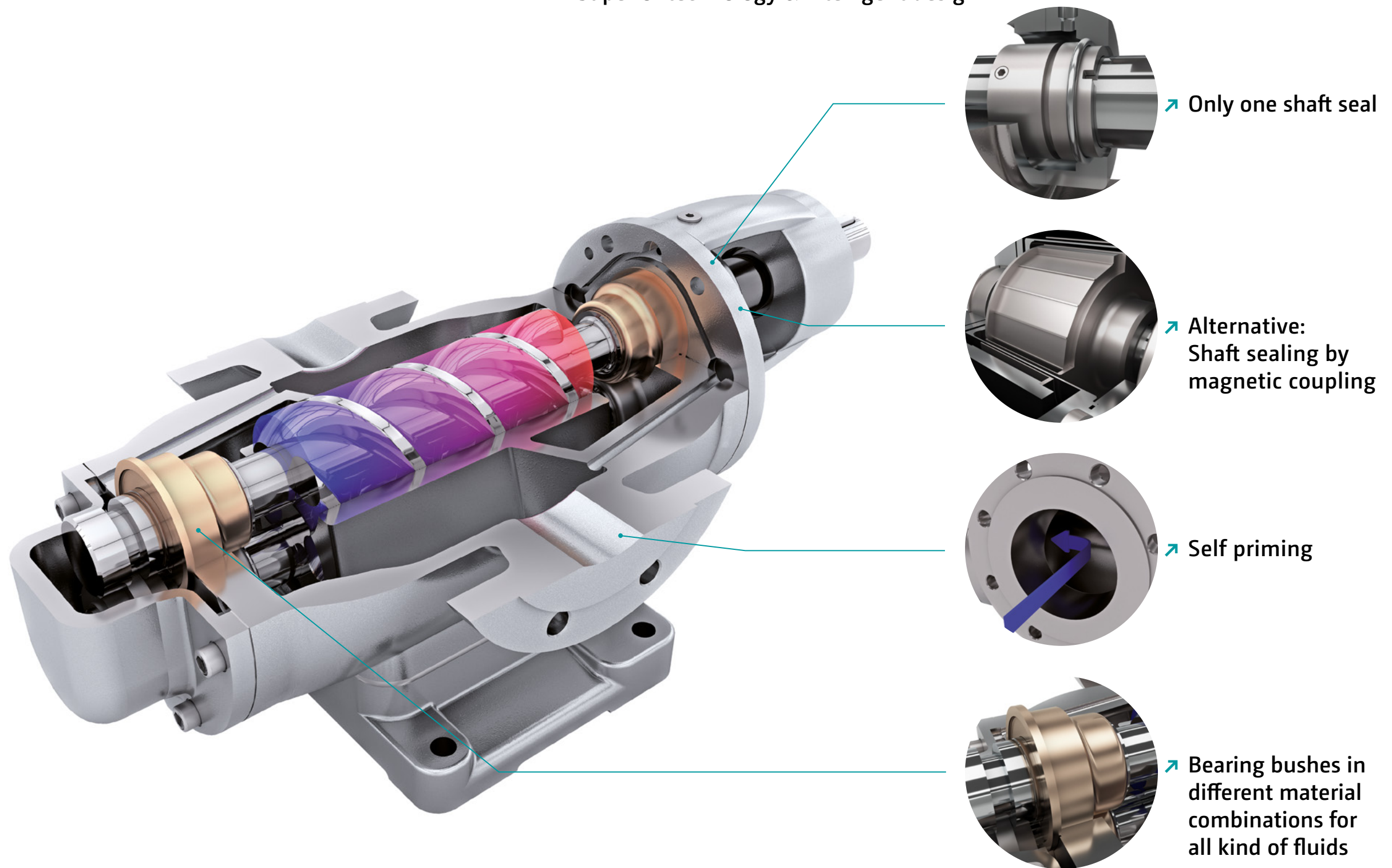


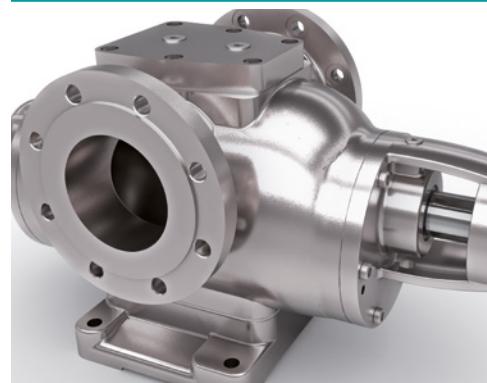
L2 SCREW PUMP

Superior technology & intelligent design



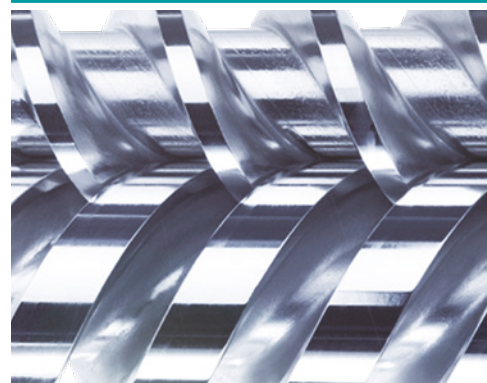
L2 PUMPS

PUMP CASING



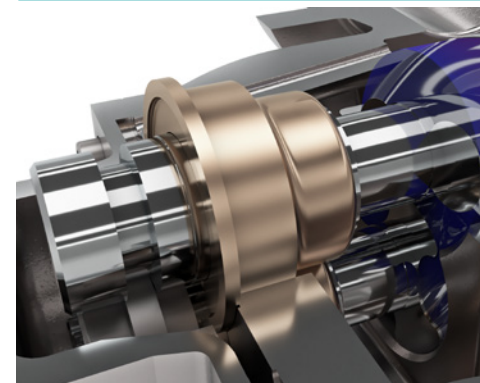
- Casted design with materials from grey cast iron to nodular cast iron and up to cast steel
- Welded design with materials from carbon steel to stainless steel
- Economic and slim design for reduced weight
- ANSI & DIN flanges possible
- Drain and vent connections
- Pump heating available by foot/cover heating for casted design or full jacket heating for steel welded design

SPINDLES



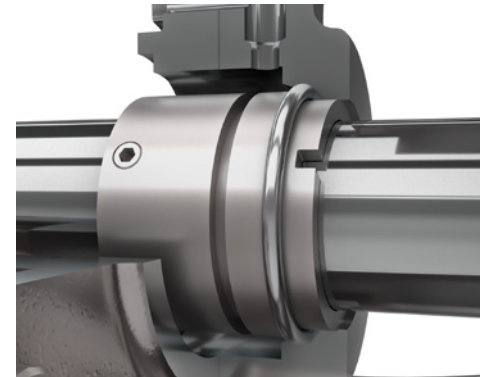
- Single bar stock for maximum stiffness
- Case-hardened steel (1.7139), nitrided for max. hardness
- Optional material steel (1.8550) and chrome steel (1.4122) available
- Smooth running with reduced bearing load due to hydraulic balance of the spindle set

