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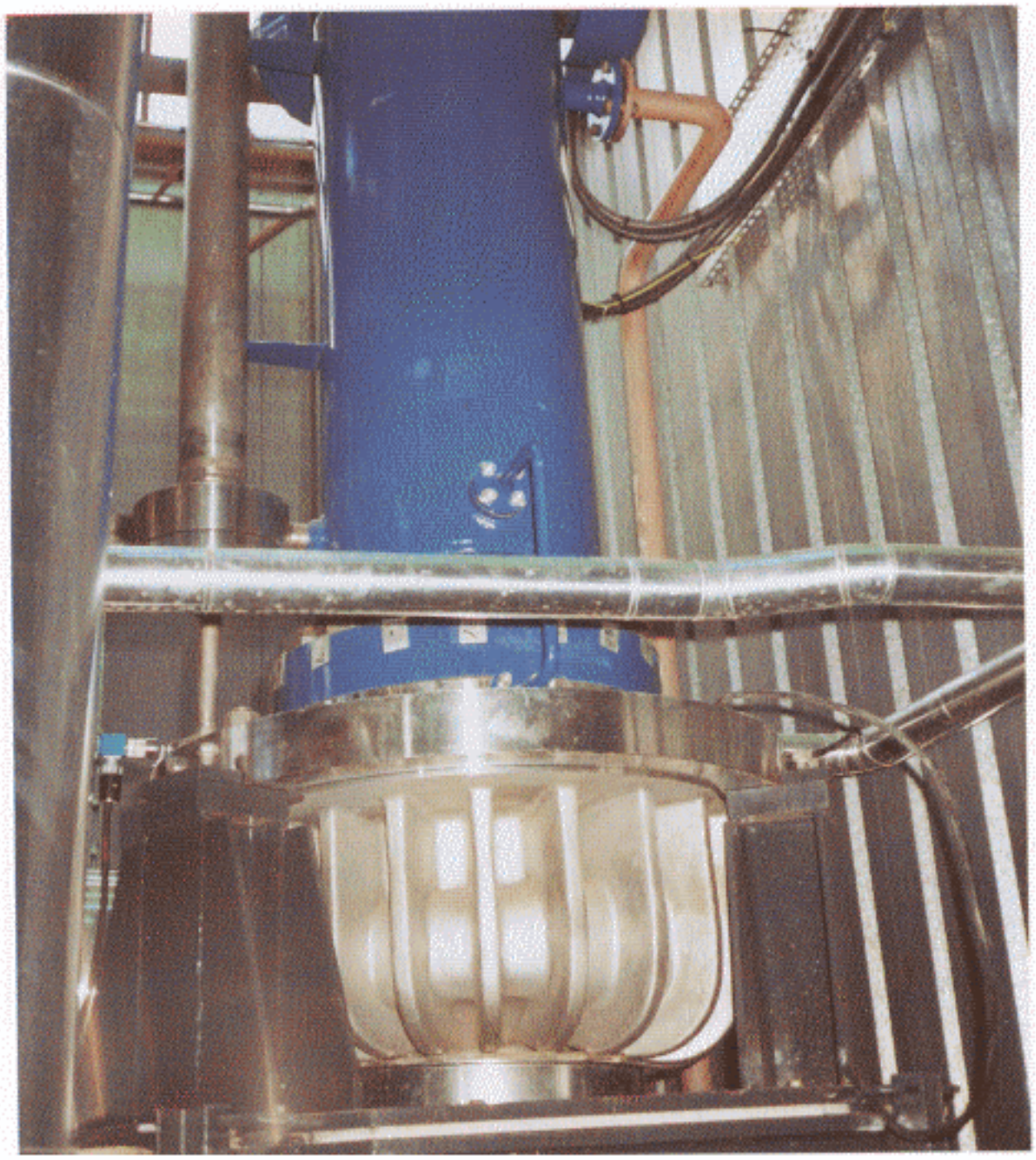
Бессальниковые насосы KSB. Техническое описание

