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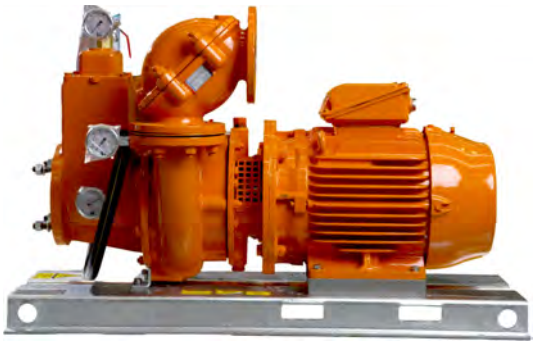
Let's Solve Water

The Godwin Rig Pump

Featuring our Godwin Dri-Prime and Flygt NC non-clog impeller technology



Dewatering activities in an underground mine, tunnel or quarry are considered some of the toughest and most dangerous applications for miners and their pumping equipment. Operating in these conditions often results in unplanned pump failures, unbudgeted repair costs, and safety hazards – reducing work efficiency and increasing downtime.

At Xylem, we have been strategic dewatering partners at your sites for more than 100 years – and with excitement we bring to you the Godwin Rig Pump. It is designed to operate in the harshest of conditions, complimenting your traditional dewatering methods while keeping safety, efficiency, and reliability at the forefront.

Mounted and installed into the drilling rig, it minimizes safety hazards, allowing operators to drill deeper, dewater faster and operate safer. The Godwin Rig Pump comes with our Dri-Prime self-priming system, which allows intermittent flow applications, combined with an oil–bath mechanical seal which enables it to dry-run indefinitely. The Godwin Rig Pump comes with our hard-iron Flygt NC non-clog impeller, handling troublesome shotcrete fibers, avoiding clogging and reducing abrasion to deliver increased operational efficiency.

Specifications

Suction connection	100 mm (4 in) flange
Delivery connection	80 mm (3 in) flange
Max capacity	160 m^3/hr (44 l/s/705 USGPM)[1]
Max impeller diameter	214 mm (8.4 in)
Max operating temperature	80°C (176°F)[2]
Max pressure	7 bar (101 psi)
Max suction pressure	2.8 bar (40 psi)
Max casing pressure	10.5 bar (152 psi)
Max operating speed	3,560 rpm

1 See overview of duty and performance in curve sheet.
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 m (28 ft) suction lift.
- Godwin Dri-Prime is a continuously operated Venturi air ejector priming device which requires no periodic adjustment or control.
- 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 an electric motor.
- Incorporates high efficiency N-Pump technology to avoid ragging/ shotcrete fibres and downtime caused by waste. This technology is utilized in over 300,000+ pumps worldwide already.
- Improved hydraulic design reduces vibration, maximizes efficiency, and power consumption.
- Compact - dry/machine mounted.

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Suction lift table

Impeller diameter – 214 mm (8.4 in) at 50 Hz, 2–pole speed

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

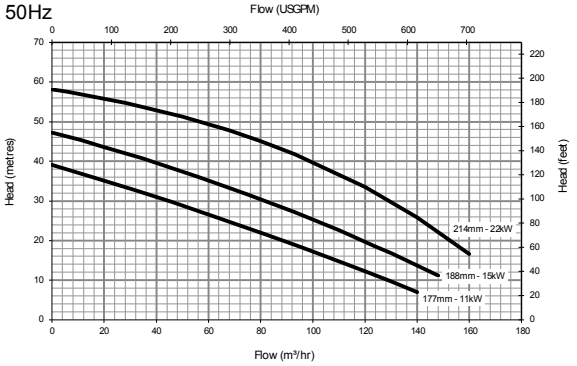
Total suction head	Total delivery head				
	15 m (49.2 ft)	23 m (75.4 ft)	30 m (98.4 ft)	38 m (124.6 ft)	45 m (147.6 ft)
	Output (m^3/hr)				
3.0 m (9.8 ft)	155	140	120	95	65
4.6 m (15 ft)	135	125	115	85	55
6.1 m (20 ft)	125	115	105	80	45
7.6 m (24.9 ft)	95	90	85	70	40

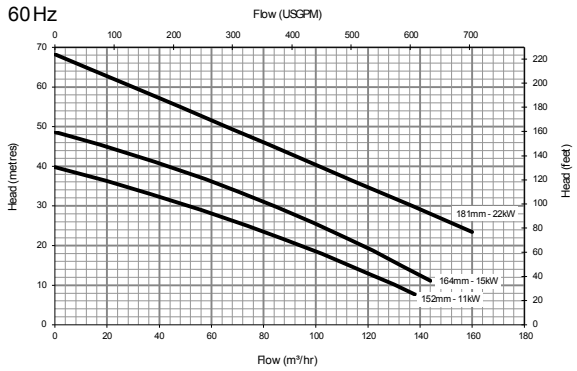
Materials

Pump casing	Cast Iron BS EN 1561/ ENJL1030
Wearplates	Cast Iron BS1561:1997
Pump shaft	316L stainless steel
Impeller	Hard Iron
Mechanical seal faces	Silicon carbide

Performance curve

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





Additional options

- Installation kits which includes brackets, hoses, etc.
- Engineering support from our Mining Centre of Excellence to integrate the Godwin Rig Pump into your rig.
- Alternate power options available through our custom solutions team.
- If the Godwin Rig Pump doesn't meet your needs, please contact our team of experts for support to identify the best solution.

Recommended compressed air requirement for effective priming : 10.7 CFM @ 100 PSI (18.17 CMH @ 6.89 bar)

Overall dimension of all the three models: 1100 mm x 510 mm x 770 mm (43.3 in x 20 in x 30.4 in)

Electric motor options

Model	Standard	Frequency (Hz)	Motor speed (rpm)	Impeller diameter	Overall weight (kg/lb)
22 kW	IEC	50	2955	214 mm (8.4 in)	370/815
		60	3560	181 mm (7.1 in)	375/826
	NEMA		3535		354/780
15 kW	IEC	50	2950	188 mm (7.4 in)	317/698
		60	3545	164 mm (6.5 in)	322/709
	NEMA		3520		317/698
11 kW	IEC	50	2950	177 mm (6.7 in)	315/694
		60	3550	152 mm (6 in)	320/705
	NEMA		3525		316/696

All motors have class H insulation and are IP66 as standard.

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