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



### **Applications:**

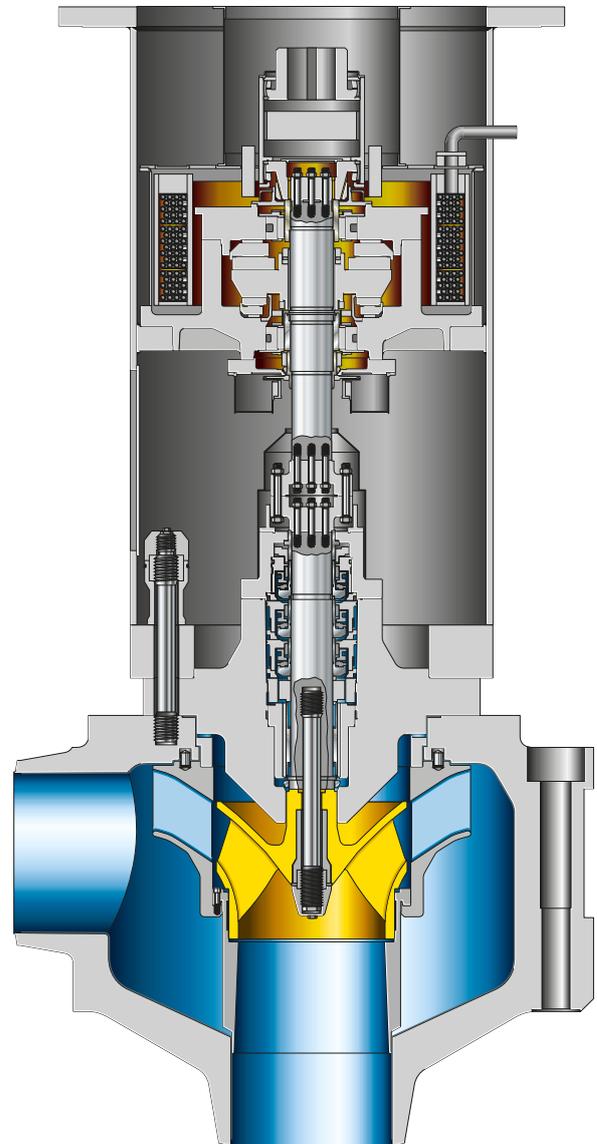
- Reactor coolant recirculation in nuclear power stations (PWR)

### **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 m <sup>3</sup> /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



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