

RVM – High-pressure charging pump



Applications:

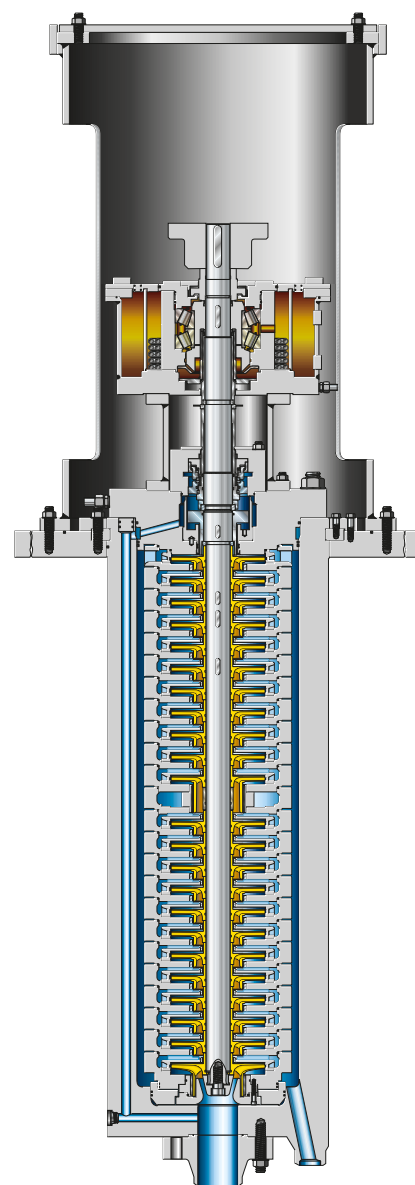
- Core flooding
- Charging flow into reactor coolant system
- Emergency cooling and residual heat removal system
- Volume control systems
- High pressure safety injection systems

More information:

www.ksb.com/products

RVM – High-pressure charching pump

- **Operational Safety**
 - Product-lubricated hydrodynamic guide bearings
 - Non-galling wear rings
 - Insignificant shaft deflection due to vertical arrangement
 - Only one mechanical seal
 - Only one oil-lubricated bearing (combined radial / axial thrust)
- **Direct start-up**
 - No pre-lubrication
- **Quick replacement and maintenance**
 - Pull-out design of pump internals
 - Mechanical seals in cartridge design
- **Minimized exposure to radiation**
 - Separation of (contaminated) pump section from operation floor
- **Pulsation-free pumping**
 - Smooth running and prolonged service cycles of the circuits and machines connected/supplied, e. g. mechanical seal of the Reactor Coolant Pump (RCP)
 - Prolonged maintenance intervals
- **Reduced investment costs**
 - Small installation space thanks to vertical arrangement
- **Reduced susceptibility to failure**
 - Internal oil circulation
 - Elimination of auxiliary devices due to direct-driven pump
 - Rotor guided in a waterlubricated bearing and in interstage bushings



Technical data*

Size	up to DN 85
Capacity	up to 50 m ³ /h
Head	up to 2,000 m
Operating pressure	up to 200 bar
Temperature	up to + 100 °C
Speed	up to 6,000 min ⁻¹
Frequency	available in 50/60 HZ

*Higher ratings on request



KSB Aktiengesellschaft
Johann-Klein-Straße 9
67227 Frankenthal (Germany)
www.ksb.com