

## **RER** – Reactor coolant pump for pressurized water reactor



### Applications:

- Reactor coolant recirculation in nuclear power stations (PWR)

### More information:

[www.ksb.com/products](http://www.ksb.com/products)

# RER – Reactor coolant pump for pressurized water reactor

## Operational safety

- Integrated thrust/radial bearing in addition to motor bearing
- Integrated lube oil unit
- Medium-lubricated guide bearing
- Flexible coupling to motor shaft

## 100% tightness

- Three mechanical seals (double-redundant) plus two standstill seals

## Optimized hydraulics

- Tailor-made impeller/diffuser combination
- Model and full-load performance tests

## Integrity under upset conditions

- Cooling of mechanical seals through thermosyphon effect

## Reduced life cycles costs (LCC)

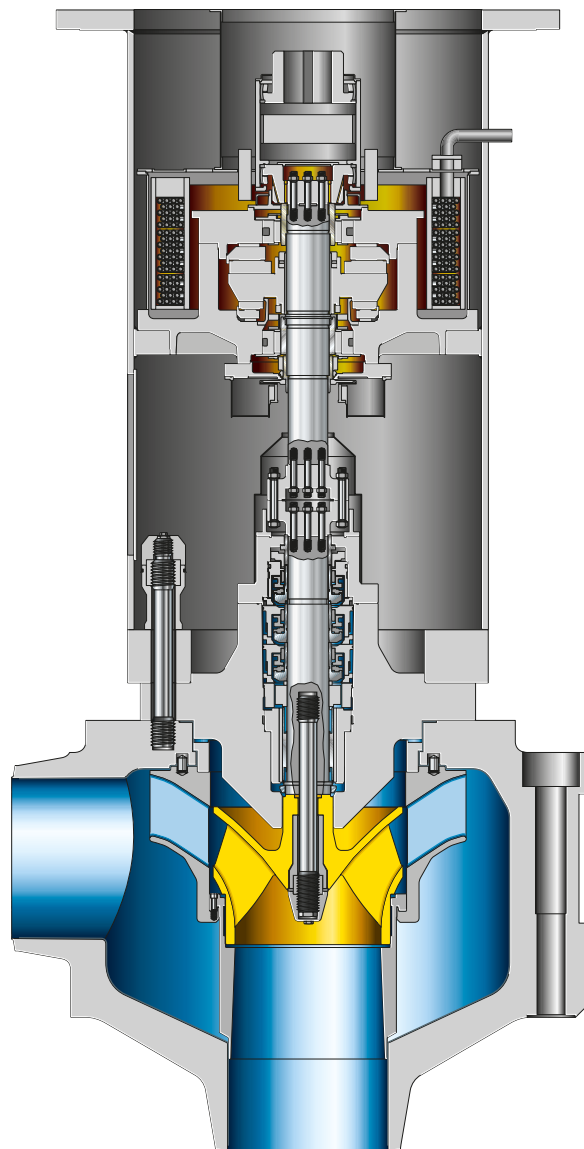
- Very long service cycles thanks to hydrodynamic shaft seals

## Quick inspection

- Self-centering Hirth-type serration on rotor
- Hydraulic stud tensioning
- No dismantling of motor for inspection of seal or bearing

## Minimized overall length

- No coupling spacer
- Annular casing



## Technical data\*

Size	up to DN 800
Capacity	up to 40,000 m³/h
Head	up to 140 m
Operating pressure	up to 175 bar
Temperature	up to +350 °C
Speed	up to 1,800 min <sup>-1</sup>
Frequency	available in 50/60 Hz

\*Higher ratings on request