



# Flygt D 8000

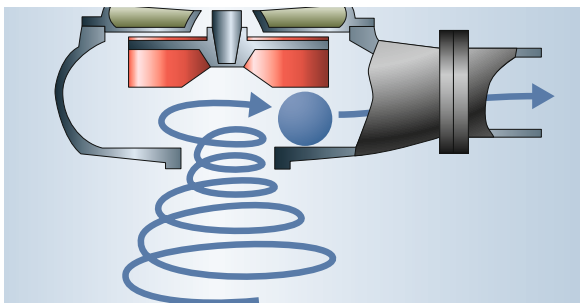
CORROSION-RESISTANT SUBMERSIBLE VORTEX PUMPS

# Wide open to the challenge of corrosive media

**Handling corrosive wastewater containing a substantial amount of solids and/or fibrous matter poses distinct challenges. For times like these, there's the Flygt D 8000, a stainless steel submersible vortex pump. Designed to tackle tough fluid handling challenges, the Flygt D 8000 does the jobs that no other pump can do - reliably and cost-efficiently.**

The Flygt D 8000 is a highly reliable submersible vortex pump that cost-effectively transports corrosive media. Completely made of stainless steel AISI 316, the Flygt D 8000 features a vortex impeller and wide throughlet that ensure consistent performance over time, trouble-free operation and minimal maintenance.

Engineered for demanding and potentially explosive environments, the Flygt D 8000 easily transports corrosive media for municipal sewage and industrial wastewater applications, with maximum 500 ppm chlorides, just as easily as it does for a wide range of applications in the chemical, food processing, pharmaceutical and textile industries.



High operational reliability, low wear: The powerful pumping action of the vortex impeller enables easy passage of larger solids through a wide, unobstructed channel.

## Straightforward non-clogging vortex design

The high quality and unmatched performance of the Flygt D 8000 should come as no surprise. After all, Xylem is the world-leading manufacturer and supplier of submersible pumps. Here are some of the design finesses that make the Flygt D 8000 the submersible vortex pump of choice.

## Advantages

- **Reliable, cost-efficient performance.** Non-clogging vortex design delivers highly reliable, cost-effective performance.
- **Excellent corrosion-resistance.** Pump materials easily handle highly acidic or alkaline liquids with pH values between 2 and 14.
- **Reduced wear.** Minimal direct contact of the impeller vanes with solids greatly reduces wear.
- **Very low maintenance requirements.** The wide throughlet and reduced radial forces on the impeller enables operation at very low flows or shut off for extended periods without damage.
- Slim pump design for installation into smaller sumps, where required.
- Thermal sensors embedded in the stator windings to prevent overheating.



Precision casting improves performance and reduces weight.

## Options

- AISI 329 duplex stainless steel
- Cable protection with stainless steel hose
- Leakage sensors in the stator and oil housings



# Reliable design for high performance

## International standards approvals.

All pumps are tested and approved in accordance with national and international standards (IEC 34-1 CSA).

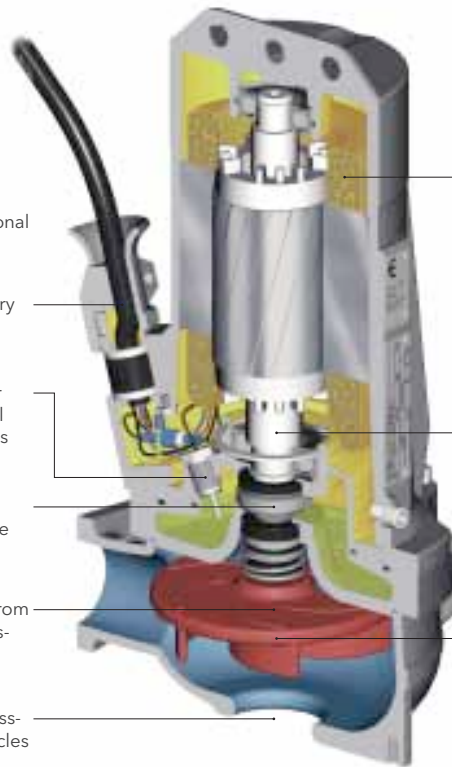
**Cable entry.** Water resistant cable entry provides both sealing and strain relief functions to ensure a safe installation

**Sensors.** Leakage sensors in the stator and oil housing, together with external monitoring equipment, are available as options.

**Two sets of mechanical shaft seals.** Work independently to provide double security.

**Back impeller vanes.** Prevent solids from entering the seal area and reduce pressure on the seal.

**Wide throughlet.** Enables the free passage of larger solids and abrasive particles up to 100 mm in diameter.



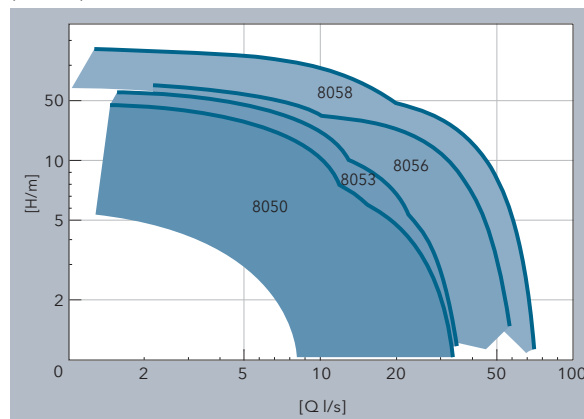
**High-performance squirrel-cage induction motor.** Provides reliable operation. Class H insulated, specially designed and manufactured by Xylem for submersible use.

**Shaft.** A short overhang virtually eliminates shaft deflection. Reduces noise levels and vibration while significantly increasing seal and bearing life.

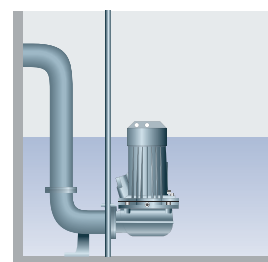
**Semi-recessed vortex impeller.** Creates pumping action by transferring energy to the pumped fluid, which in turn produces a secondary swirling vortex flow.

Model	D 8050	D 8053	D 8056	D 8058
Rating 50Hz	1.5-2.6 kW	3.5-4 kW	5-7.5 kW	9-13 kW
Discharge (DN)	50 mm (2") 65 mm (2½") 100 mm (4")	50 mm (2") 65 mm (2½") 100 mm (4")	- 65 mm (2½") 100 mm (4")	- 65 mm (2½") 100 mm (4")
Pressure characteristic	LT, MT, HT	LT, MT, HT	LT, MT, HT	LT, HT

## Performance (50 Hz)

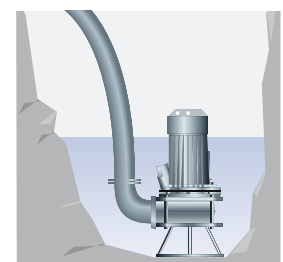


## Methods of installation



Totally secure: For stationary or semi-permanent fixed installation.

## DS



Completely transportable: For temporary installation with stand and hose connection.