

Reactor Coolant Pump Seal Parts

Unmatched Field-proven Experience

Challenge

To ensure your nuclear facility's safe, efficient equipment operations, you need access to critical parts 24/7/365. To address this need, our Nuclear Parts Center (NPC), based in Lynchburg, Virginia, teamed up with the Framatome site in Jeumont, which designs and manufactures the key mobile components for the primary coolant system of nuclear reactors in northern France, to provide reactor coolant pump (RCP) motor and seal hardware to customers in the United States.

Solution

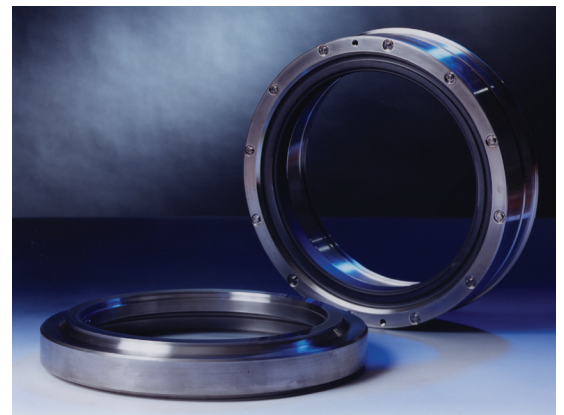
For more than 40 years, Framatome has been designing and manufacturing RCPs, motors and seals for the worldwide nuclear market. Framatome has provided more than 300 complete sets of RCPs, motors and seals in operation throughout the world. Drawing on this global experience, the NPC has been providing Jeumont RCP seals and seal parts for more than 20 years.

Focus on Quality

Framatome focuses only on the highest quality RCP, motor and seal hardware — to all levels of safety classifications. We supply all items in accordance with the applicable portions of our approved Quality Assurance Program which meets the requirements of NCA 3800 and 10CFR50 Appendix B.

Technical Support

Framatome's dedicated team of design, test and fabrication engineers can address any emergent needs at your plant. Greater reliability and increased performance? It's a way of life at the NPC and Jeumont.



Customer benefits

- Design, fabrication and testing to original design requirements
- Backed by years of operating experience
- 24/7/365 hardware and technical support availability
- ASME code, 10CFR50 Appendix B and 10CFR21 hardware supply
- Immediate delivery available from inventory
- Guaranteed stocking programs available
- Equivalency certification to originally supplied hardware

Your performance
is **our** everyday **commitment**

Reactor Coolant Pump Seal Hardware

NPC-supplied parts are currently in operation in more than half of the U.S. pressurized water reactor (PWR) nuclear plants featuring the Westinghouse Model 93, 93A, 93A1 and 100 RCPs. Several U.S. utilities have signed long-term contracts with the NPC, ensuring an emergency supply of hardware on hand at all times.

With a large inventory of RCP seals and seal parts, the NPC stands ready 24/7/365 to support same day or next day shipments as needed. Just-in-time deliveries help customers minimize on-site inventory and associated carrying costs, resulting in substantial savings.

Our Lynchburg, Virginia inventory availability is accessible via our dedicated NPC Customer Inquiry System on the internet at <https://npc.framatome.com>

Reactor Coolant Pump Seal Innovation

Passive Shutdown Seal (PSDS): With more than 50 cumulative years of operations in the United States, Europe and Asia, the PSDS is an additional safety system for existing hydrostatic seals, installed in the No. 1 seal insert. This self-actuated device is triggered only in accidental conditions when water temperature within the shaft seal system rises. The PSDS is qualified to withstand station blackout and extended loss of AC power conditions for an extended period and ensures perfect leak tightness.

A battery of tests have been carried out to ensure the reliability and the repeatability of the triggering, its resistance to aging phenomena, and the absence of impact on the seal behavior in normal operation. The PSDS is a safety device that protects the RCP and the entire reactor coolant system in accident conditions.



For more information on the RCP seals and seal parts and to view all our parts online, visit: <https://npc.framatome.com>

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