BEARING BUSHES



- Spindle guidance by bearing bushes - no contact between spindle and pump housing
- Different material combinations for all kind of fluids
- Pump flushing with low viscose fluids possible
- Spiral groove design for high viscose fluids

MECHANICAL SEAL



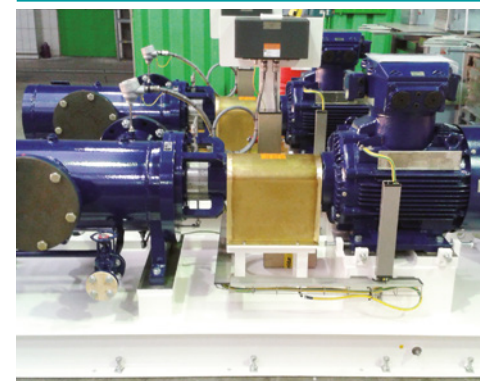
- Only one mechanical seal required
- Design as single or double mechanical seal
- Combination with simple Plan 53 A, other seal supply systems possible
- Steam quench for high viscose fluids possible
- Alternative with magnetic coupling

MAGNETIC COUPLING



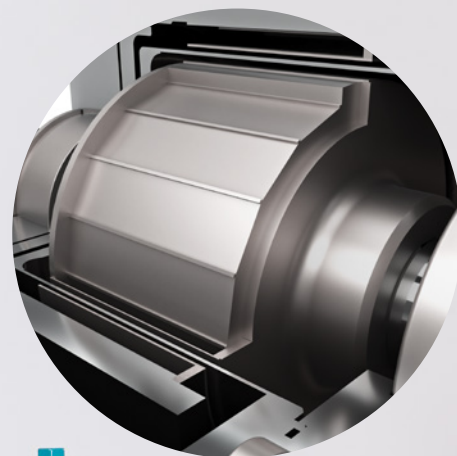
- Critical pumping mediums with toxic substances are not released into the environment
- No waste of valuable fluids
- Sensitive pumping mediums are not exposed to aerial oxygen and therefore the pumping process remains uninterrupted
- At overload the magnetic rotors act like a sliding clutch; the parts will not be destroyed

