



# Svanehøj Deepwell Cargo Pumps Type DW

For Chemical and Product Tankers

Pump Systems



# Multi-stage

## Type DW for chemical and product tankers



Discharge base for Svanehøj deepwell pumps



Multi-stage pump cylinder with stripping valve

This brochure describes Deepwell cargo pumps type DW for product and chemical tankers.

The pumps have been developed by Svanehøj through extensive research. They have been marketed for more than 40 years and gradually improved in close cooperation with our customers.

### A deepwell cargo pump consists of three major items:

- A. Pump cylinder multi-stage.  
Pump capacity: 50-750 m<sup>3</sup>/h.  
Delivery head: 20-160 ml.c.
- B. Pipe stack, which includes shafts and cargo-lubricated bearings. One bearing placed for each 1.4 metres. The pump is available in lengths to suit any tanker design.
- C. Discharge base, with motor stool, main bearings, flexible coupling and sealing arrangement.

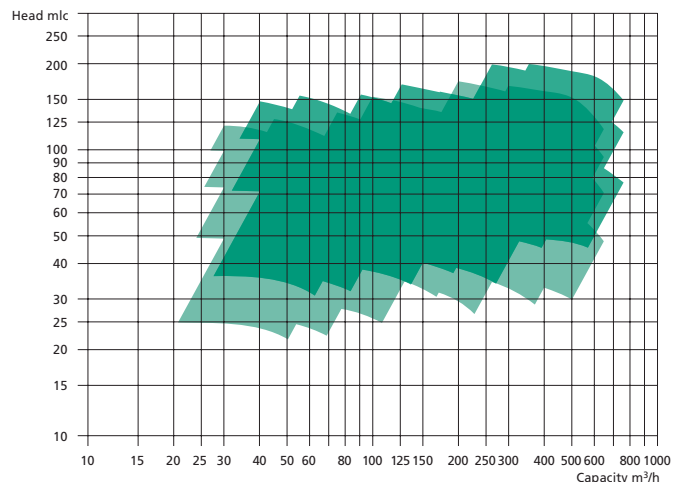
Typically Svanehøj's scope of supply also includes dome flange with gasket and bolts as well as bottom guide ring. Based on the actual cargo list the materials are selected. Standard materials are stainless steel AISI 316L or 317L or equivalent.

The pumps are also available in other manufactured stainless steel qualities. The carbon slide bearings are arranged with shaft sleeves in stainless steel.

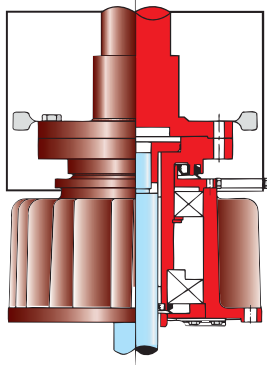
The discharge flange is machined according to international standards such as DIN, JIS or ANSI.

### Capacity Range

- 1450 r.p.m.
- 1750 r.p.m.

