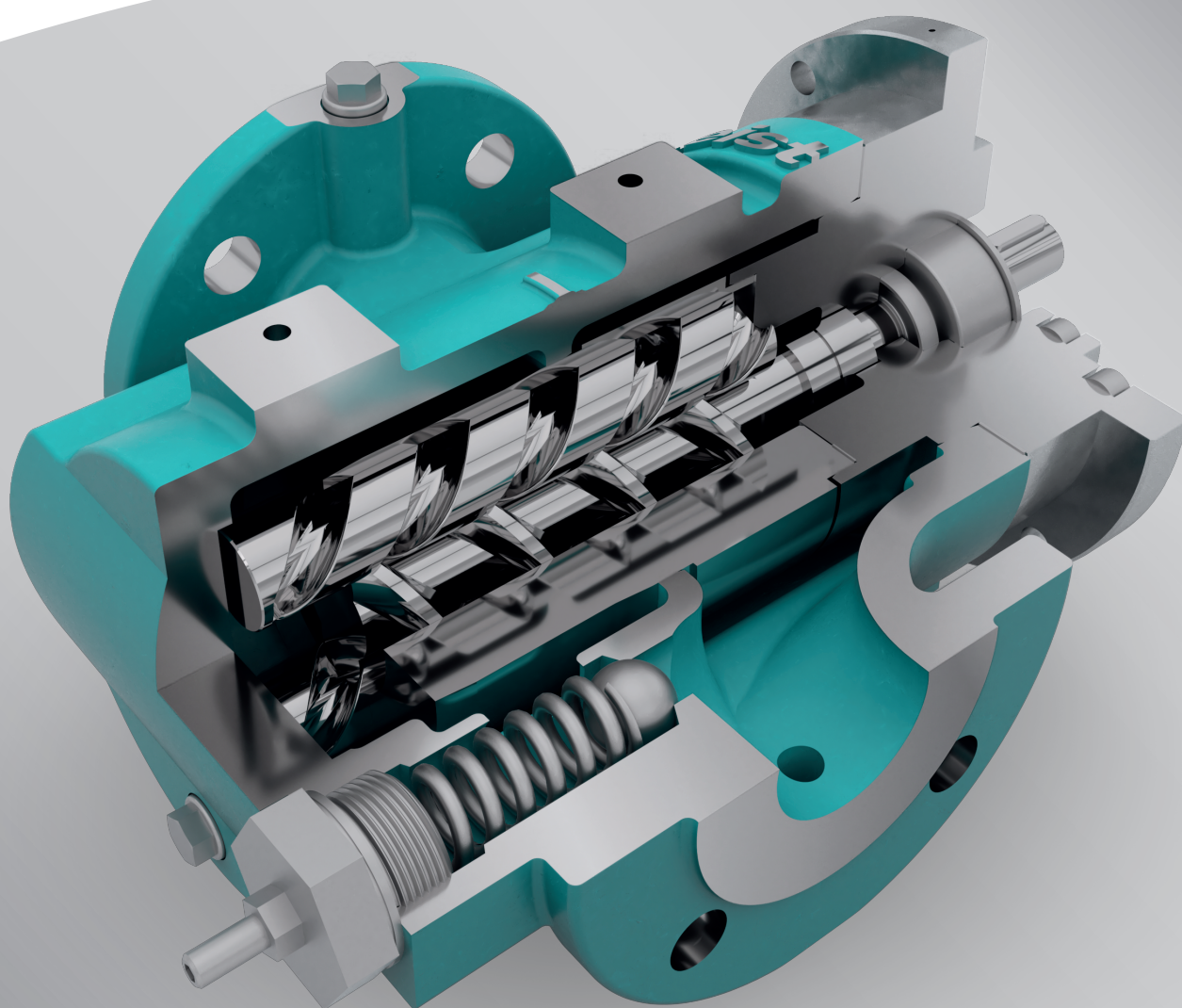


PUMP TECHNOLOGY

L3NB screw pump series



L3NB PUMP SERIES

The new compact screw pump for lube-oil/fuel-oil skid suppliers, as well as compressor- and diesel engine manufacturers.

THE CHALLENGE

- **Reduced viscosities** for fuel oils, down to 1.4 mm²/s, due to: reduced sulfur content in Emission Control Areas (ECAS) since 2015 to 0.1% global sulfur reduction in fuel oils from 2020 to 0.5% worldwide

