



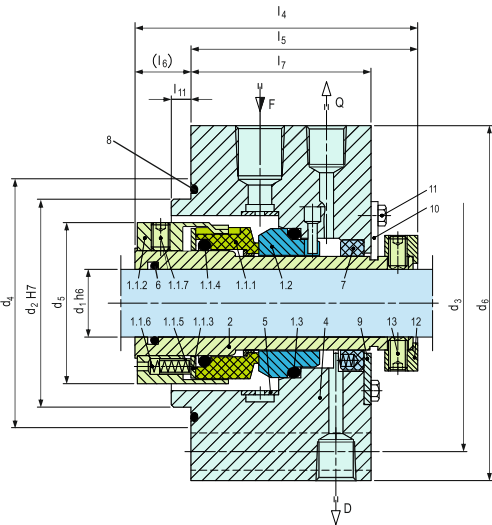
sealmatic®

Sealmatic Delivers B750 Seal For DM Water For Ingersoll Rand Pump At Nuclear Power Corporation

Nuclear power provides the world with around 11% of its total electricity, with the largest producers being the United States and France. Aside from the source of heat, nuclear power plants are very similar to coal-fired power plants. However, they require different safety measures since the use of nuclear fuel has vastly different properties from coal or other fossil fuels. They get their thermal power from splitting the nuclei of atoms in their reactor core, with uranium being the dominant choice of fuel in the world today. Typical nuclear power plants achieve efficiencies around 33-37%, comparable to fossil fueled power plants.

Sealmatic has experience in the design and development of mechanical seals for critical pumps for nuclear power stations. Cutting-edge technology is employed alongwith high-quality materials for mechanical seals in nuclear power stations. Many important pumps in the nuclear power plants are equipped with mechanical seals. The good performance and reliability of mechanical seals depend specially on the quality and the stability of an interface of several microns. Peripheral speed reaches 50 m/s and pressure 5 MPa, shaft diameter may be 200 mm. Any failure of the mechanical seals may stop the production of electricity or may compromise nuclear safety.

Sealmatic has delivered its high performance B750 mechanical seal to NPC Tarapur meeting the above stringent requirements.



Performance Capabilities

- Sizes: d = Upto 110 mm (Upto 4.250")*
- Pressure: $p_1 = 40$ bar (580 PSI)
- Temperature: $t = -40$ °C...+220 °C (-40 °F...+428 °F)
- Speed = 23 m/s (75 ft/s)
- Permissible axial movement: $\pm 2.0 \dots 4.0$ mm depending on diameter and installation situation
- * Other sizes on request

API SPEC Q1 · API · ISO 9001:2015 · EU 1935:2004 · ATEX - 2014/34/EU · ISO 9001:2015 · ISO 14001:2015 · BS-OHSAS 18001:2007 · PED-CE

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