LUS

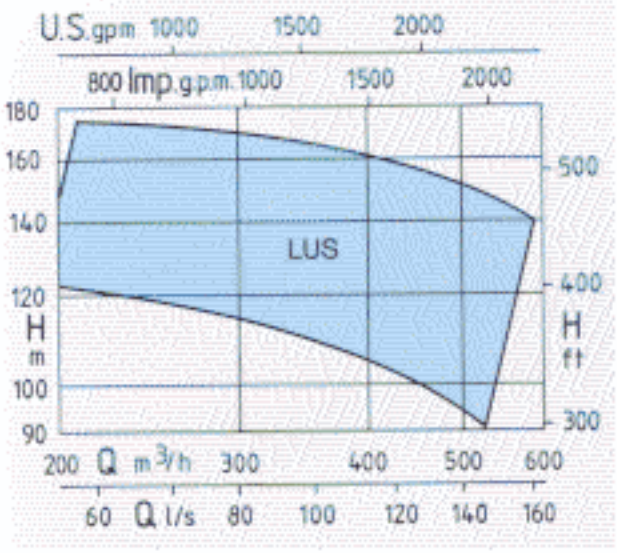


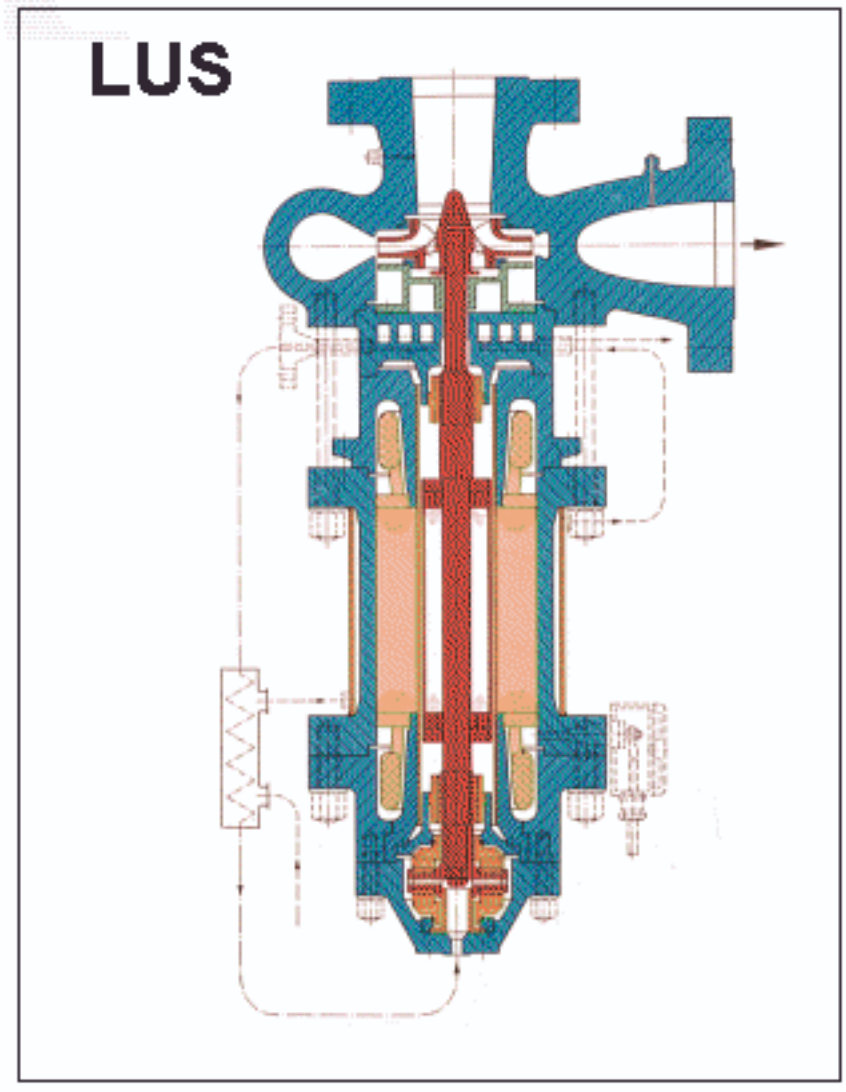
Application =
Glandless canned motor pump for boron injection and miscellaneous reactor systems.

Application =
Groupe étanche chemisé vertical pour injection de bore et alimentation auxiliaire.

Einsatzgebiet =
Stopfbuchslose Spaltrohrmotor-pumpe zur Borsäureinjektion und weitere Anwendungen.

