



Water & Wastewater

Flygt progressing-cavity grinder pump

An industrial-quality pump for the domestic user



Engineered for life

Small, competitive and made to last



Home-owners want an affordable, low-ampere pump that won't clog. Wastewater consultants want a pump to recommend that will last for many years.

The Flygt progressing-cavity pump has everything you require:

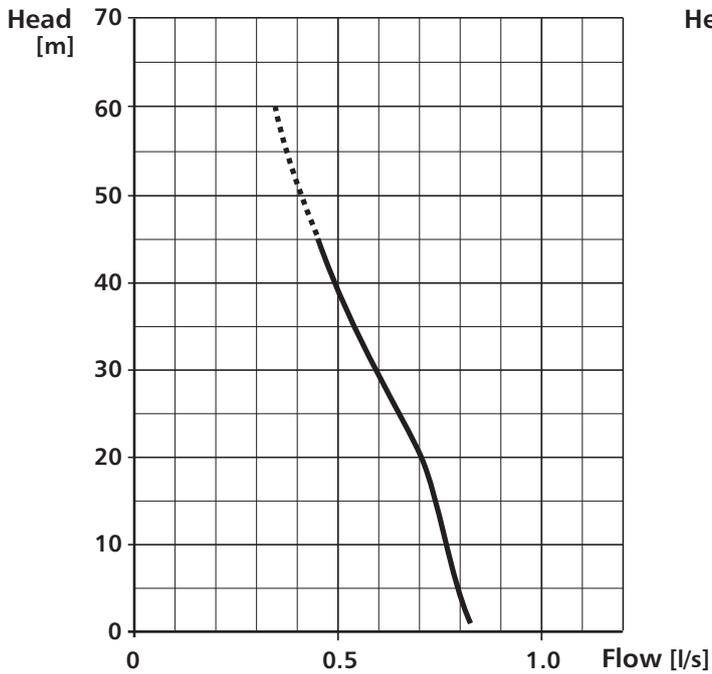
- It gives you the high head you need for pressure sewage pumping.
- It is powered by a small, low-ampere motor that runs from any standard domestic power supply*.
- It has a robust, high-chrome steel grinding mechanism that is used in tens of thousands of municipal pump stations around the world.
- And it is a Flygt pump: a cast iron, quality product that is made to industrial specifications through and through.

A great package deal

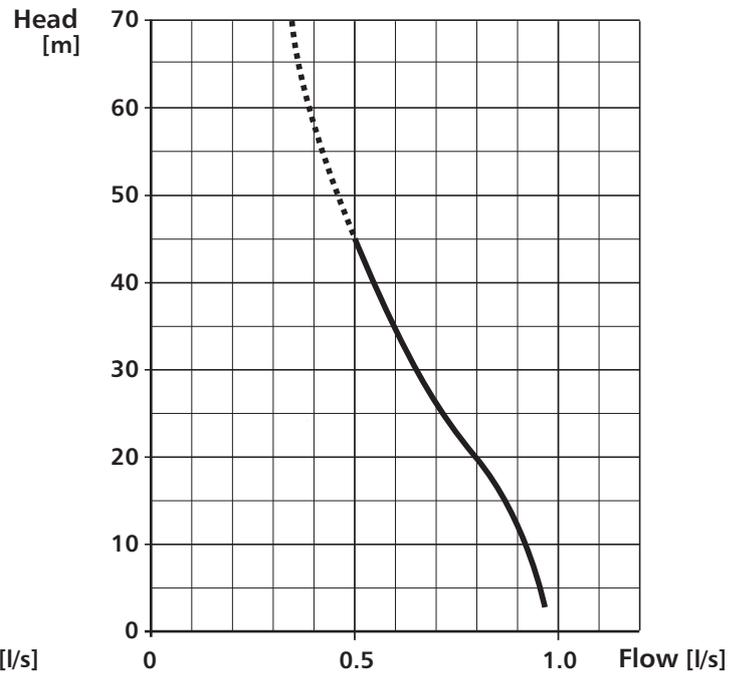
And best of all, you can order the pump as part of an all-in-one package. That's a pump, plus a prefabricated pit, plus a pump controller – in one competitive package. All from a single supplier.

