



# Flygt centrifugal grinder pumps

FOR HEAVY-DUTY SHREDDING APPLICATIONS

# Hard-working, heavy-duty grinders

The Flygt 3000 series of centrifugal grinder pumps are high-efficiency submersible centrifugal and suitable for handling solids-bearing liquids in residential, commercial and agricultural applications. Whether you need a single grinder pump, a complete pump stations or an entire wastewater system, you can count on Xylem for smart and economical delivery of wastewater to the nearest pump station or sewer main.

## Reliable operation

Engineered to meet the rigors of wastewater systems, Flygt grinder pumps feature a unique impeller for optimum hydraulic efficiency and a heavy-duty cutting device that grinds solids into  $5 \times 15$  mm particles for easy transport through small-diameter pipes. This eliminates the risk of clogging.



## Methods of installation

MP



Stationary wet installation with guide bars and automatic discharge connection bolted to the sump floor. When lowering a pump with guide bars, the pump automatically locks to, and is released from, the discharge connection.

MH



Stationary wet installation with the pump suspended from the discharge pipe. The quick connection joint has an integrated non-return valve.

MF



Stationary free-standing installation on legs without strainer. Pipe or hose connection.

# Built for trouble-free pumping

## BETTER HEAT TRANSFER

Our specially designed and manufactured motor provides enhanced cooling because heat losses are concentrated around the stator. Trickle impregnated in resin (Class F/H insulation) and enable up to 30 starts per hour.

## COMPLIANCE

Each pump is tested and approved in accordance with national and international standards, including IEC 34-1 and CSA. Pumps are available in explosion-proof versions for use in hazardous environments, and are approved by the Factory Mutual, European Standard and IEC.

## CABLE ENTRY

Water-resistant cable entry provides both sealing and strain relief functions to ensure a safe installation

## SENSORS

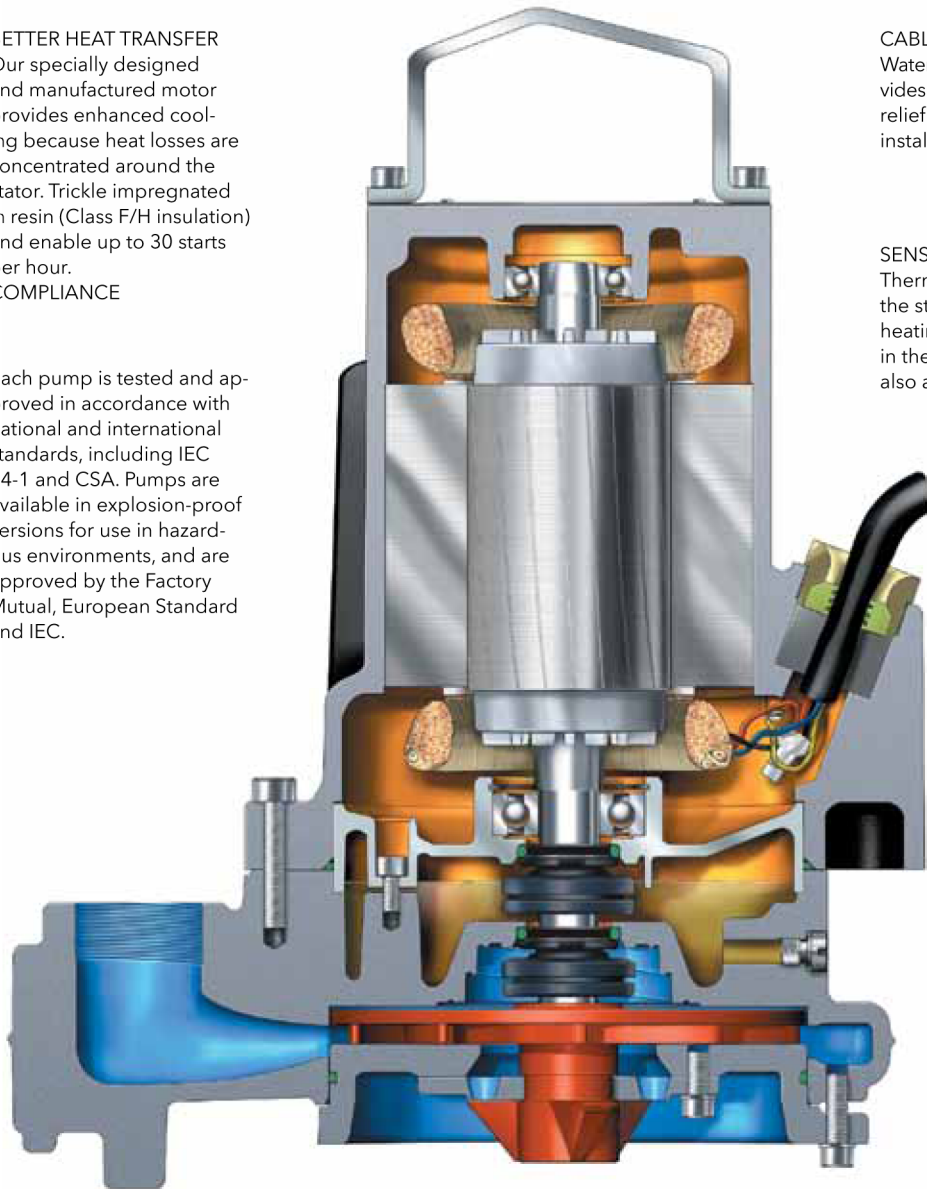
Thermal sensors embedded in the stator windings prevent overheating. Optional leakage sensors in the stator and oil housings are also available

