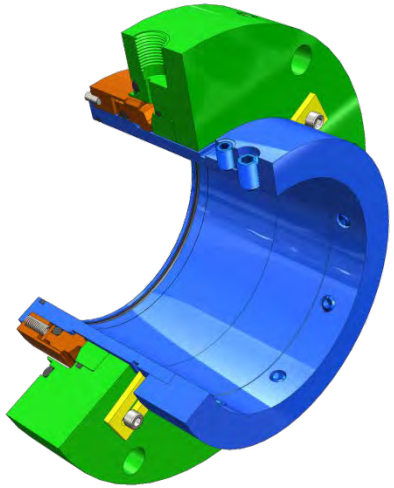
Tori Seal Mechanical Seal Case Histories

Hotwell Pump

Plant Type:	*Geothermal Power Plant*
Pump Model:	*Vertical Double Suction Pump*
Service:	*Hotwell*
Liquid:	*Geothermal Condensate*
Pumping Temperature:	*40.9ºC*
Flow Rate:	*6,700 m³/hr*
Total Head:	*24.5 mtrs*



Seal Type:	***MB2704 Rotating Balanced Cartridge Seal***
Shaft Size:	*125mm*
Metallurgy:	*316L Stainless Steel*
Face Materials:	*Silicon Carbide/Silicon Carbide*
Elastomers:	*Viton*
Seal Pressure:	*2.5 – 3.5 barG*
Pump Speed:	*590 rpm*
Face Velocity:	*4,7 m/s*
API Plan:	*13 (Reverse - during operation)* *32 (External - during startup and standby)*

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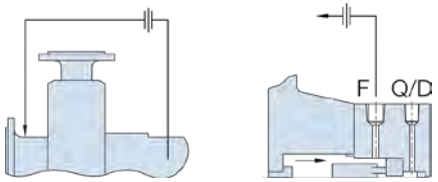
The cost and delivery of the existing seals were high and long. Tori Seal was able to offer a zero modifications retrofit into the existing stuffing box without any pump modifications required.

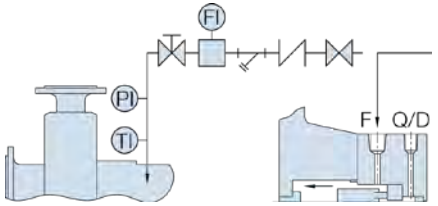
The materials offered were intended to match or improve the existing seal's materials and handle the application's speed, temperature and pressure parameters.

The cost comparison was one of the major benefits for the customer. The Tori Seal MB2704's price was 77% of the existing seal which resulted in huge savings for the customer.

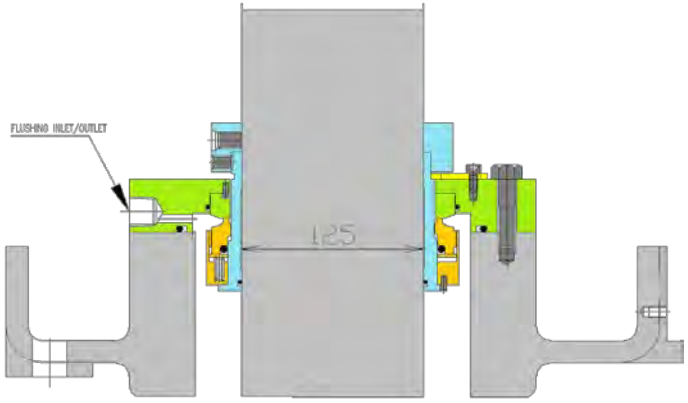
In addition, the target was to offer the customer an improved lead time.



Plan 13 Reverse Flushing



Plan 32 External Flushing



Tori Seal MB2704

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TORI SEAL

Over Half a Century of Sealing Reliability