INSTALLATION / DRIVE



Delivery of complete skids incl.:

- Common baseplate
- Electric motors, hydraulic motors or combustion engines
- Flexible spacer type couplings
- Variable speed drive
- Seal supply systems
- Instrumentation



L2NG-MAK WITH MAGNETIC DRIVE

DESIGN AND OPERATION

Leisritz pumps with magnetic drive are used in many fields of application such as oil firing-, energy-, ship-, and offshore-technology as well as in the chemical and petrochemical industry. Hot heavy fuel oils and a wide variety of chemicals can be pumped by this hermetically sealed aggregate without any problem. Due to our extensive modular principle a wide range of customer demands can be met.

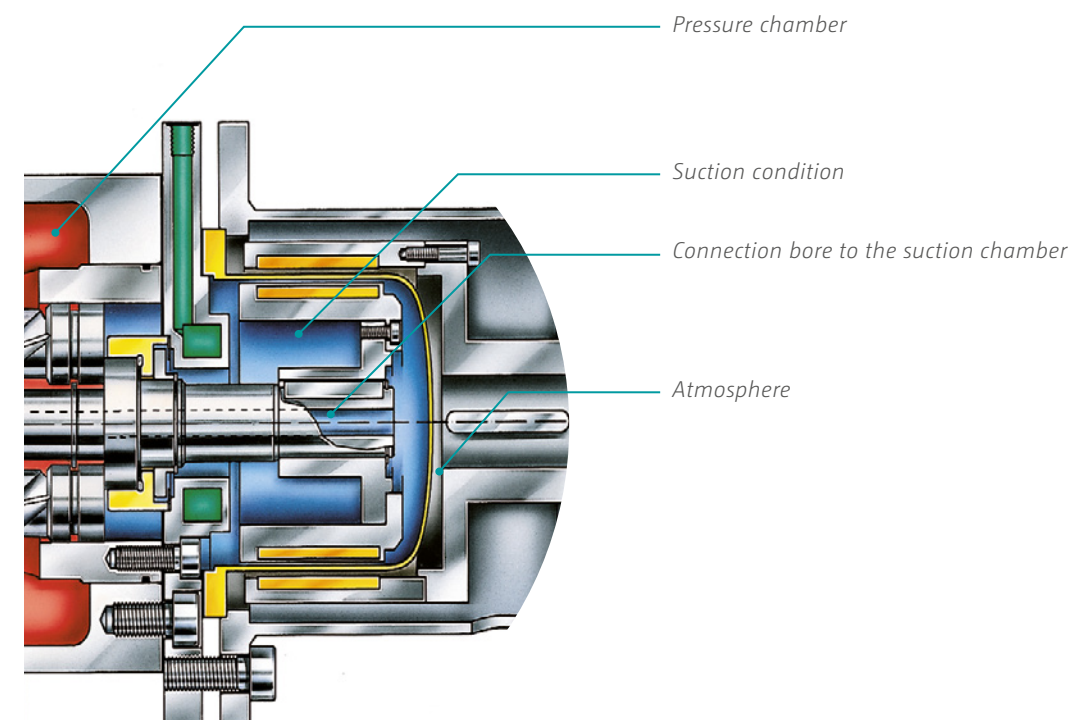
USER ADVANTAGES

- Pedestal aggregate
- Base aggregate on base frame
- Wall mounted aggregate with steelwelded intermediate bracket
- Execution with / without safety valve
- Safety valve with / without handwheel
- Cast pump casing of different materials
- Steel welded pump casing with almost any flange position and flange size
- Steel welded heatable pump casing in double casing execution
- Driving side cover steel welded with ring channel heating
- Separate casing insert for steel welded pumps

Our leakage free L2NG / pumps avoid high operating costs

- Critical pumping mediums with toxic substances are not released into the environment
- No waste of valuable fluids
- Sensitive pumping mediums are not exposed to aerial oxygen and therefore the pumping process remains uninterrupted
- At overload the magnetic rotors act like a sliding clutch; the parts will not be destroyed

L2NG-MAK HYDRAULIC BALANCED



CHEMICAL INDUSTRY



Used as:

- Transfer pump

Pumped liquid:

- Bitumen

Flow rate:

- $Q = 235 \text{ m}^3/\text{h}$ [1035 GPM]