## LONG-LIFE BEARINGS

Durable bearings provide a minimum service life of 50,000 hours.

## ENDURING SEALS

The Griploc™ system consists of two sets of mechanical shaft seals that operate independently to provide double security against leakage.



## LOW-DEFLECTION SHAFT

Virtually eliminates vibration and noise levels due to minimal overhang. Extends service life of seal and bearing.

## HEAVY-DUTY CUTTING DEVICE

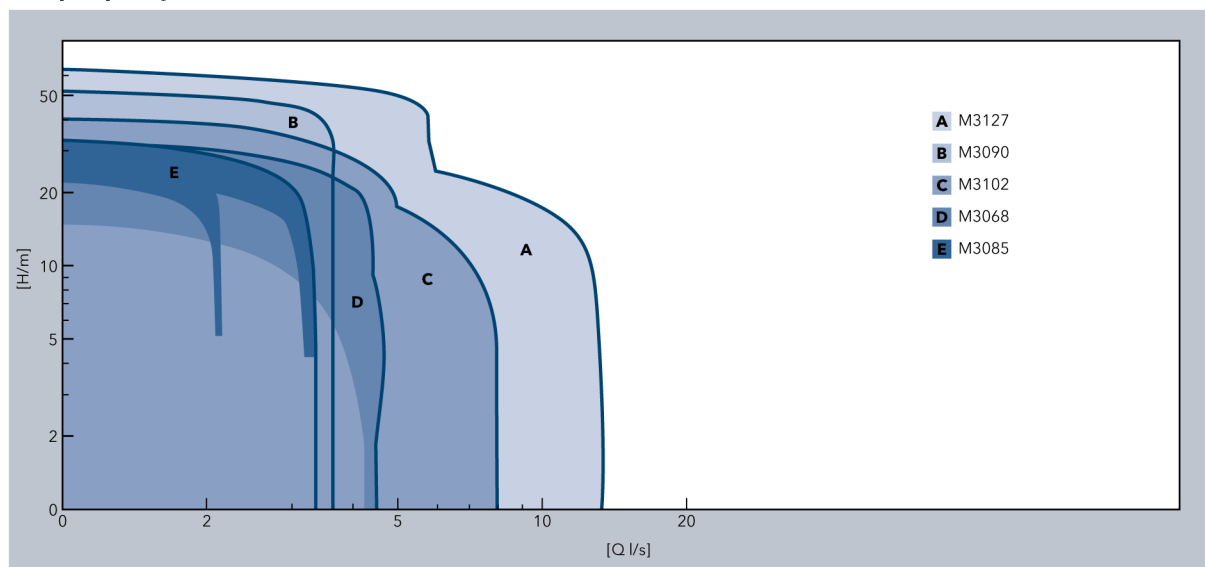
Shreds pumped solids into fine slurry as they pass through the pump inlet to enable unobstructed passage through the narrow pipes of the system.

# Powerful grinding performance

Based on a flexible, modular design, the Flygt grinder pump range cover an extensive performance range. These submersible single-stage centrifugal pumps share the same discharge diameter, which makes it easy to select one of the interchangeable impellers to precisely match your head and flow requirements now – and easily change it later. High efficiency minimizes electrical equipment installation costs and subsequent energy consumption.



**Pump capacity, 50 Hz**



**Technical specification**

Model	Rated power [kW]	Rated amperage [A]	Weight [kg]
3068 1 phase	1.5	8.9	32
3 phase	1.7-2.4	3.8-5.3	32
3085 1 phase	1.9	12	44
3 phase	1.8-2.4	3.6-4.8	44
3090	4.3	8.4	52
3102	4.4	8.6	75
3127	7.4-10.9	15-21	103

# Xylem ['zīləm]

- 1) The tissue in plants that brings water upward from the roots
- 2) A leading global water technology company

We're 12,000 people unified in a common purpose: creating innovative solutions to meet our world's water needs. Developing new technologies that will improve the way water is used, conserved, and re-used in the future is central to our work. We move, treat, analyze, and return water to the environment, and we help people use water efficiently, in their homes, buildings, factories and farms. In more than 150 countries, we have strong, long-standing relationships with customers who know us for our powerful combination of leading product brands and applications expertise, backed by a legacy of innovation.

For more information on how Xylem can help you, go to [xylem.com](http://xylem.com).

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