

Cryogenic Submerged Fuel Pump



Solutions for the zero-carbon transition

SVANEHØJ
An ITT Company

Dedication and details make the difference

The CS Fuel Pump builds upon many of the features that distinguish the renowned DW Fuel Pump, which has made Svanehoj one of the most trusted names in pumping solutions. The simplified design and innovative key components improve reliability and efficiency, while providing the global community's need for meeting emissions regulations.



Shaped by many years of maritime experience and state-of-the-art technology, the CS Fuel Pump is an innovative and durable submerged fuel pump for LNG, designed with a self-cleaning filter and a high-efficiency electrical motor.

THE FIRST SUBMERGE PUMP EXCLUSIVELY PRODUCED FOR MARITIME PURPOSES

Dedication and details make the difference

As a critical liquids specialist, we know the importance of dedication and detail, and the Svanehoj CS Fuel Pump is a great example. The CS Fuel Pump builds upon many features that distinguish the renowned DW Fuel Pump, making Svanehoj one of the most trusted names in marine solutions. The simplified design and innovative key components improve reliability and efficiency, while providing the global community's need for meeting emissions regulations.

Permanent magnet motor

Attracting higher efficiency

The new permanent magnet motor is crucial to the performance of the CS Fuel Pump. More efficient than induction motors or motors with field windings, the electric motor delivers significantly better results. It is designed by Svanehoj's expert engineers and is the result of continuous research and improvement.

Self-cleaning filter

Purer uptime for the pumps

The self-cleaning filter is perhaps the most unique feature of the CS Fuel Pump. The surface and high flow around the filter enables efficient removal of particles, resulting in less wear and tear, longer service intervals, and maximum uptime for the pumps without clogging or loss of power.

Standardized shaft design

Designed for improved maintenance

Any kind of downtime is costly, which is why the CS Fuel Pump is equipped with a standardized shaft design. This ensures easy disassembly and assembly during service and inspection, and improved maintenance every single time.

Operating parameters

- **Min. design temperature:** -165°C
- **Capacity:** 1-33m³/h
- **Design head(s):** 1-stage 120 mlc, 2-stage 200 mlc, 3-stage 280 mlc, 4-stage 360 mlc
- **Head per stage:** 80 mlc
- **Speed:** Variable 3000 – 6000 rpm
- **Control method:** VFD
- **Media:** LNG

Technical characteristics

- **Electric motor:** CS5, CS12, CS24
- **Rated motor current:** 42A, 42A, 60A
- **Rated motor power – output:** 20 kW
- **Electric motor type:** Permanent magnet, derated for VFD
- **Filter:** Internal filter for cooling and lubricating flow
- **Filter type:** Self-cleaning under operation

Product materials

- **Pump casing/discharge branch:** Stainless steel
- **Pump chambers:** Aluminium/bronze
- **Impellers:** Stainless
- **Wear rings:** Carbon/hybrid bearing
- **Shaft:** Stainless steel
- **Line shaft bearings:** Carbon
- **Bolts and nuts exposed to cargo:** A4 stainless steel
- **Thrust bearing:** Ball bearings





One-stop service all over the world

Svanehoj has designed, engineered, and built pump solutions for almost a century, and we are proud to offer one of the strongest service solutions in the market. With highly skilled and service-minded teams, we ensure well-prepared and cost-efficient one-stop service worldwide.

Even the most reliable equipment needs service to remain reliable. Renowned for extensive expertise and a collaborative mindset, Svanehoj Service Solutions performs preventive maintenance, repair, and field service for LNG carriers and FSRUs.

Wherever you are located or operating, our dedicated teams provide services that meet the highest demands and needs.

Svanehøj Danmark A/S
Fabriksparken 6
9230 Svenstrup J

Tel. +45 96 37 22 00
svanehoj@svanehoj.com
svanehoj.com

SVANEHOJ
— An ITT Company