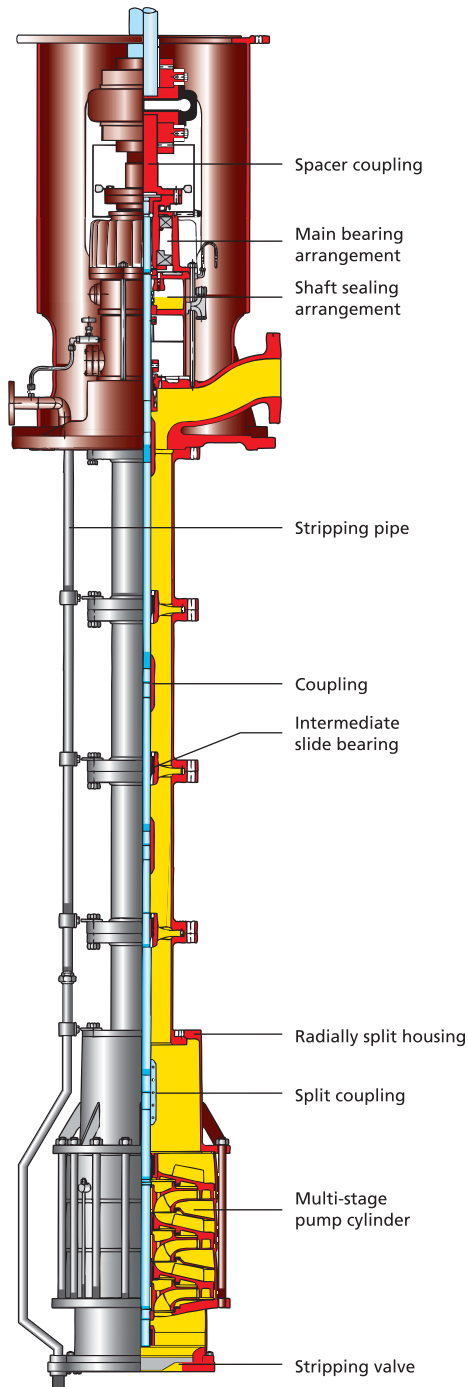


## Main Bearing Arrangement



Containing thrust bearing, guide bearing, adjusting nut for pump shaft, and flexible coupling.

Bearing arrangement is fan-cooled.



Spacer coupling

Main bearing arrangement

Shaft sealing arrangement

Stripping pipe

Coupling

Intermediate slide bearing

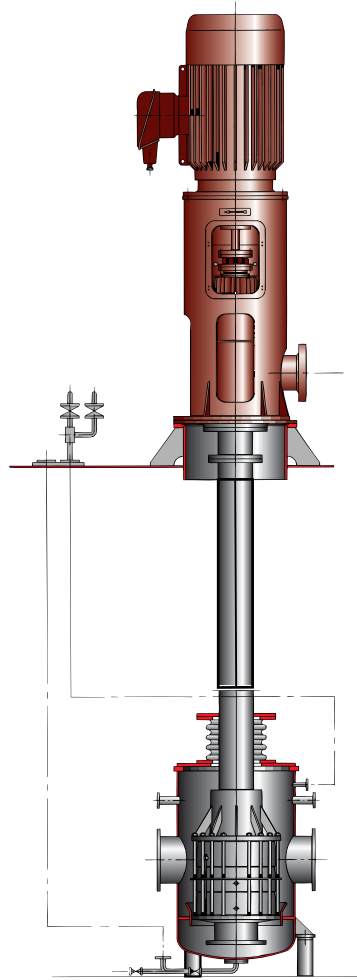
Radially split housing

Split coupling

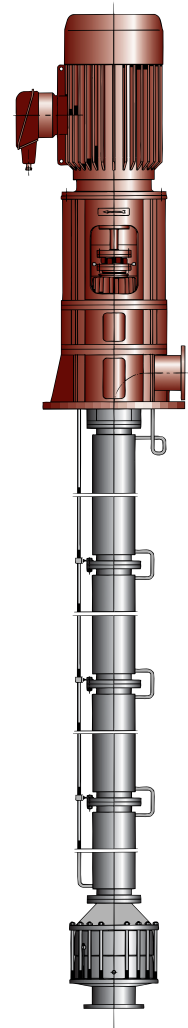
Multi-stage pump cylinder

Stripping valve

## Multi-suction deepwell pump



## Deepwell pumps for molten sulphur



Multi-suction deepwell pumps are applicable when one pump for 2 or more tanks can be accepted.