* The pump is available in both single- and three-phase versions.

Heads of up to 45 metres

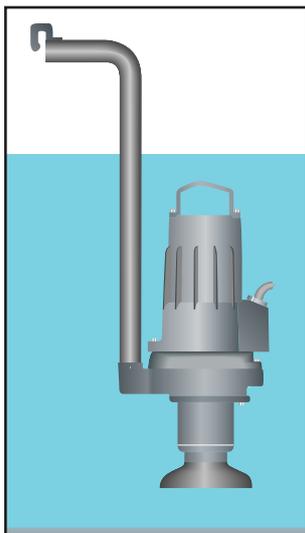


50 Hz



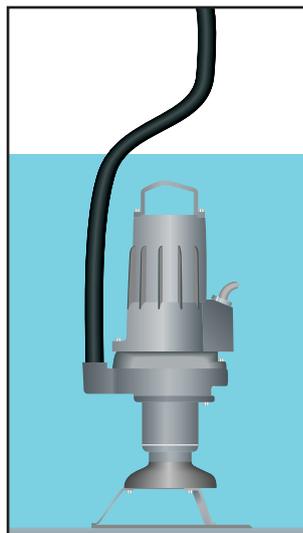
60 Hz

How to install it



MH 3068.175

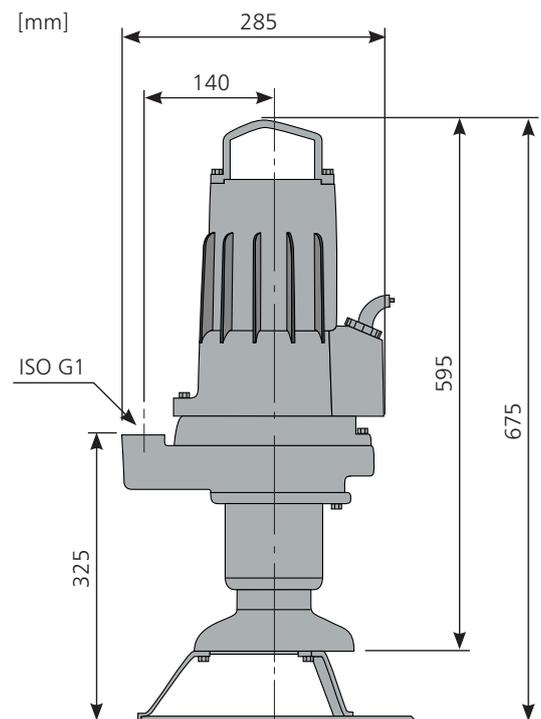
Semi-permanent, quick connection suspended coupling arrangement.



MF 3068.175

Transportable version with hose coupling or flange for connection to discharge pipeline.

A compact pump



How Flygt pumps are made to last

Class-F quality motor

At ITT Water & Wastewater, we only use motors that are made to operate in submersible pumps. Inside our progressing-cavity pump, you'll find a squirrel cage induction motor, made to Class F specifications. The stator windings are trickle impregnated with resin and rated at 155°C (310°F), allowing up to 15 starts per hour.



Low flow, high heads

A Flygt progressing-cavity pump produces a low and stable flow at high heads. The pumping action is produced by a corkscrew-shaped rotor that turns in a rubber stator. As the rotor turns, water trapped in cavities between the rotor and stator "progresses" through the pump. All progressing-cavity components are designed and manufactured by agreement with Allweiler.



Robust grinder

The grinding mechanism has a long and successful track-record having been used in municipal pumps for over 20 years. It is extremely robust and can handle a wide range of different solids. The grinder chops up all solid material into pieces so small that they pass through narrow pipes with ease. Made of high-chrome steel, the grinding mechanism is wear-resistant and durable.



Double seal system

Our unique dual-tandem, double-mechanical seal system protects the motor from leakage. Working independently of each other, they offer extra security and prolong intervals between services.

