Three Screw Pumps

Shipbuilding has been playing significant role in human civilization development. We care about customer's demand from shipbuilding industry and provide screw pump products to fit in ships and boats in many sections like fuel/lube oil module, deck machinery, propeller system, etc.

Application

- Heavy Fuel Oil Transfer Pump
- Diesel engine Lube oil Pump
- Lube oil transfer pump
- Fuel oil module feed & booster pump
- Tailshaft Lubcation and Cooling Pump

Operating Principle
③ Pressure relief valve applied for protection of pump:
The valve equipped on the product can provide transient to the pump, to prevent overload, however, it can not be used as the overflow valve for the pipe.

① Advanced structure and excellent performance:
The traditional high-pressure balance technique is abandoned, and the axial force balance of drive and driven screws at low-pressure is adopted, with even stress distribution, deformation of screw not easy, reliable and stable operation, no impulse, and low noise.

② Unique design and reliable sealing:
The mechanical sealing method is adopted for pump, with the sealing cavity interlinked to the suction, at the same time, the structure is designed to provide sufficient cooling cycle to the sealing, to ensure the sealing effect and no leakage.

④ Pump core assembly for convenient maintenance and accessory replacement:
The pump is a simple and compact structure, and the pump core assembly is in assembly construction, therefore, the pump core can be taken out as a whole, which is convenient for maintenance.

⑤ Optimized improvement and aesthetic appearance:
The traditional inlet and outlet positions are changed to that the inlet and outlet are located at both sides of the pump but in straight line, resulting into a pleasing appearance; meanwhile, the design is innovated, therefore, the inlet and outlet could be exchanged on user’s site without any change to pipelines.

KYEONGYANG ENGINEERING CO., LTD
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APPLICATION SCOPE

Engine room lube/fuel oil system
We provides suitable solution for marine lube/fuel oil system with stable pressure and flow output to fit different viscosity and temperature including(LS)MDO, (LS)MGO, HFO, LO, etc.

HSN Series
Universal three-screw pump with wide application

Performance Data (Lube/Fuel oil system)
Viscosity 3.0~1500 ㎟/s
Flow 5~5300 L/min
Maximum pressure 4.0 Mpa
Highest temperature 150 °C

HAC Series
Intergrated design of the body and liner with compact structure, best choice for marine engine room pump solution

Performance Data (Lube/Fuel oil system)
Viscosity 1.4~2000 ㎡/s
Flow 10~1000 L/min
Maximum pressure 1.6 Mpa
Highest temperature 150 °C

HSS Series
Specially designed for large capacity demand

Performance Data (Lube oil system)
Viscosity 40~1000 ㎜/s
Flow 50~630 ㎡/h
Maximum pressure 1.6 Mpa
Highest temperature 100 °C

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**HSM Series Performance Data**

- **Viscosity**: 3~760 ㎟/s
- **Flow**: 20~2200 L/min
- **Maximum pressure**: 4.0 Mpa
- **Highest temperature**: 150 °C

**Propeller propulsion system**

We can provide suitable lubrication and cooling solution for propeller propulsion tailshaft system for its bearing and sealing devices.

**HSN Series Performance Data**

- **Viscosity**: 3.0~1500 ㎟/s
- **Flow**: 5~5300 L/min
- **Maximum pressure**: 8 Mpa
- **Highest temperature**: 150 °C

**Deck Machinery**

Three-screw pumps can be used as hydraulic and lubrication for deck machinery.

**HSE Series Performance Data**

- **Viscosity**: 10~760 ㎟/s
- **Flow**: 20~430 L/min
- **Maximum pressure**: 16 Mpa
- **Highest temperature**: 150 °C

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