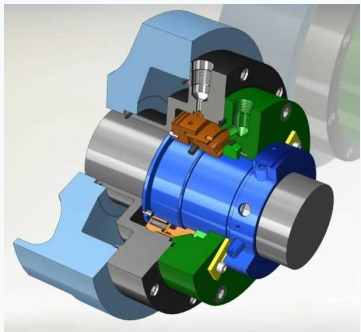
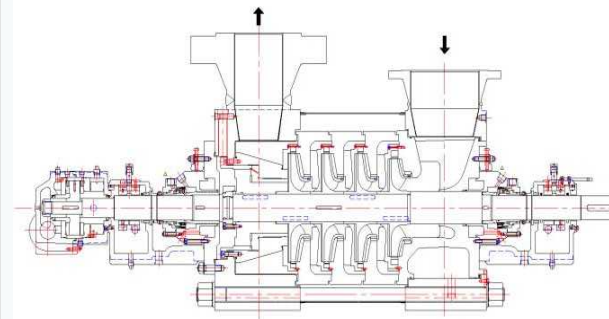


TORISEAL Mechanical Seal Case History

Boiler Feed Pump

Plant Location: *United Arab Emirates*
 Plant Type: *Power and Desalination*
 Pump Model: *MHG Multi-Stage Ring Section Pump*
 No. of Pumps: *5*
 Delivery Date: *June 2016*
 Service: *Boiler Feed*
 Liquid: *Feed Water*
 Pumping Temperature: *139°C*
 Flow Rate: *392 m³/hr*
 Total Head: *980 mtrs*

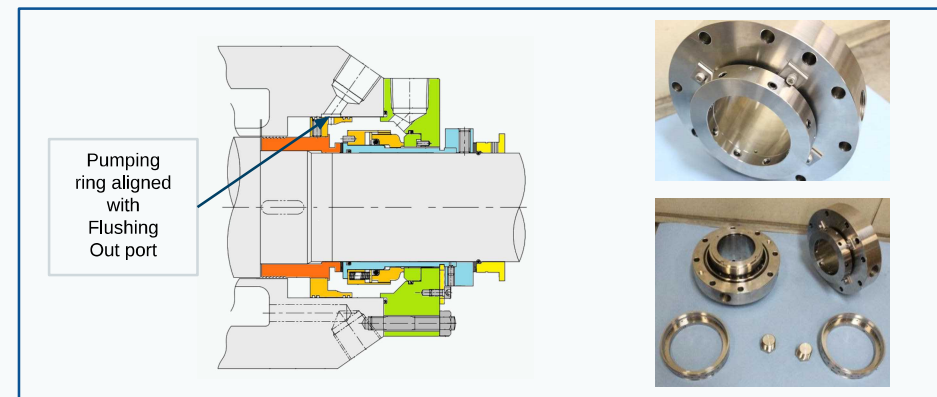
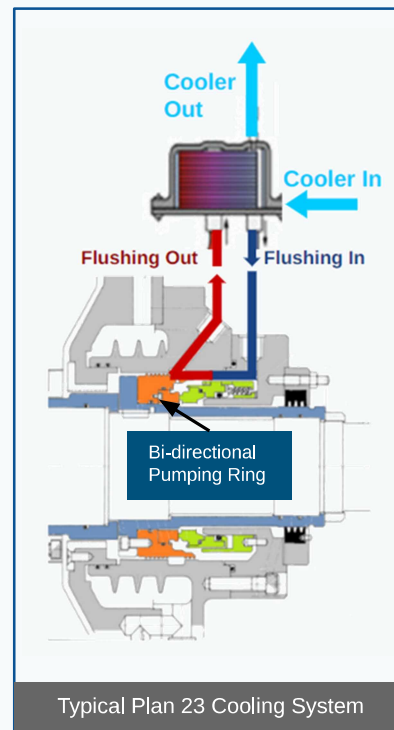
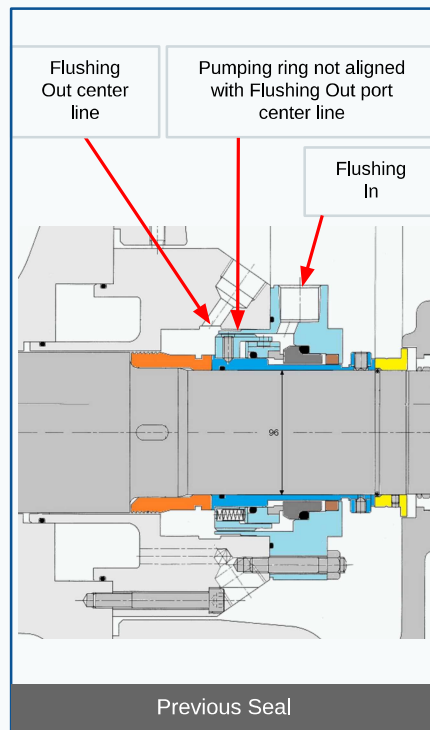


Seal Type: **MT2706 Rotating Balanced Cartridge Seal**
 Seal Code: *MT2706GN53DL096*
 Shaft Size: *96mm*
 Metallurgy: *316 Stainless Steel*
 Face Materials: *Silicon Carbide/Antimony Carbon*
 Elastomers: *Viton B*
 Seal Pressure: *4.5 – 11.4 barG*
 Pump Speed: *2,982 rpm*
 Face Velocity: *18.7 m/s*
 API Plan: *02, 23*

Teamwork Diversity Professional Clarity Enthusiasm Innovation

TORISEAL Mechanical Seal Case History

Boiler Feed Pump



The cooling system for BFP are a crucial. In order to cool the stuffing box, the MS includes a pumping ring to circulate the water through a heat exchanger.

Previous seal pumping ring was not aligned with the Flushing Out port → Lower flow rate of the circulating water → Less cooling efficiency → More heat at the seal faces.

TORISEAL MT2706 ensured the alignment between the pumping ring and the Flushing Out port → optimal flow of the cooling water → maximum cooling efficiency → extended seal life.

In addition, TORISEAL offers a cost effective alternative to the previous mechanical seal.