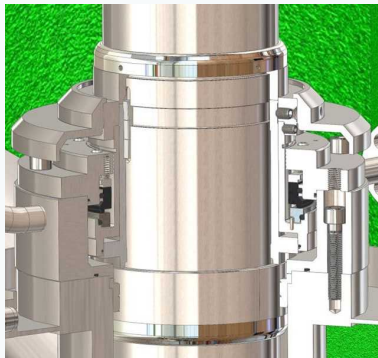
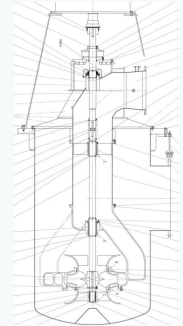


TORISEAL Mechanical Seal Case History

Brine Recirculation Pump

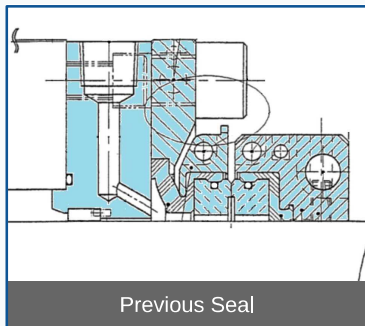
Plant Location:	Dubai, United Arab Emirates
Plant Type:	Desalination and Power Plant
Pump Model:	CDKTV Vertical Double Suction Pump
No. of Pumps:	17
Delivery Date:	October 2019
Service:	Brine Recirculation
Liquid:	Brine
Pumping Temperature:	52°C
Flow Rate:	14,830 m ³ /hr
Total Head:	84 mtrs



Seal Type:	<i>MT8904 Rotating Balanced Cartridge Seal</i>
Seal Code:	<i>MT8904DQ1BYY210</i>
Shaft Size:	<i>210mm</i>
Metallurgy:	<i>Super Duplex Stainless Steel</i>
Face Materials:	<i>Tungsten Carbide/Tungsten Carbide</i>
Elastomers:	<i>NBR</i>
Seal Pressure:	<i>8.4 barG</i>
Pump Speed:	<i>590 rpm</i>
Face Velocity:	<i>7.4 m/s</i>
API Plan:	<i>13 (Reverse - during operation) 32 (External - during startup and standby)</i>

TORISEAL Mechanical Seal Case History

Brine Recirculation Pump



The previous seal failed often, in a matter of months, with a high cost and long delivery time. The TORISEAL retrofit option offers a zero modifications solution into the existing stuffing box and pump.

The retrofitted seal offers an improved design comparing to the previous seal considering the application's harsh sealing environment such as speed, temperature, pressure, and high solids content.

The cost comparison was one of the major benefits for the customer. The TORISEAL MT8904's price was 50% less expensive than the existing seal → savings for the customer.

In addition, the lifespan of the TORISEAL has provided a drastic improvement for the customer's plant reliability - currently 3 years and running.

