

RER

Reactor coolant pump for pressurized water reactor

压水堆的反应堆冷却剂泵



Applications:

Reactor coolant recirculation in nuclear power stations (PWR)

应用领域:

(压水堆) 核电站中反应堆冷却剂循环。

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压水堆的反应堆冷却剂泵

Operational safety 高的运行安全性

- Integrated thrust/radial bearing in addition to motor bearing
- Integrated lube oil unit
- Medium-lubricated guide bearing
- Flexible coupling to motor shaft
- 除电机轴承外，还装有一体化的推力/径向轴承
- 一体化的润滑油系统
- 介质润滑的导轴承
- 由挠性联轴器连接电机轴

100% tightness 100%封严性

- 3 mechanical seals (double-redundant) plus 2 standstill seals
- 3级机械密封(双冗余度)加上2级停车密封

Optimized hydraulics 优化的水力模型

- Tailor-made impeller/diffuser combination
- Model and full-load performance tests
- 量身定做的叶轮/导叶组合
- 模型和全负载的性能试验

Integrity under upset conditions

事故工况下的完整性

Cooling of mechanical seals through thermosyphon effect
通过热虹吸效应冷却机械密封

Reduced life cycle costs (LCC) 极低的寿命周期成本

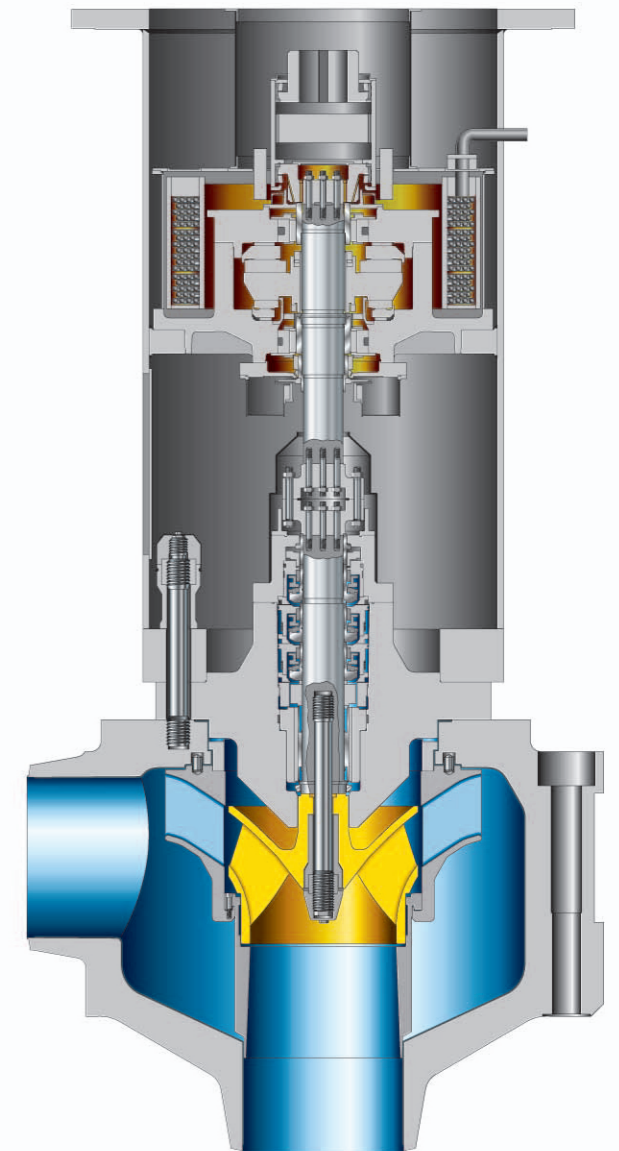
Very long service lives thanks to hydrodynamic shaft seals
流体动压轴密封使得泵使用寿命极长

Quick inspection 快速检修

- Self-centering Hirth-type serration on rotor
- Hydraulic stud tensioning
- No dismantling of motor for inspection of seal or bearing
- 转子上的自定心Hirth齿连接
- 液压拉伸螺栓
- 无需拆卸电机，检修密封或轴承

Minimized overall length 最小的整体长度

- No coupling spacer
- 无中间联轴器
- Annular casing
- 环形泵壳



Technical data* 技术参数

Size 口径	up to DN 800
Capacity 流量	up to 40,000 m ³ /h
Head 扬程	up to 140 m
Operating pressure 运行压力	up to 175 bar
Temperature 温度	up to +350 °C

* Higher ratings on request 可根据需要，满足更高参数的要求。