

# Deepwell Fuel Pump



Solutions for the zero-carbon transition

**SVANEHØJ**  
— An ITT Company



# Reliable and optimised efficiency

Over the span of nearly 100 years of experience in the marine industry we have developed an unparalleled design and technology that ensures our customers the best, safest, and most reliable pump solutions on the market. At Svanehoj, our central focal point is to contribute to a cleaner world by offering excellent technical pump solutions and critical components that match the transition to cleaner energy types.

Alongside our business targets, we strive to be a role model for our employees and our local neighbourhood by continuously improving the overall conditions of the physical and mental work environment and taking responsibility for the impact we have on the community. Committed to work towards a faster transition to zero-carbon transport.

Our pumping solutions are a key part of the fuel and energy cargo supply in the shipping industry. We will support a fast and full transition to zero-carbon maritime fuels, including ammonia, hydrogen and synthetic carbon-based electro-fuels.

## **The proven Svanehoj technology in downsized Fuel Pump**

At Svanehoj we know the importance of proven reliability in the market. That is why we developed the DW fuel pump by taking our well-proven and renowned gas pump and downsized it for fuel gas systems.

All the benefits from the larger gas pumps have been attributed to the DW Fuel Pump, ensuring both stability, optimised performance, high reliability, and long service intervals.

Our Svanehoj Fuel Pump is designed for a steady, reliable supply of fuel for all liquid gas types at all temperatures.

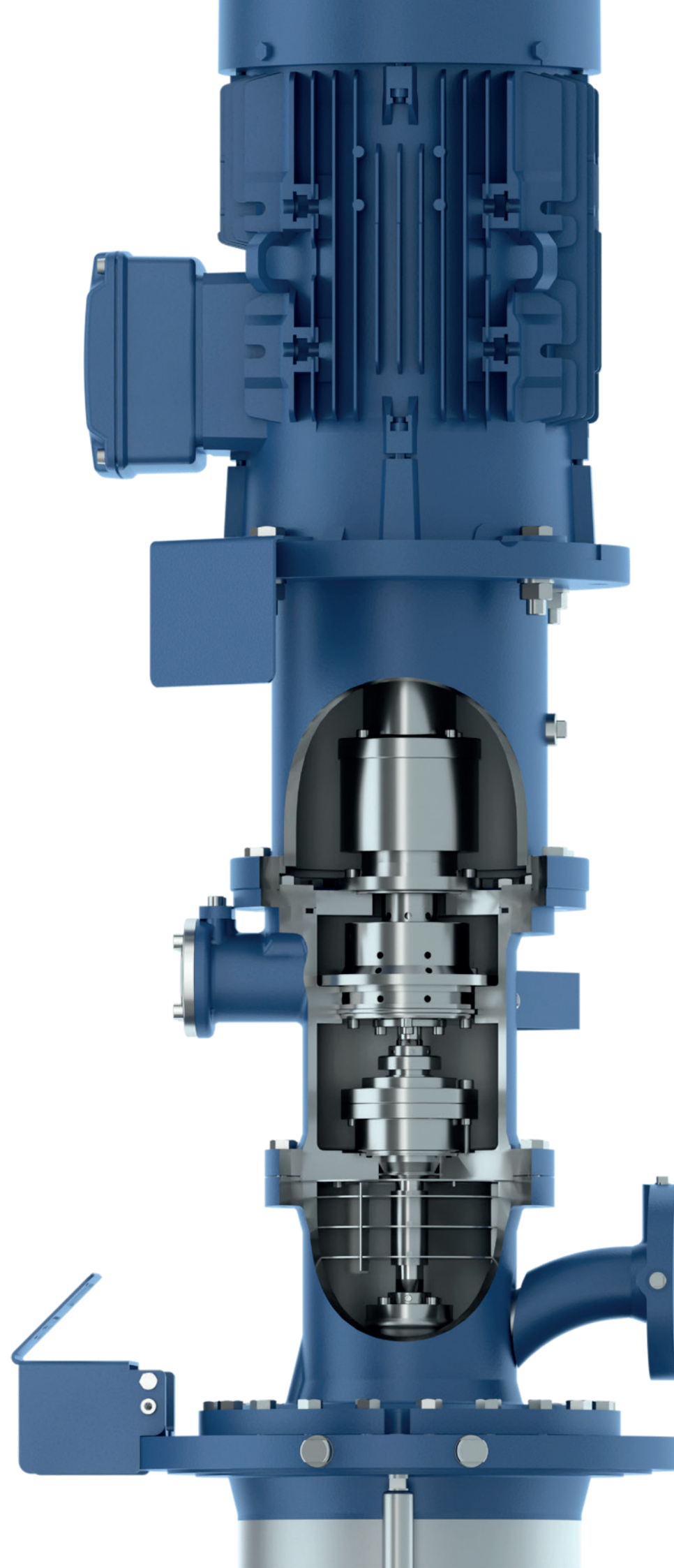
You get the well-proven design from our DW Gas Pumps that are installed in more than 1200 gas carriers world wide.