Well-balanced drives

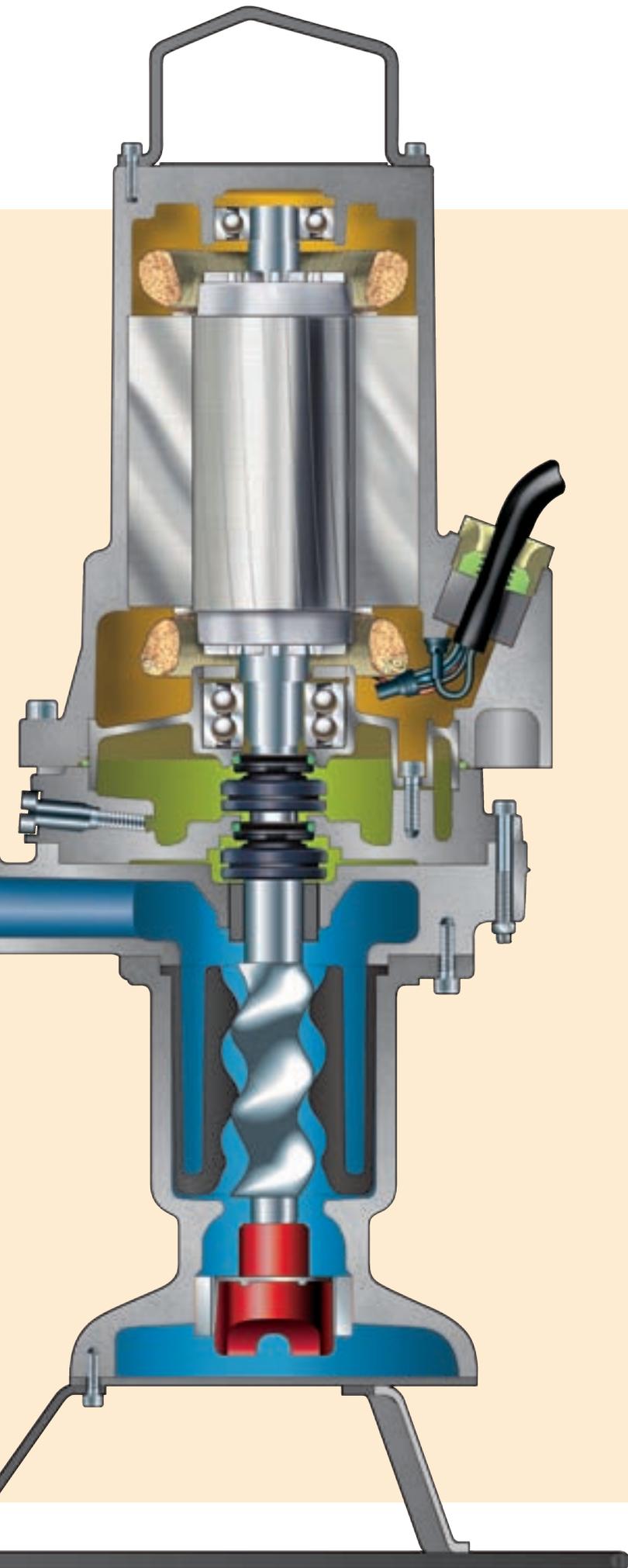
Vibrations are minimized thanks to a manufacturing process that produces shaft units to the most exacting tolerances. A smoothly running drive shaft ensures high motor efficiency and lower energy consumption. With over 100,000 units in use, the track record speaks for itself.

Long-life bearings

Reliability is further enhanced thanks to two-row, angular-contact ball-bearings. They are pre-packed with high temperature grease for maintenance-free performance.

Efficient motor cooling

The motor is heat-shrink fitted to ensure full metal-to-metal contact with the outer housing which is cooled by the surrounding liquid. Fins on the outside of the housing also dissipate heat.



A cable made for use in water

SUBCAB has been developed by ITT Water & Wastewater for use in submersible applications. Due to its low absorption rate, it retains its mechanical and physical properties even after long periods of use.

Secure cable entry

Separate sealing and strain relief functions reduce the risk of cable damage from improper handling.

Cast iron reliability

Flygt progressing-cavity pumps are made of cast iron: a material that offers good wearability and corrosion resistance. The result is a robust pump that will last for many years.

Easy to install

With its standardized connections, you can use Flygt progressing-cavity pumps in existing sumps and in ITT Water & Wastewater's prefabricated Flygt pump stations.