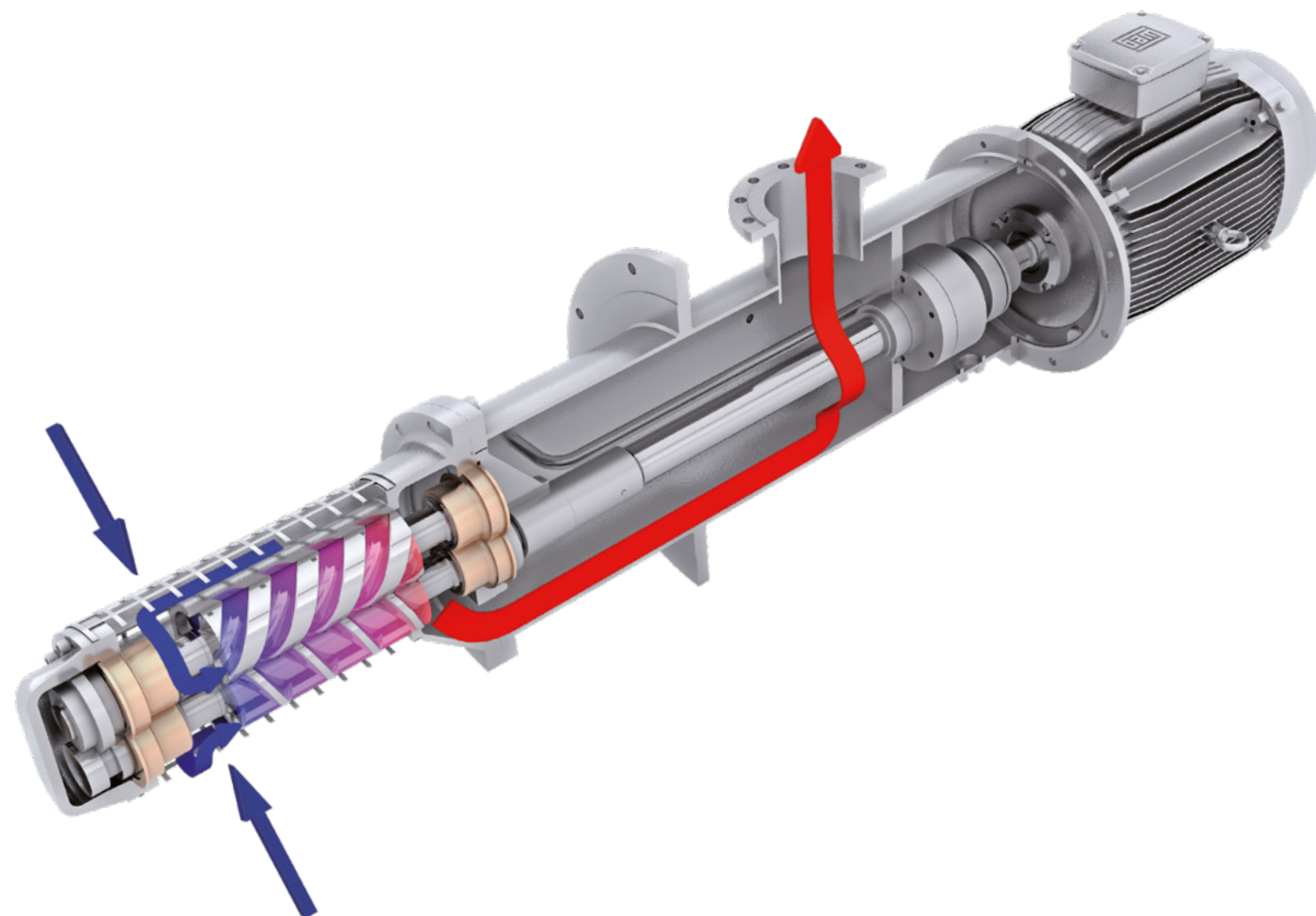
Differential pressure:

- $\Delta P = 8.5 \text{ bar}$ [123 psi]