# Start decarbonizing with proven fuel pump technology

Our DW Fuel Pump is renowned for its outstanding performance and reliability and it provides a solution that not alone support eco-friendly LNG-fuelled vessels but also alternatives such as LPG, ethane, methanol and ammonia. The DW Fuel Pump is developed in close collaboration with designers of fuel gas systems and is designed to safeguard a steady, reliable fuel gas supply with a fast response to changes in engine load, ensuring an optimised efficiency.



## Specifications

The fuel pump is a classic multistage centrifugal pump made of cryogenic stainless steel with a standard zone 1 marine motor. The pump's electric motor is located outside the fuel tank, which eliminates the excess of heat and pressure, which in other cases often results in a significant energy loss when motors are located inside the fuel tank. Thanks to the unique deepwell design, the consumption of energy and fuel are continuously optimised and gives you a reliable and optimized solution.

## Operating parameters

- **Capacity:** 0.25 - 35 m<sup>3</sup>/h
- **Head:** 20 - 400 mlc
- **NPSHR:** 0.25 mlc
- **Temperature:** -163°C - 50°C

## Advantages and benefits of the DW Fuel Pump

- Independent of weather conditions, sloshing, and thermal conditions.
- No tank connections below liquid level and no electrical components inside the tank.
- Steady, reliable supply of fuel.
- Fast response to changes in engine load.
- No gas leakage from the tank.
- Dual fuel function: The pump can be used with both LNG and other fuel types such as ethane and LPG.
- Pump can be retracted, even with gas in the tank.
- Minimised contribution to boil-off gas.

# A full range of service solutions

We deliver worldwide and personalized 24-hour service. Fusing a full range of service solutions, a global network, and fast response time, we enable lower operating costs, longer service intervals, and minimum downtime.

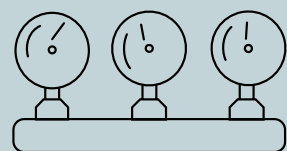


## Service on deepwell pumps

Trained and certified in fast troubleshooting, specialists from Svanehøj Service Solutions are able to provide immediate repairs of your deepwell cargo pumps – both on site and in dry-dock.

### We offer service and spare parts to the following brands:

· Svanehøj · JC Carter · Ebara · Nikkiso · Vanzetti · Shinko · ACD

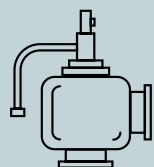


## Gauges & instrumentation service

Calibration of measuring equipment – from cargo tank instrumentation to level gauge systems – is essential always to ensure correct and optimal performance. Whether the vessel is an LNG carrier or FSRU, our trained specialists provide precise calibration, including certified documentation.

### We offer service and spare parts to the following brands:

· WHESOE · Henry Systems · ENRAF · Musasino

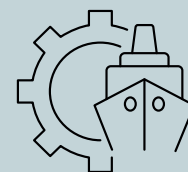


## Safety valve service

We offer a complete service on all types of valves on LNG Carriers and FSRUs. Our service includes preventive maintenance, repairs, thorough testing and detailed documentation for safe and future-proof operations. We can carry out the service on-site, in dry-dock, or one of our facilities designed with clean room for overhaul of valves.

### We offer service and spare parts to the following brands:

· Fukui · Korval · Luceat · Leser · FlowSafe · Anderson Greenwood



## Long-life reliability through OEM Spare Parts

As a trusted partner, we work closely with manufacturers, ensuring all spare parts are original and updated with the latest specifications. We offer original spare parts for pumps as well as level gauges from Svanehøj, and third-party cargo equipment.



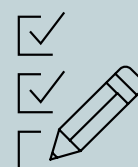
## Re-engineering

In addition to providing OEM parts for the full suite of Svanehøj equipment, we also supply replacement parts for all other cargo and cryogenic equipment, helping to solve performance or part supply issues for obsolete equipment. Utilizing global engineering capabilities, regional manufacturing resources, combined with the latest available technology, Svanehøj is able to re-engineer parts to improve performance and equipment life cycle. All parts meet or exceed OEM specifications with faster lead times. These parts deliver the advantages of Svanehøj's advanced modeling capabilities and more than a century of equipment design and manufacturing experience for various applications worldwide.



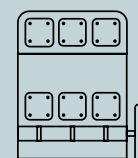
## Planned service or emergency breakdowns

Reliable service at the highest quality is essential to prevent downtime and keep the vessel operating between dry-docking periods. Our skilled Field Service Engineers are trained and certified to troubleshoot service critical cargo equipment on LNG carriers and FSRUs. Whether it is planned maintenance or an emergency breakdown, Svanehøj always has the right engineers to assist on-site.



## Predock inspection service

Predock inspection reduces the risk of unplanned downtime or costs. Before your vessel is planned to dry-dock for service, our assessment engineers carry out a thorough inspection of pumps, valves, and other equipment to assess the need for maintenance or replacement. Afterwards you will receive a detailed plan before your vessel dry-docks regarding needed service and spare parts.



## Cargo and cooling compressor service

No matter the complexity of your compressor system – and no matter the brand – our specialists deliver advanced maintenance and fast repair, reducing potential downtime to a minimum.

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