DN	mm	≦	350
Q	l/s	≦	160
H	m	≦	175
p	bar		120
t	°C	≦	300
n	1/min	≦	1 500





Canned-motor circulating pumps with absolutely leaktight casings

Design features

- Glandless canned motor pump, vertical or horizontal arrangement.
- Internal bearings made of graphite or silicon carbide, lubricated by the pumped liquid.
- Class-H motor with insulation material specially selected to withstand radiation; terminals qualified for high-pressure integrity.
- Thermal barrier and heat exchanger for high-temperature service.
- Rotor axial-displacement monitor.

Particularités techniques

- Groupe étanche chemisé en position verticale ou horizontale.
- Paliers internes en graphite ou en carbure de silicium, lubrifiés par le liquide pompé.
- Moteur classe H avec des matériaux spécialement choisis pour leur résistance à l'irradiation; passages étanches qualifiés pour les hautes pressions.
- Barrière thermique et échangeur pour les hautes températures de service.
- Système de détection du déplacement axial du rotor.

Konstruktionsmerkmale

- Spaltrohrmotorpumpe, vertikal oder horizontal.
- Interne mediumgeschmierte Graphit-oder Siliziumkarbidlager.
- Motor der Klasse H mit einem speziell ausgewählten strahlungsbeständigen Isolationsmaterial; Polklemmen hochdruckbeständig.
- Wärmesperre und Wärmetauscher für Hochtemperaturbetrieb.
- Überwachung der axialen Läuferstellung.

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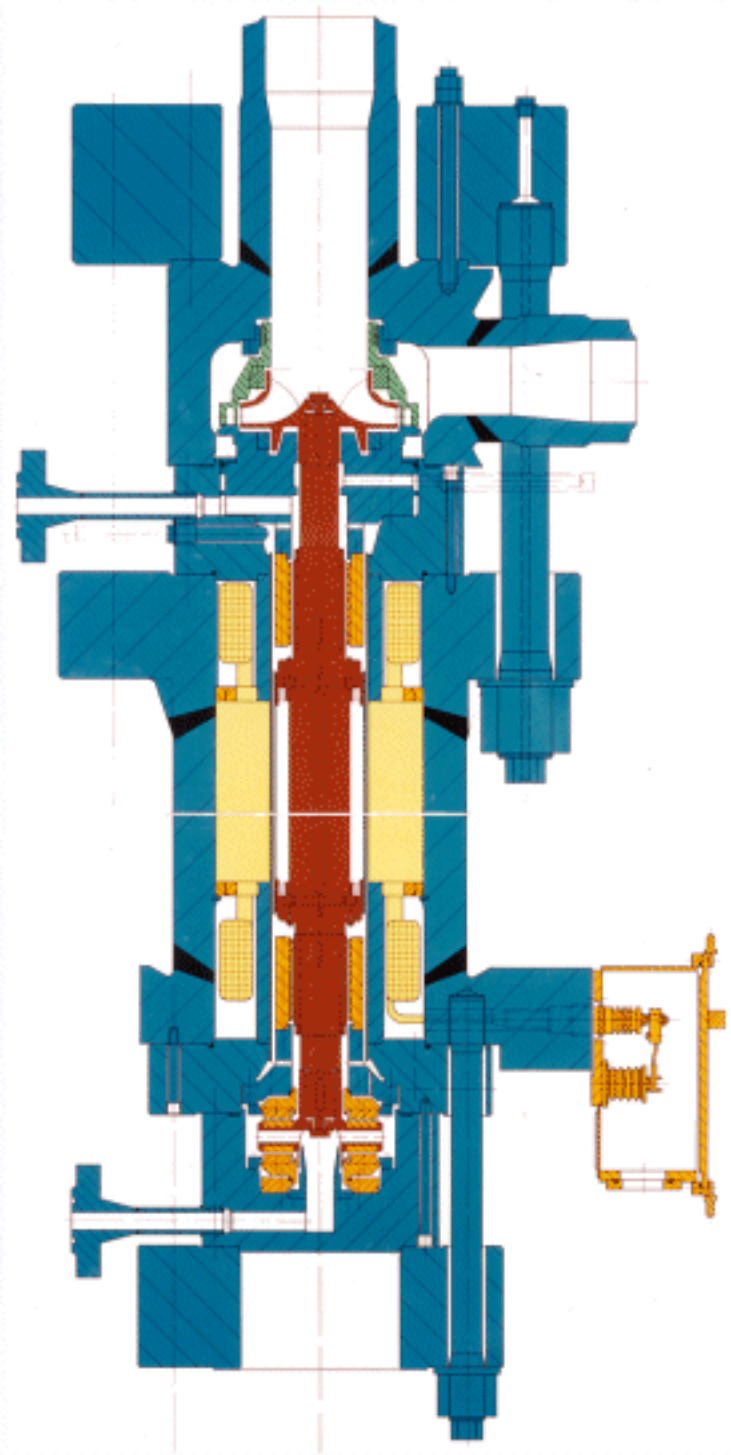

