



330 HYDRA® EXPANSION JOINTS FOR THE FINAL STORAGE OF HIGHLY RADIOACTIVE WASTE

Application

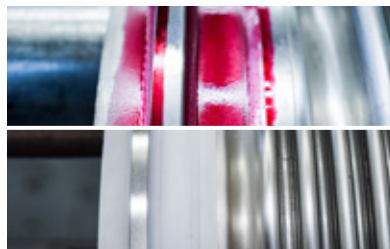
Final storage of highly-radioactive waste compensation for the heat expansion of steel cylinders, containing slowly decaying approx. 250 °C hot, glazed radioactive waste.

Technical data

- DN 500, PN 1
- Material: 1.4571
- Design temperature: 235 °C
- Movement absorption: 160 mm, designed for 50,000 movement cycles – real 1 cycle.
- Design in accordance with: ISO 9001, AD2000-HP0, W0, welder qualification according to relevant customer regulations, DIN ISO, ASME (Section 3 and Section 8), individual additional certification of the particular customer as well as through the nuclear oversight authority

Special features

- Designed for a service life of well over 100 years
- Time-consuming implementation due to 44 customer specifications for the manufacturing process
- Around 5000 pages of final documentation that must remain available for viewing for 30 years



Surface crack test using the so-called "red-white test"



Pressure and leakproof testing in special liquid bath



Preparation for welding the external protective cover



After all tests, monitorings and checks during production, the construction elements are washed with 100% chemically pure water before they are shrink-wrapped in halogenide-free film