L2NT SEMI SUBMERGED PUMP

L2 cargo pump for high and low viscosity cargos

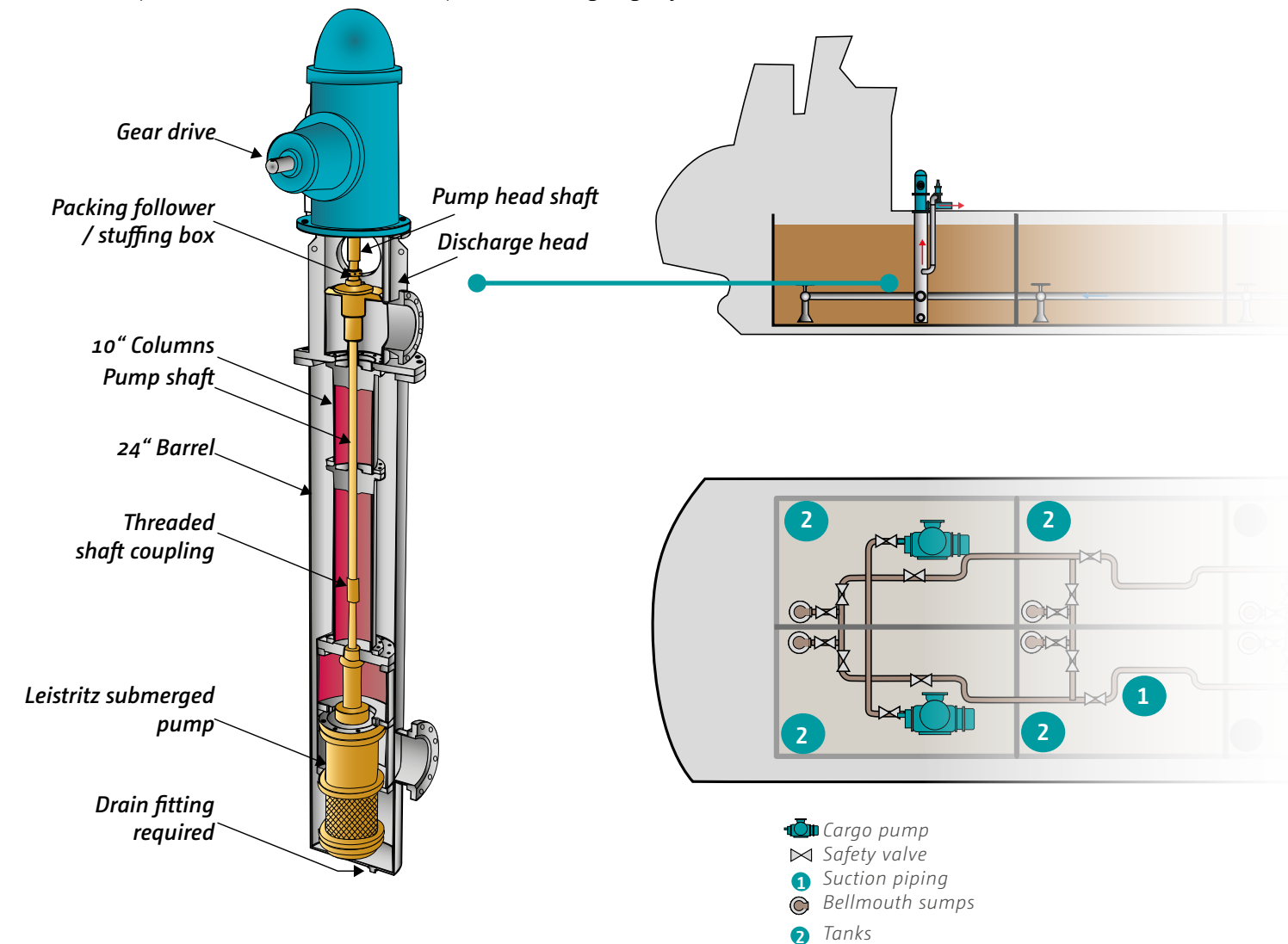
Leistritz screw pumps arranged as vertical submerged pump can be installed e.G. Inside barrel with suction piping between the tanks of the asphalt carrier. Cargo of nearly all viscosities – from kerosene to asphalt – can be unloaded and effectively stripped from tanks and suction lines. The pumps are designed as two-screw single flow pumps for high-capacity unloading and stripping. Drives are suitable as electrical- or hydraulic motor.



Performance data

Typical suction piping arrangement

Leistritz has developed a submerged cargo pump, which can be installed in a separate barrel, normally hanging from the deck in the aft cargo tank. The installation inside the barrel replaces an otherwise required pump room. The barrel works as a large suction chamber providing the pump with additional suction ability. The Leistritz cargo pump has only one shaft seal (stuffing box or mechanical seal) to the atmosphere and is suitable for handling hydrocarbon products and other viscous liquids including slightly abrasive and corrosive fluids.



SHIPBUILDING



Used as:

➤ Cargo pump

Pumped liquid:

➤ Bitumen/asphalt

Flow rate:

➤ Q = 900 m³/h [3,962 GPM]

Differential pressure:

➤ ΔP = 16 bar [232 psi]

Viscosity:

➤ Max. 100,000 mm²/s

Temperature:

➤ Max. 280°C [536°F]