



sealmatic[®]


Sealmatic Successfully Delivers Mechanical Seals For Subcritical Thermal Power Plant 500 MW

Sealmatic is pleased to announced that it has successfully delivered seal type SBF single mechanical seal in BFW (Boiler Feed Pump) in order to meet the demanding operating conditions and stringent requirements as mentioned above, thus bringing consistent and cost-effective sealing method, operation and maintenance with a view to achieve highest safety standards.

In a subcritical power plant, steam pressure is below 3200 psi and the temperature is below 550°C. Subcritical units have efficiencies of between 33% and 37%; i.e., between 33% and 37% of the energy in the coal is converted into electricity. The water/steam mixture leaving the risers is separated into water & steam in the drum. The steam flows into the superheater and the water are returned to the evaporator inlet through down comers.

In a subcritical thermal power plant, mechanical seals for Boiler Feed Water Pumps are one of the most critical equipments employed. With newer technologies, the increases in the capacity of equipment for thermal power generation, improvements to adapt to higher temperatures and pressures, and changes in operation method, mechanical seals have been improving and advancing.

Sealing systems featuring maximum operational reliability, convenient maintenance and low leakage rates with necessary environmental protective measures are standard requirements in modern power stations. Sealmatic mechanical seals are designed for higher capacities and performance, improvements to the structure design for increasing the stress resistance so that they can adapt to more severe conditions in the operation of thermal power plants.

Operating Parameter For Boiler Feed Water Pump						
Sr No	Seal Type & Size	Speed (RPM)	API Plans	Media	Temperature (°C)	Stuffing Box Pressure (kg/cm ²)
1	91-SBF200/135-G912	6300	23	Boiler Feed Water	40-200°C	35 kg/cm ²
3	91-SBF300/162-G917	6300	23	Boiler Feed Water	40-200°C	35 kg/cm ²

Sealmatic Type SBF Mechanical Seal For Boiler Feed Water Pump

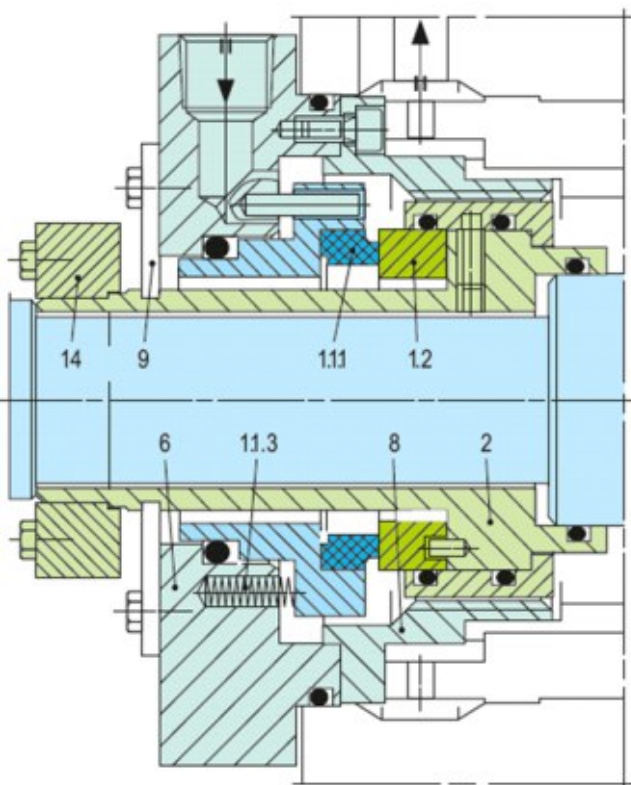
Type SBF is a balanced mechanical seal and independent of direction of rotation, it provides robust construction with the shrink-fitted seal face, and employed with the pumping screw.

Performance Capabilities

- Sizes: d1* = Upto 250 mm (Upto 10.000")
- Pressure: p1 = 50 bar (725 PSI)
- Temperature: t = 300 °C (572 °F)
- Speed = 60 m/s (197 ft/s)
- Permissible axial movement: ±3 mm

Technical Features

- Accommodates shaft deflections due to stationary design.
- Can be designed for individual pump application with corresponding connection parts to be adapted to the pump seal chamber.
- Optimum heat dissipation due to integrated pumping device available for increased efficiency in circulation and optimized seat design.
- Cartridge unit factory assembled for easy.
- Can operate under high sliding velocities and medium pressures.



API SPEC Q1. ISO 9001:2015. ISO 14001:2015. ISO 45001:2018. EU 1935:2004. ATEX - 2014/ 34/EU. REACH & RoHS. PED-CE. GMP



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