

PSR – Reactor coolant pump for boiling water reactors



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High safety and structural integrity

- Self-contained cooling and lubrication through integrated impeller and external cooler
- Hermetically sealed, no shaft seals
- No leakage, sealless wet motor design
- Elimination of circulating pipes
- Significant reduction of pipe welding seams in the primary system
- Motor or impeller inspection without draining of the pressure vessel

Increased lifetime

- Low winding temperatures
- Wear-resistant bearings
- Plating of wear surfaces

Smooth operation

- Optimized bearings
- Cellular surface wear rings

Low life cycle costs (LCC)

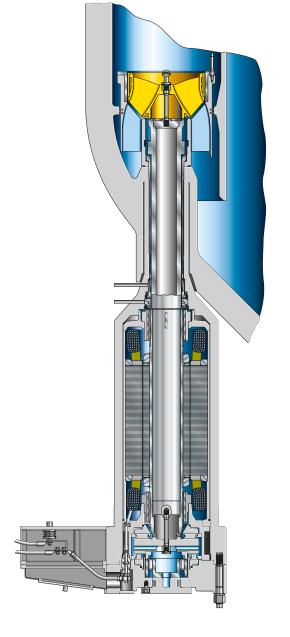
Low circulation pressure drop improves natural circulation and decreases auxiliary power demand

Reduced radiation exposure and enhanced environmental protection

- Zero leakage
- Long inspection intervalsn
- Asbestos-free bearingsn
- Compact containment design
- Components located outside the pressure vessel

Quick replacement and maintenance

- Hirth-type serrations for shaft connections
- Pull-out design



Technical data*

Size	up to DN 600
Capacity	up to 9,000 m³/h
Head	up to 45 m
Operating pressure	up to 75 bar
Temperature	up to +300 °C
Speed	up to 2,000 min ⁻¹
Frequency	available in 50/60 Hz

^{*}Higher ratings on request