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Pumps ▪ Valves ▪ Service

RUV – Generation 3+ customized Reactor Coolant Pump

Applications:

- Reactor coolant pump for generation 3+ nuclear power stations

More information:

RUV – Generation 3+ customized Reactor Coolant Pump

1 Operational Safety
- Maximum safety due to completely forged pressure boundary
- Hermetically sealed (leakage free, no meachanical seals)
- Perfect rotor dynamic behaviour

2 Integrity under upset conditions
- Motor cooling through thermosyphon effect

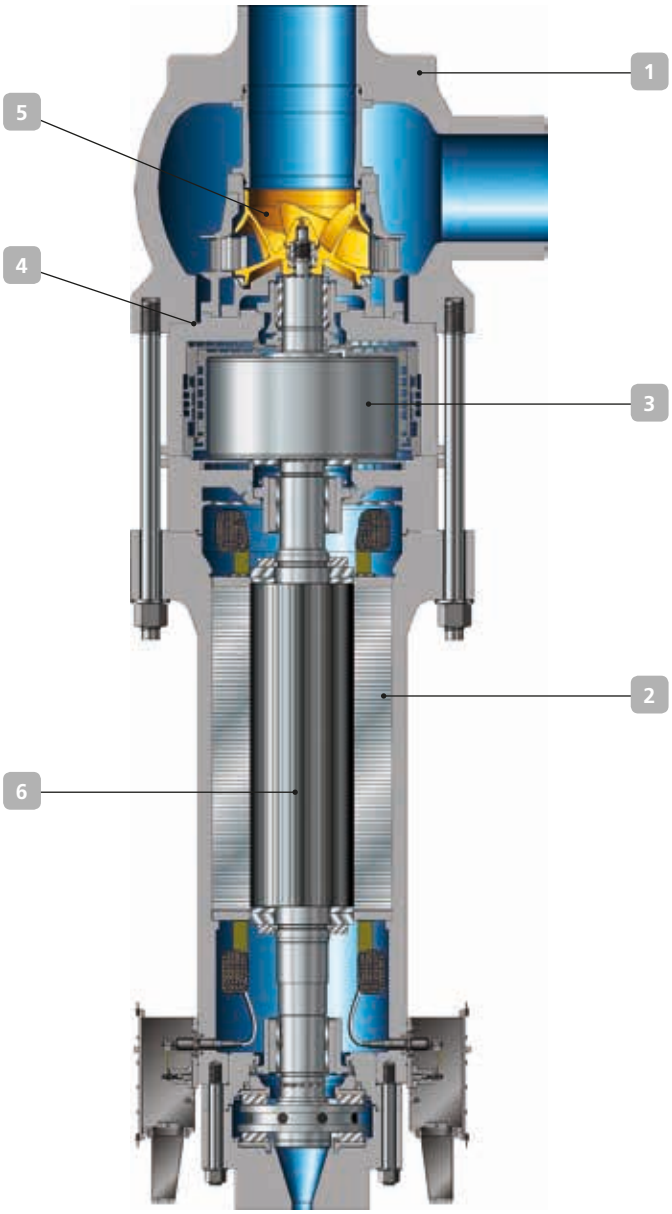
3 Flywheel
- High inertia flywheel to adress coast down requirements

