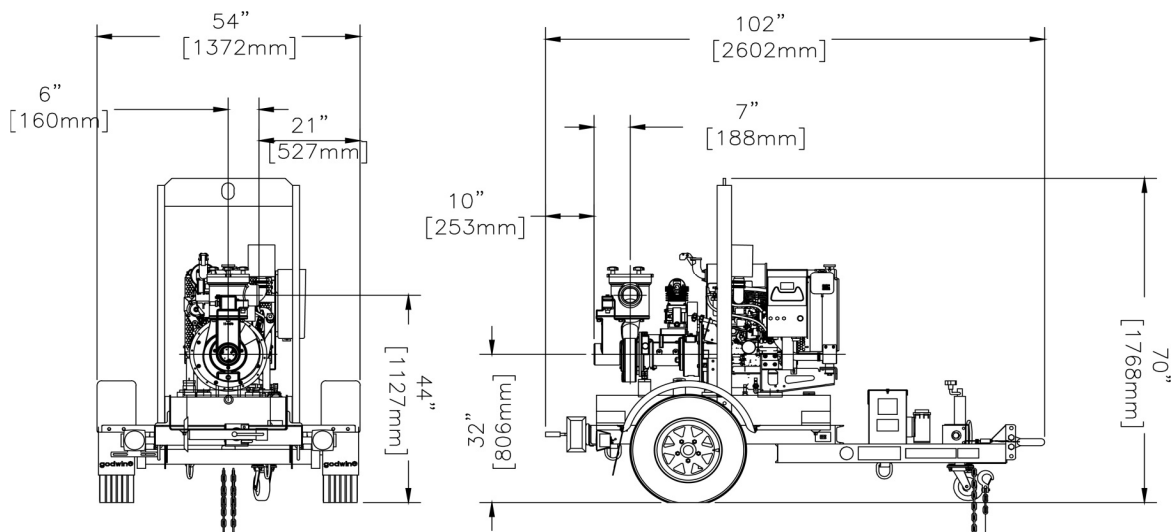
Max fuel consumption @ 2600 rpm: 0.9 US Gal/hr

Weight (Dry): 1,660 lbs

Weight (Wet): 1,880 lbs

Dim.: (L) 102" x (W) 54" x (H) 70"

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. Please contact the factory or office for further details.



84 Floodgate Road
Bridgeport, NJ 08014 USA
(856) 467-3636 . Fax (856) 467-4841

Reference number : 200GPA0000128
Date of issue : November 2, 2015
Issue : -

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