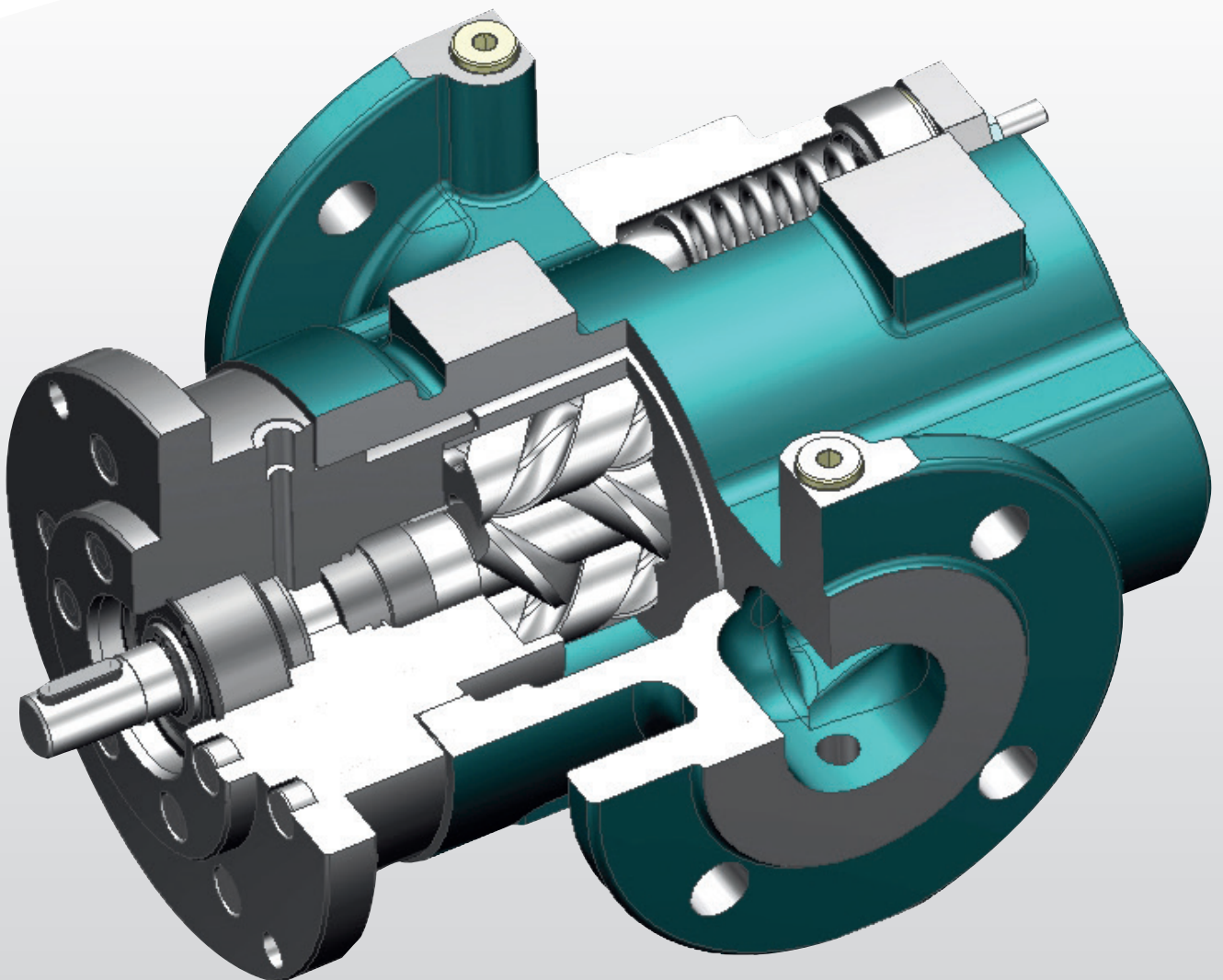
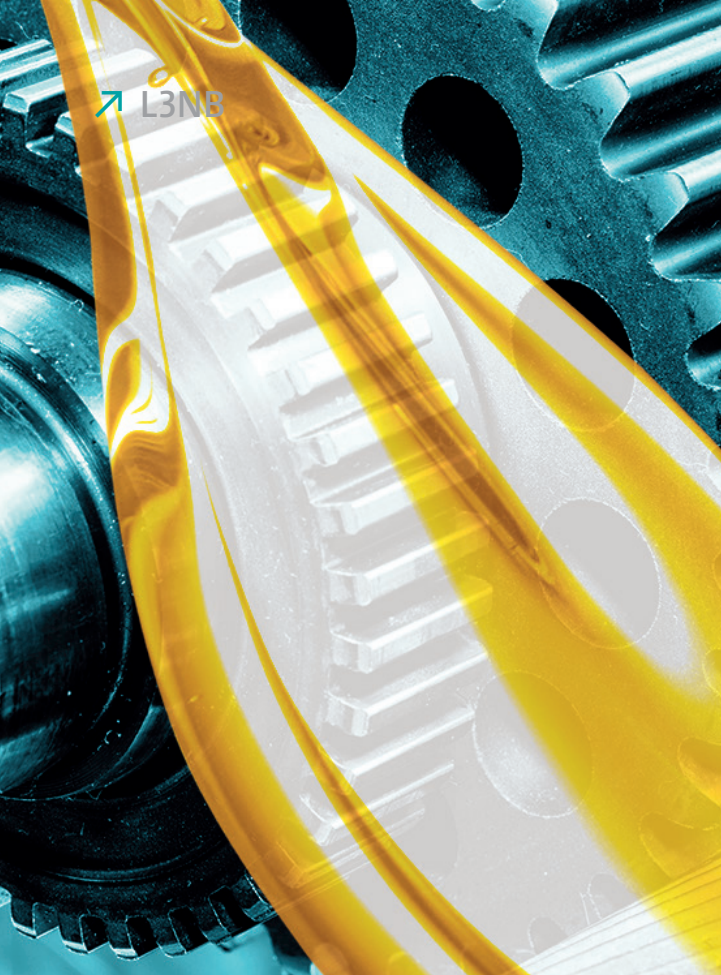