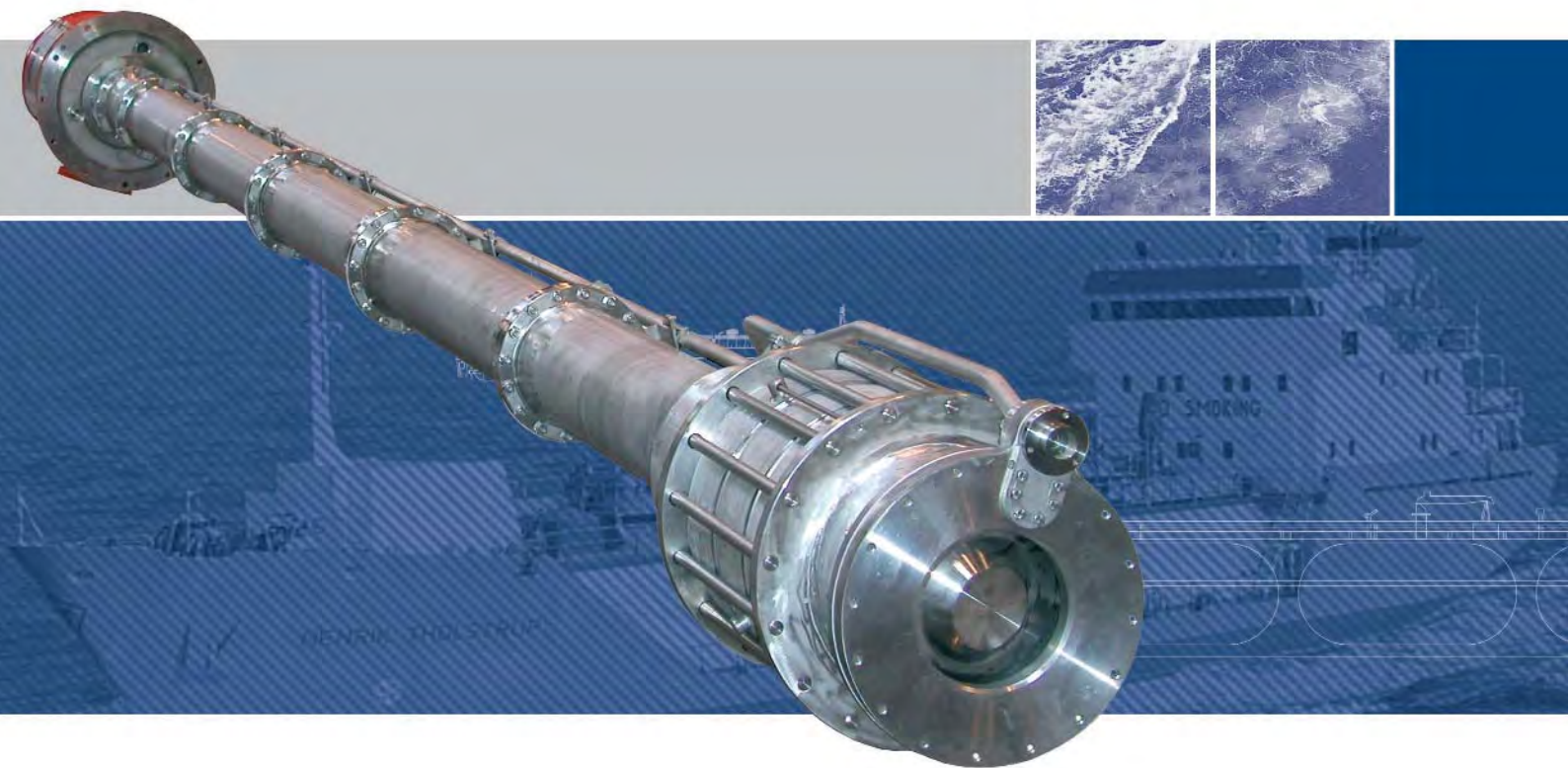
The pump cylinder is mounted in a suction can, which can through piping in the tank take suction from one or more tanks simultaneously.

The stripping system consists of air-driven ejector unit on deck making it possible by means of a three-way valve to put the suction can under vacuum and pressure alternately. The efficiency of the stripping system meets existing demands on residue.

Deepwell pump in special execution for molten sulphur transported under high temperatures.

The pump is applicable for max. temperature of 180°C (356°F).

Delivery base and intermediate pipes are arranged with heating jacket for steam or thermal oil heating.



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