A competitive pump in a competitive package

To make life easier for wastewater consultants and installers, we have put together a package that contains a pump, a pit and a controller. By matching components that are optimized for domestic pump stations, we are able to offer this integrated package at a competitive price.

A complete pump station, ready-made

Flygt Compit is a prefabricated pump station for pressurized sewage systems. It comes complete on delivery, ready for immediate installation and connection.

Made in rotomoulded polyethylene, Compit is easy to handle. The total weight, including pump and cover, is 80-240 kg, depending on the version.

Flexible design

Flygt Compit can accommodate one or two pumps.

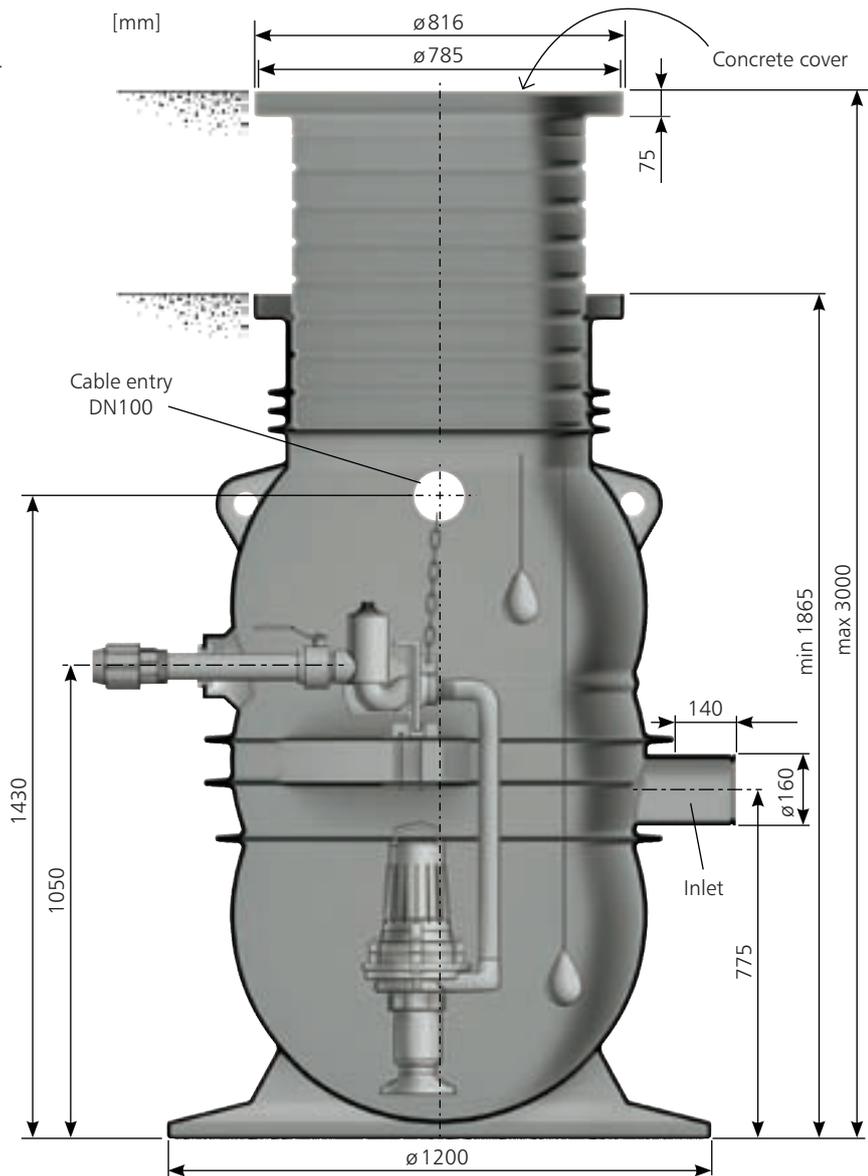
The pump station can be installed at depths between 1.9 and 3 metres. This is made possible thanks to an extension shaft that can be cut to the required length.

Problem-free pumping

Flygt Compit has been designed to eliminate sediment build-up. With its bowl-shaped bottom and the smooth surfaces of the inner walls, the pump station is virtually self-cleaning.