**PUMP** TECHNOLOGY

L3NB screw pump series





## L3NB PUMP

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 cst, due to: reduced sulfur content in ECAS areas since 2015 to 0,1% global sulfur reduction in fuel oils from 2020 to 0,5% worldwide
- **Increasing pressure** for fuel oil system in order to improve engines efficiency

**Combination of both creates critical operating conditions for triple screw pumps!**

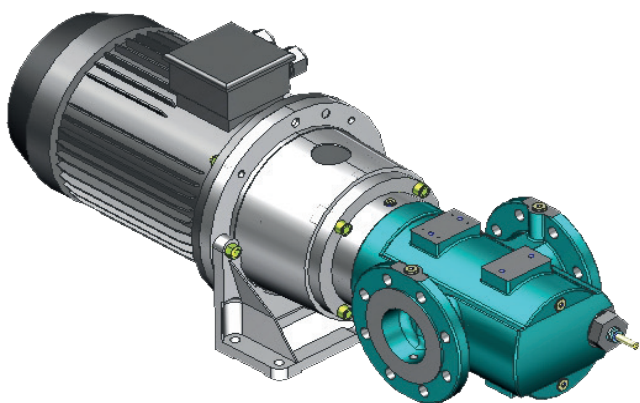
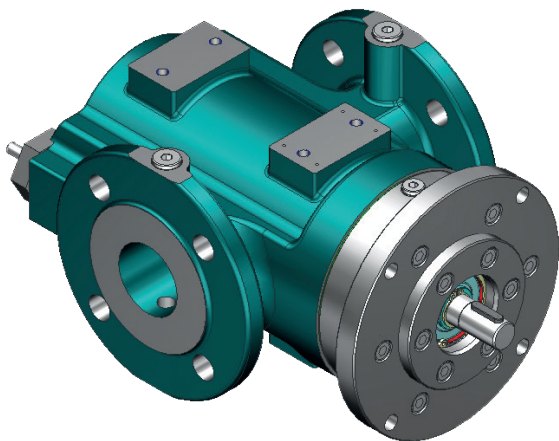
### THE SOLUTION

New Leistriz L3NB pump series allowing **viscosity of 1,4cSt up to 10 bar**, with:

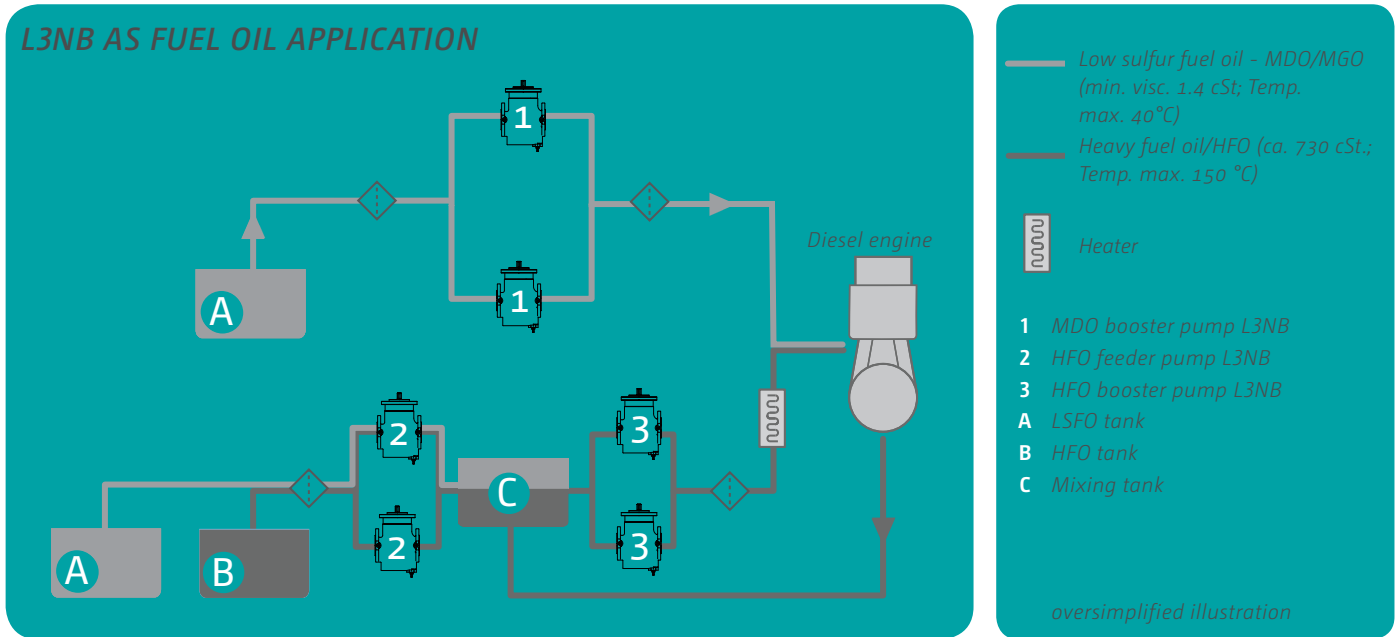
- new and innovative balancing system
- optimized material combination
- simple design
- increased efficiency for less power draw

### 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!



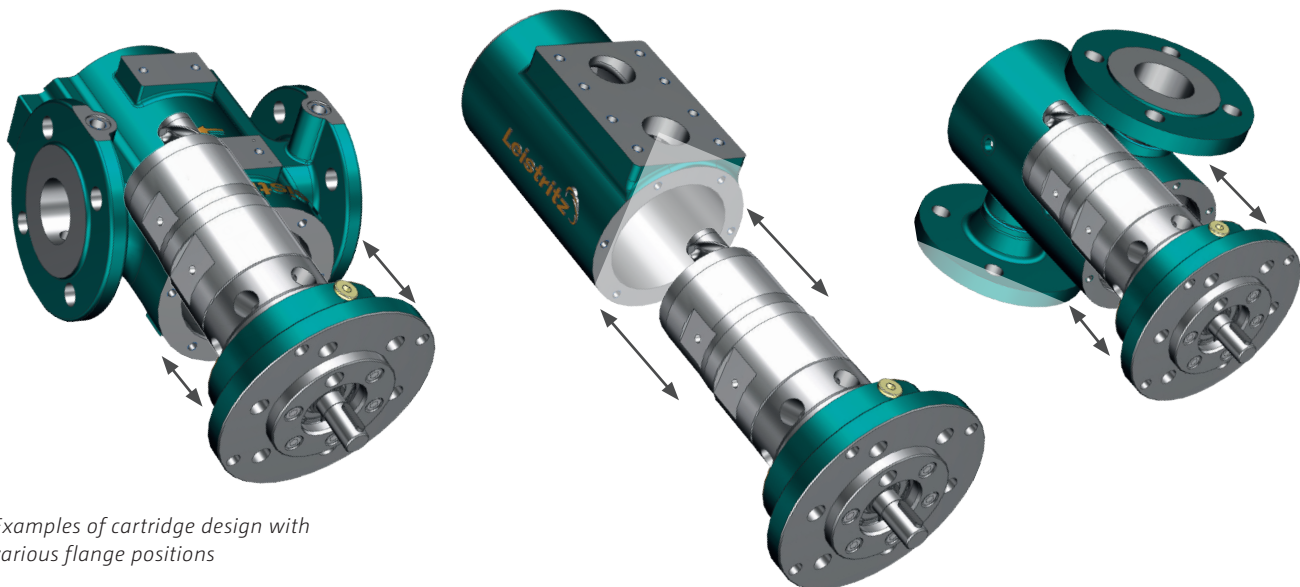
The pump is designed to cover most of the available installations. This means:

- 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

**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 pumping unit of a cartridge design also allows an adaptation of different flange locations of the pump casing (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 <sup>2</sup> /s	1000 mm <sup>2</sup> /s
Operating temperature	-10 °C	150 °C
Flow rate	7 l/min	550 l/min
Suction pressure	-0.4 barg	8 barg
Differential pressure	1 bar	10 bar at 1,4 cSt/16 at > 10 cSt
Casing pressure	design 16 bar	
Speed	1450 1/min	3600 1/min
Ambient temperature	-10 °C	60 °C

\* Fluid: Marine distillate/residual fuel oil (acc. ISO 8217), lube oil

## MATERIAL

Casing	nodular cast iron, fabricated steel, bronze or as requested by customer
Rotors	16MnCrS5 (1.7139) nitrided
Liner	Aluminum