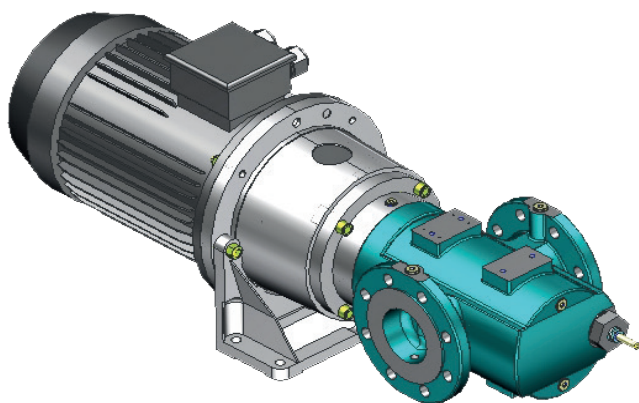
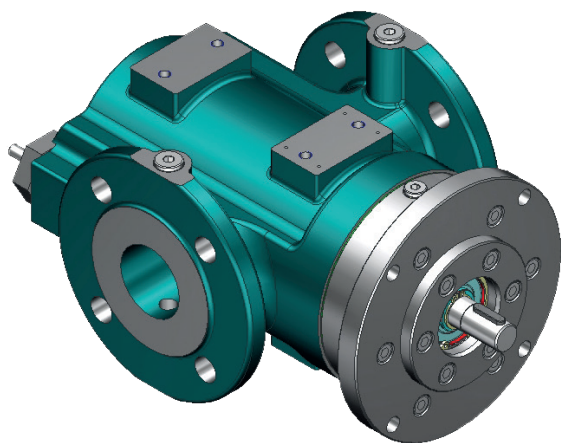
THE SOLUTION

New Leistriz L3NB pump series is the reliable solution for fuel oil supply skids and provides **up to 10 bar with a viscosity of 1.4 mm²/s** tanks to:

- new and innovative balancing system
- optimized material combination
- simple design
- increased efficiency for less power draw

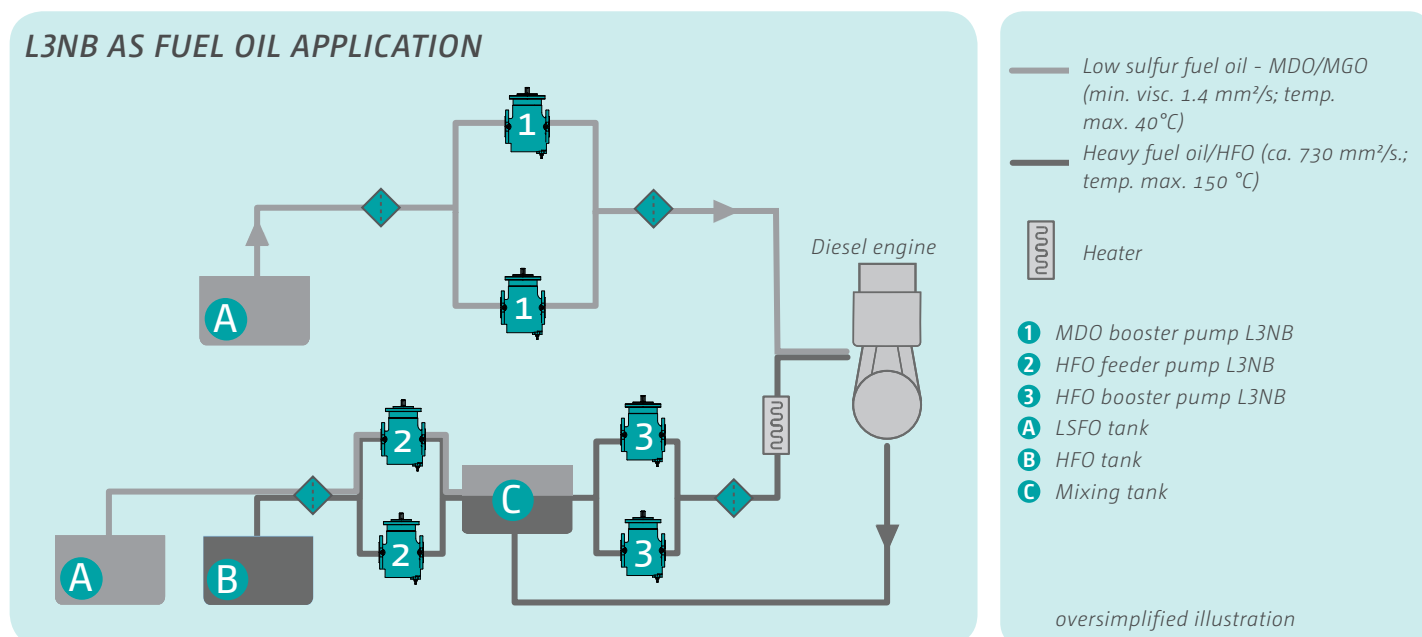
FURTHER DESIGN BENEFITS

- **Easy to change** pumping cartridge (casing insert design)
- Cartridge design allows use of different pump casings with possibility to **customized flange arrangements and different materials**
- **100% Interchangeable** by flange to flange dimensions to previous L3NG pump type
- Because of the versatility of the housing also **pumps from other manufacturers may be replaced**
- **No negative suction pressure limitation** (limited only by available NPSH)
- **Reliable and cost optimized**



» The future is bringing up new challenges.
The new L3NB pump series makes you ready for them!

