



Svanehøj Booster Pumps

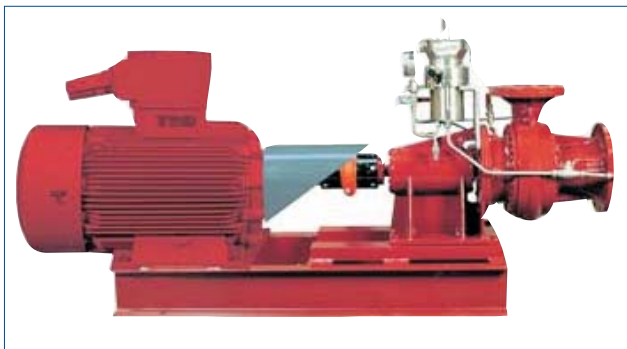
LPG/Ethylene and combined LEG/Chemical Tankers



Single and Multi-stage

Horizontal and Vertical Booster Pumps

The Svanehøj Cargo Booster Pumps have been marketed for more than 25 years and gradually improved to almost perfection in close co-operation with our many customers all over the world.



Horizontal Booster Pump.



Pressure booster with gauges.

Cargo Booster Pumps

Booster pumps are available in both horizontal and vertical execution.

Capacity range up to 650 m³/h and typical delivery head 110-130 m.c.

The pumps are delivered for both 2 and 4 -pole electric motor operation.

As standard the pumps are manufactured in stainless steel AISI 304 for cargo temperatures down to -104°C.

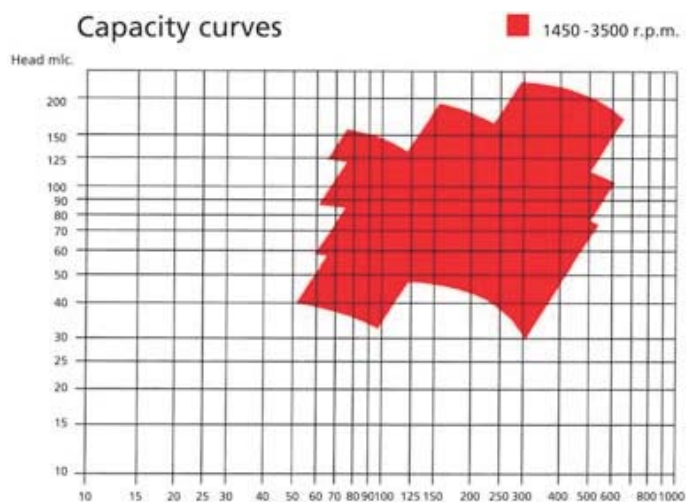
The pumps are delivered as complete units, i.e. mounted on base plate.

Furthermore the horizontal booster pump is available in a multi-stage execution for high delivery head.

This type of pump can also be used as cargo pump on small LPG carriers with fully pressurized tanks.

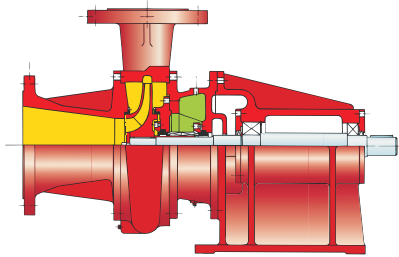
In this execution the pump is provided with inducer for enhanced suction performance.

The pumps are manufactured with flanges according to EN 1092 as standard but other flange standards are available e.g. ANSI, JIS.



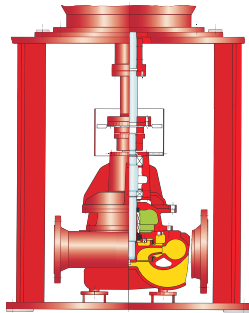
Horizontal Booster Pump

Single-stage centrifugal booster pump for liquefied gases is available mounted on base plate with flexible spacer coupling and ex-proof electric motor 1450/1750/2900/3500 r.p.m.



