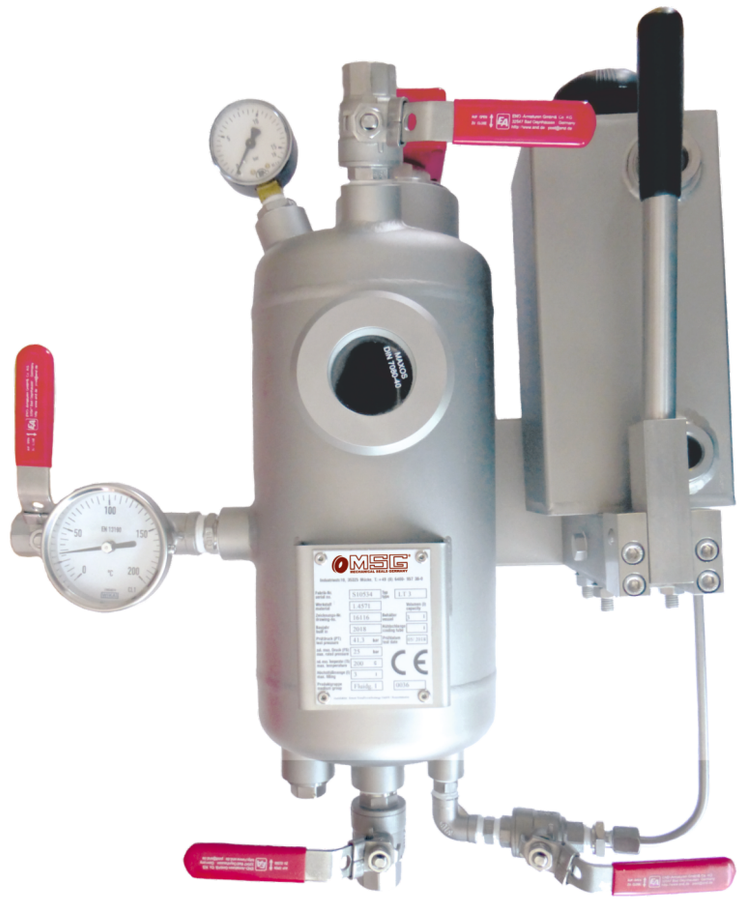
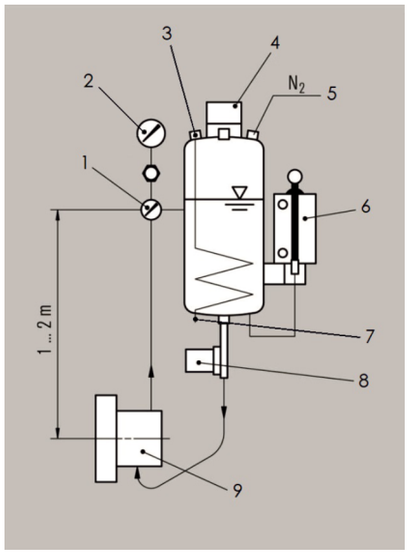
LT20

LT20-3 3 liter, 25bar
LT20-6 6 liter, 25bar
LT20-9 9 liter, 20bar
LT20-12 12 liter, 16bar

Material: 1.4571
max. temperature: 200°C
Optional: Cooling coil





1. Manometer
2. Thermometer
3. Cooling OUT
4. Level switch
5. Pressure control valve
6. Hand pump
7. Cooling IN
8. Circulating pump
9. Double-acting mechanical seal

Typical Industrial Applications

Chemical industry
Oil and gas industry
Petrochemical industry
Refining technology

Standards

- PED 97/23 EC, Design and production in accordance with EU Pressure Equipment Directive
- ASME VIII, Div. 1 (Design, calculation and production)
- Use compressed air or nitrogen for pressurization.

Functional Description

The **LT** system performs all the basic functions of a buffer/barrier system for the operation of double seals:

- to pressurize the buffer chamber
- leakage compensation
- buffer/barrier fluid is circulated by thermosiphon effect or external circulation system
- to cool the seal
- to selectively absorb product leakage and prevent dry running (tandem arrangement)
- Circulation in accordance with API 682 / ISO 21 049: Plan 52, Plan 53A

Operating and Installation Schematic

The **LT** vessel must always be installed higher than the mechanical seal. The buffer/barrier fluid flows via the return pipe into the vessel and is cooled. The exchange of fluid takes place by the thermosiphon principle or by forced circulation, e.g. with a pumping screw. Connection pipes to the seal should be designed with as little resistance as possible.