L3NB AS FUEL OIL APPLICATION

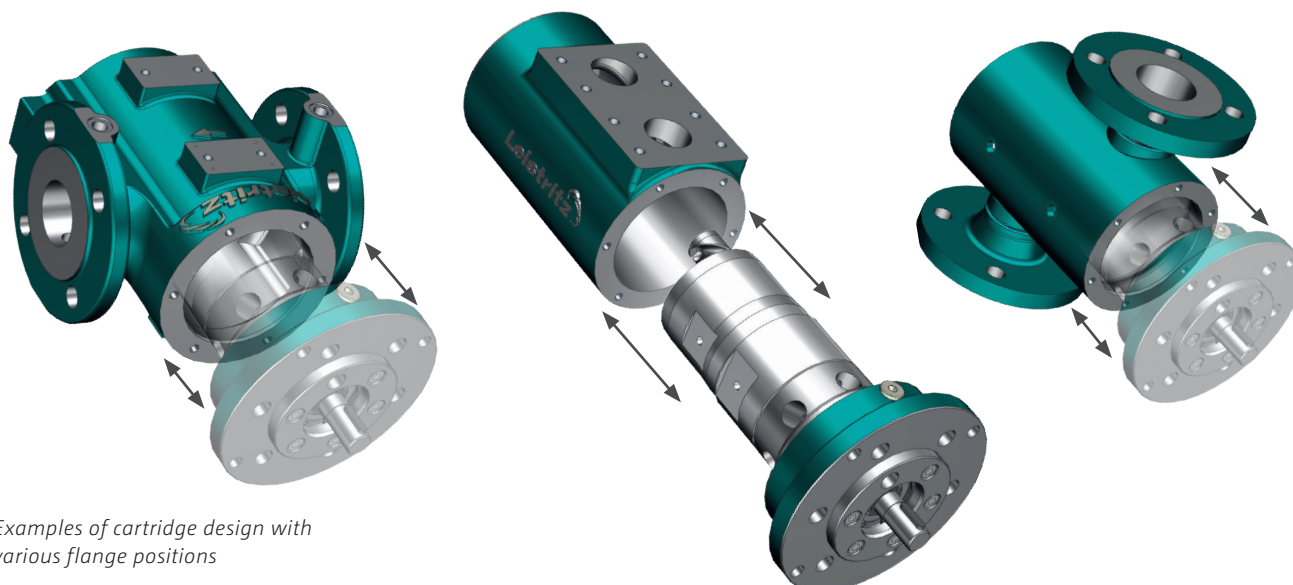


The pump is designed to cover most of the available installations. This means:

- Flow direction from left to right or right to left by easily turning the pump casing
- Vertical or horizontal installation
- Foot or flange mounted, or as pedestal execution
- hermetically sealed magnetic drive also available

ADDITIONAL HIGHLIGHT: REPLACEABLE PUMPING CARTRIDGE

The cartridge includes all internal rotating parts, sealing, bearing and cover. Such cartridge units can also be provided fully tested acc. to the operating conditions as a major spare part. The benefit is the quick and easy replacement of the internal parts to reduce the down-time during the maintenance cycle. The use of a completely tested pump cartridge design also allows an adaptation of different flange locations of the pump casing (e.g. as a re-engineered pump) in order to fit the pump into existing piping arrangements.



Examples of cartridge design with various flange positions

L3NB DATA

PERFORMANCE CHARACTERISTICS*

	Min.	Max.
Viscosity	1.4 mm ² /s	1000 mm ² /s
Operating temperature	-10 °C	150 °C
Flow rate	7 l/min	550 l/min
Suction pressure	pending on NSPH	8 barg
Differential pressure	1 bar	10 bar at 1.4 mm ² /s /16 bar at > 2.8 mm ² /s
Casing pressure	design 16 bar	higher on request
Speed	950 1/min	3600 1/min
Ambient temperature	-10 °C	60 °C

* Fluid: marine diesel oil/heavy fuel oil (acc. ISO 8217), lube oil

MATERIAL

Casing	nodular cast iron, fabricated steel, bronze or as requested by customer
Rotors	nitrided steel
Liner	Aluminum

Subsidiaries:

- Leistritz Italia srl., Milan
- Leistritz Advanced Technologies Corp., Allendale
- Leistritz Machinery (Taicang), Co.,Ltd., Taicang
- Leistritz SEA, Pte. Ltd., Singapore
- Leistritz Middle East FZE, Dubai
- Leistritz India Private Limited, Chennai

- Leistritz Pumpen GmbH | Markgrafenstraße 36-39 | 90459 Nuremberg | Germany
P +49 911 4306-0 | F +49 911 4306-490 | pumpen@leistritz.com