Vertical Booster Pump

Single-stage centrifugal booster pump for liquefied gases. The pump is mounted with flexible spacer coupling facilitating maintenance of the rotating part without disassembly of e-motor and pump casing. The pump is available with ex-proof e-motor 2900/3500 r.p.m.

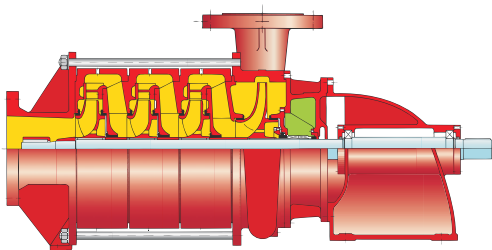


Horizontal, multi-stage Booster or Cargo Pump

Multi-stage booster pump is typically used, when sufficiently high pressure cannot be obtained with a single-stage pump.

For booster service the pump is delivered without inducer. The cargo pump version is typically used on small tankers with fully pressurized tanks and is then equipped with an inducer in the suction inlet.

The pump can be delivered with ex-proof motor 1450/1750 r.p.m.



Shaft sealing arrangement

The cargo booster pumps have double mechanical shaft seal in oil bath and are under pressure through a pressure booster (pressurizer).

The pressure booster is used for pressurizing of the sealing liquid in the shaft sealing system.

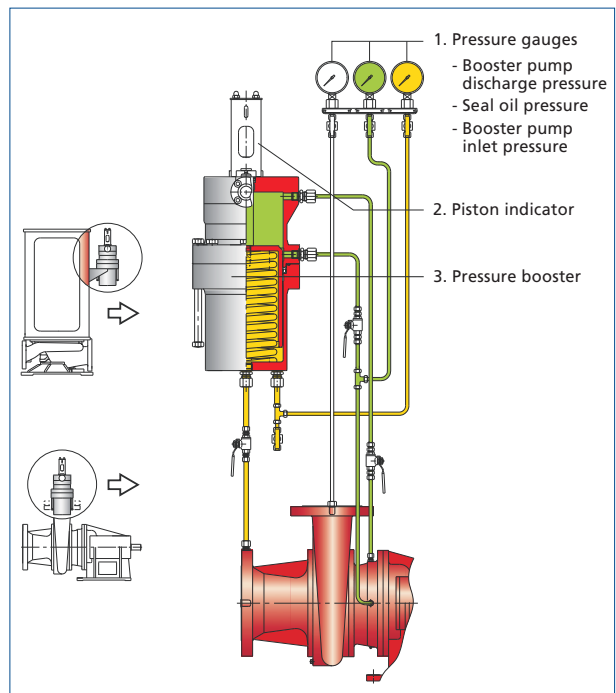
The pressure booster operates by means of a piston dependent on the process medium pressure and a spring. The fixed ratio of the booster piston increases the pressure, and the force from the spring gives the additional pressure to the sealing liquid.

The piston rod on the top of the pressure booster indicates the degree of filling.

Control of piston rod position by means of limit switch is available as an option.

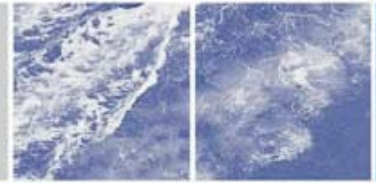
The pressure booster can be used for vertical or horizontal booster pumps for liquefied gas.

Existing pumps with the old pressure accumulator can be modified from manual pressure setting to automatic operation by use of this new type of pressure booster.



The figure shows a typical installation diagram for the pressure booster mounted on a horizontal booster pump for liquefied gas.

The pressure from the process medium (liquid) is led to the pressure booster, which returns a sealing liquid with an increased pressure to the mechanical shaft sealing system.



Hamworthy Svanehøj A/S
PO. Box 30, 6 Fabriksparken
DK-9230 Svenstrup J.
Denmark

tel: +45 96 37 22 00
fax: +45 98 38 31 56
e-mail: svanehoj@hamworthy.com
web: www.hamworthy.com

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