4 Optimized thermal barrier
- Advanced cooling concept for homogeneous temperature distribution

5 Optimized hydraulics
- Well proven design with very high hydraulic efficiency

6 Maximum overall efficiency
- Due to proven wet winding motor technology

7 Maintenance free design



Technical data*

Size	up to DN 650
Pressure	up to 175 bar (17.5 MPa (a))
Temperature	up to 350 °C (662 °F)
Capacity	up to 22,000 m³/h (96,866 gpm)
Head	up to 120 m (394 ft)
Speed	up to 1,800 min^{-1}
Frequency	50 Hz or 60 Hz

*Higher ratings on request

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LUV – Reactor coolant / Reactor water clean-up pump

Applications:

- Reactor water clean-up systems

More information:

LUV – Reactor coolant / Reactor water clean-up pump

High safety and increased plant availability

- Self-contained cooling and lubrication through integrated impeller
- Hermetically sealed pump casing
- No shaft seals
- Symmetrically forged and thermoelastic casing, optimized to handle temperature and pressure transients
- Hot standby at full pressure and temperature loads

Low life cycle costs (LCC)

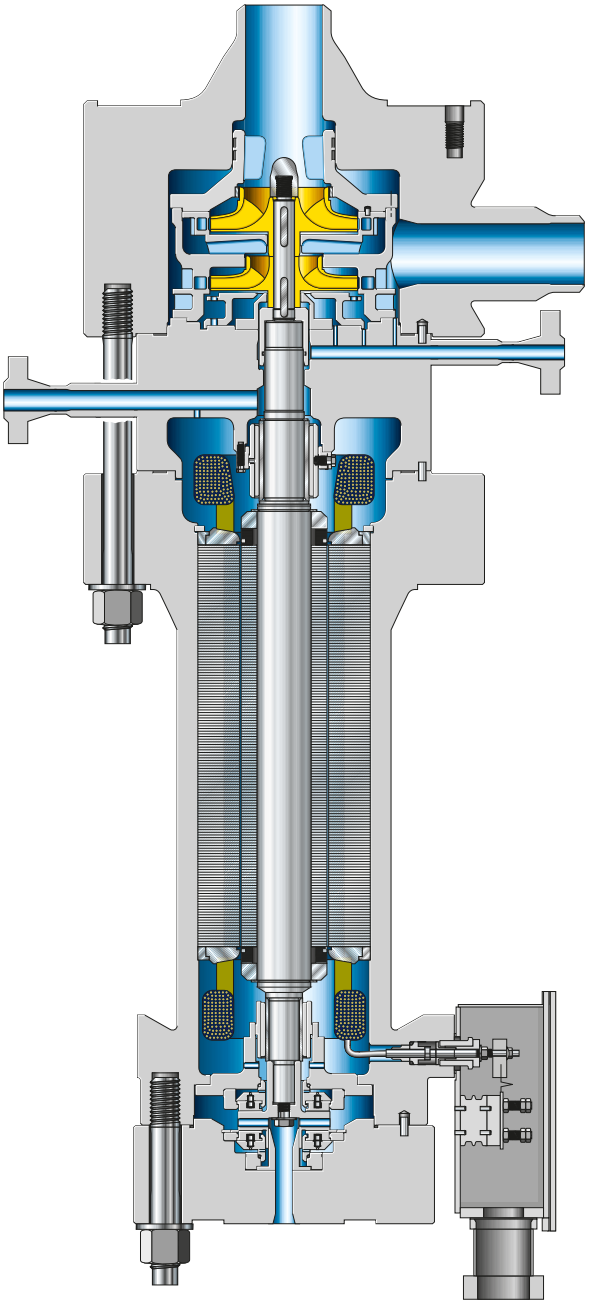
- Long maintenance intervals – major inspection every 10 years
- Stainless steel for all pump parts eliminates corrosion

Reduced radiation exposure (ALARA) and enhanced environmental protection

- Zero leakage
- Long inspection intervals
- Asbestos-free

Quick replacement and maintenance

- Pull-out design – the entire pump/motor unit can be pulled out without having to remove the pump casing, which also reduces the maintenance personnel's radiation exposure.
- Easy access to wear parts



Technical data*

Size	DN 40-600
Capacity	up to 7,000 m³/h
Head	up to 300 m
Operating pressure	up to 320 bar
Temperature	up to +430 °C
Frequency	50 Hz / 60 Hz

*Higher ratings on request

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