

## Tori Seal Mechanical Seal Case Histories

## Main Cooling Water Pump

**Region:** Middle East **Plant Type:** Desalination Plant Pump Model: SPV Vertical Mixed Flow Pump No. of Pumps: **Delivery Date:** March 1997 Service: Main Cooling Water Liquid: Sea Water Pumping Temperature: 23-33°C Flow Rate: 23,903 m<sup>3</sup>/hr **Total Head:** 36 mtrs





Seal Type: Seal Code: Shaft Size: Metallurgy: Face Materials: Elastomers: Seal Pressure: Pump Speed: Face Velocity: API Plan: MB2910 Rotating Balanced Semi-Spit Seal MB2910BN15BH240 240mm 316L Stainless Steel 316L Stainless Steel/Carbon NBR 2.5 – 3.5 barG 445 rpm 6.5 m/s 32 (External - during startup)





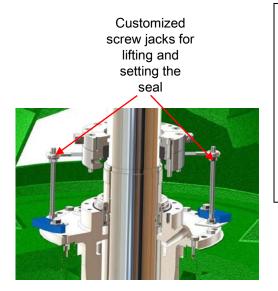


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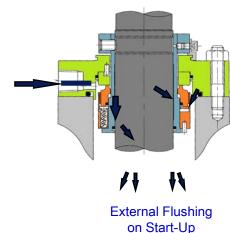
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A total of 9 pumps were supplied in 1997, all fitted with the MB2910 mechanical seal. Since then until 2016, a total of only 13 spare seals were ordered with the longest interval of no spare seals being ordered being over 5 years.

Over a 19 year period a total of 22 seals (including the seals fitted to the new pumps) have been, and are still being used. This equates to a average seal usage of 2.4 seals per pump over 19 years, resulting in an average seal life of 7.8 years per seal.

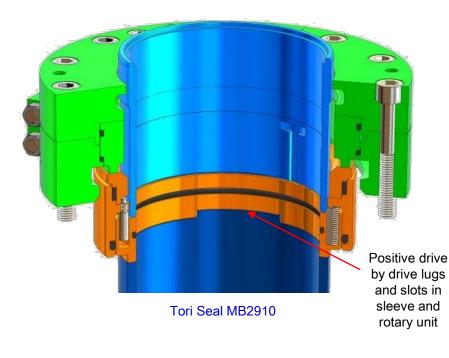
The customer is extremely satisfied with the performance of these seals. The Main Cooling Water pumps are a critical part of the plant and require a reliable and durable mechanical seal.





### Tori Seal MB2910

Split glands for easy maintenance









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