Facts and figures

- The pump is installed by simply lowering it down onto the discharge connection to which it automatically connects.
- Internal delivery pipe in stainless steel; other fittings made of surface-treated cast iron.
- The valve arrangement consists of a check valve and a shut-off valve.
- Concrete cover (40 kg) with lifting handle.
- Lifting chain in stainless steel.
- Extension shaft in polyethylene (20-40 kg).
- DN 150 inlet.
- The outlet pipe is equipped with DN 50 connection (Dy 63 mm).
- The pump station is designed to withstand earth pressure during its service lifetime.



Cut running and service costs

A Flygt pump controller can cut the cost of running and maintaining a pump station. Our controllers are made exclusively for controlling pumps – nothing else. As the world leader in submersible pumps, we have a full range of controllers – from the most basic units to web-based surveillance systems.

The Flygt FGC is a compact controller for one or two pumps. It is ideal for residential areas and perfect for pressurized sewage systems.

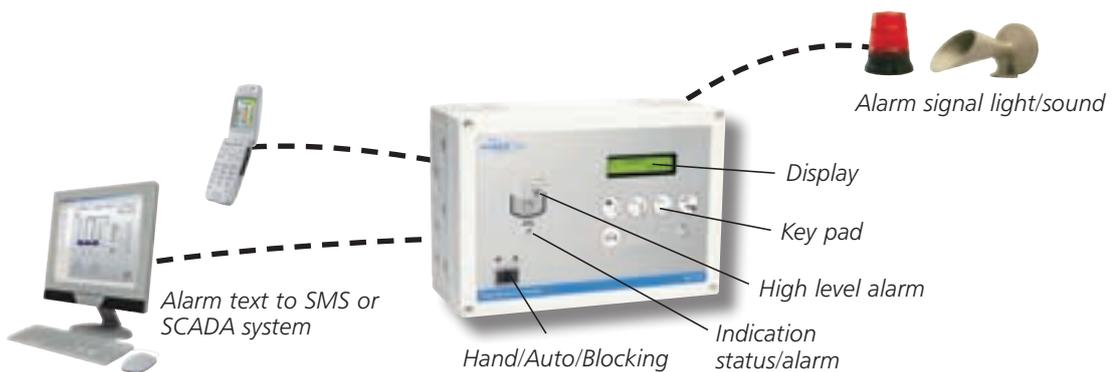
Information at a glance

A display window and warning lights give a clear picture of the status of the pump and the water

level. Here you can also check the alarm-log, power consumption, number of starts and pump running time. Alarms that may occur will be registered in a number of ways: in the alarm log, by the warning lights and via any external alarm connected to the alarm output. Alarms can also be sent to a Flygt SCADA system or as a text-message to a mobile phone.

Remote monitoring and control

You can connect a Flygt FGC to the Flygt Aqua-View, ITT Water & Wastewater's SCADA system, to remotely monitor and control all your pump stations. The Flygt FGC can be connected to our SCADA system via LON, GSM, fixed telephone lines or radio.



The pump maker that knows its systems

Designing a pressure sewage system is simple in theory, but harder in practice. Having been in the pump business for over 60 years, we have learned a thing or two about pump systems. Today, we have a team of system engineers who have the knowledge to provide qualified design recommendations and solutions. They know their theory and have had plenty of practice in the field. They are there to help. Call them.

The pump maker that sets the standards

ITT Water & Wastewater is a world leader in designing, manufacturing and supplying submersible centrifugal pumps. You will always be able to find the right product for the job thanks to our wide range of pumps. Whatever the head, flow or application – whether it's a small grinder or a high flow N-pump – we have a product that will do the job efficiently and reliably.



What can ITT Water & Wastewater do for you?

Integrated solutions for fluid handling are offered by ITT Water & Wastewater as a world leader in transport and treatment of wastewater. We provide a complete range of water, wastewater and drainage pumps, equipment for monitoring and control, units for primary and secondary biological treatment, products for filtration and disinfection, and related services. ITT Water & Wastewater, headquartered in Sweden, operates in some 140 countries across the world, with own plants in Europe, China and North and South America. The company is wholly owned by the ITT Corporation of White Plains, New York, supplier of advanced technology products and services.

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