

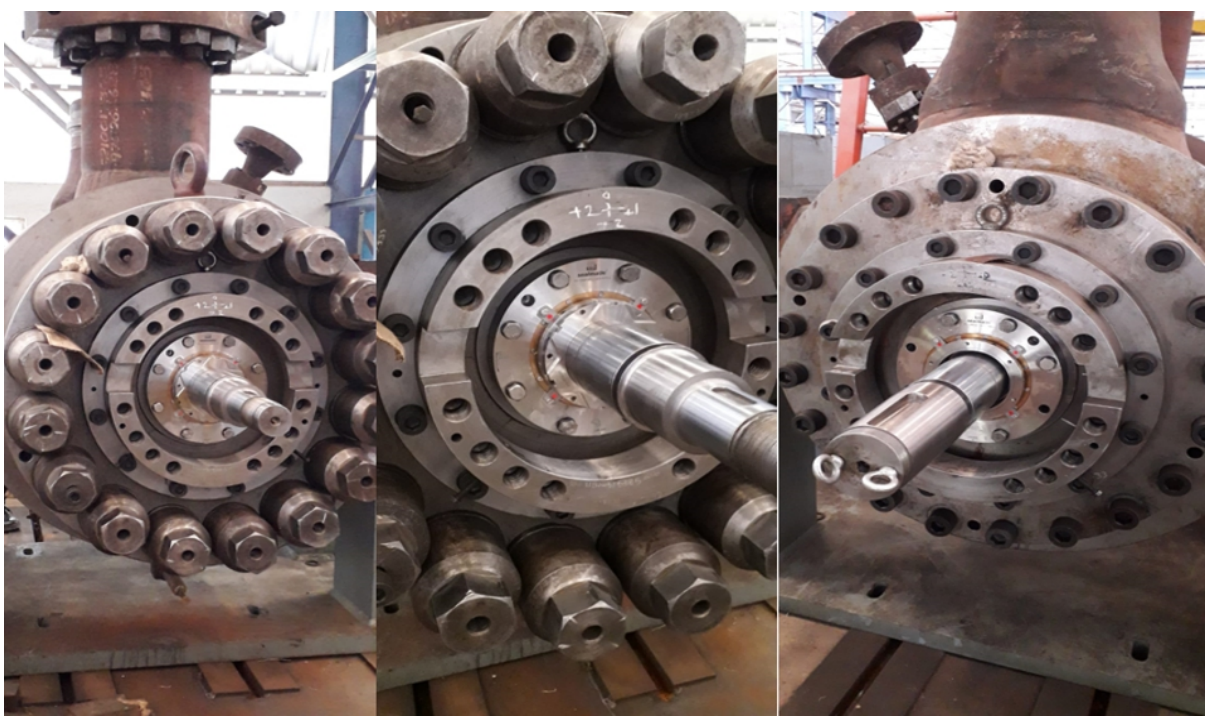


## Sealmatic Successfully Installs Type SBP Single Mechanical Seal For 660 MW Thermal Power Plant

Supercritical thermal power plants are a type of coal-fired power plant employed with more modern designs. They differ from traditional coal power plants because the water running through it works as a supercritical fluid, hence it is neither a liquid or a gas. This occurs when water reaches its critical point under high pressures and temperatures, specifically at 22 MPa and 374oC

In a super critical thermal power plant, mechanical seals for Boiler Feed Water Pump are one of the most critical equipment employed. With newer technologies, the increase 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								sealmatic®
Sr No	Seal Type & Size	Speed (RPM)	API Plans	Media	Temperature (°C)	Stuffing Box Pressure (kg/cm <sup>2</sup> )	Suction Pressure (kg/cm <sup>2</sup> )	Specific Gravity
1	91-SBPIA1/183-G911 (DE)	6300	23,61	Boiler Feed Water	215°C	14.78 kg/cm <sup>2</sup>	28.76 kg/cm <sup>2</sup>	0.877
	91-SBPIA1/183-G912 (NDE)							

Sealmatic is pleased to announced that it has successfully delivered type SBP single mechanical seal in Boiler Feed Water 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.

### Sealmatic Type SBP Mechanical Seal For BFW Pump

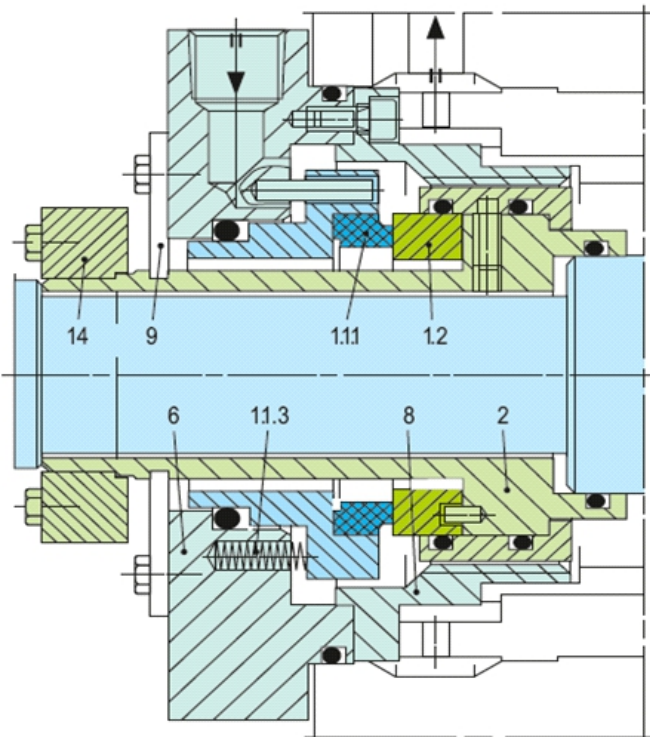
Type SBF is a balanced mechanical seal and independent of direction of rotation, it provides robust construction with the shrink-fitted seal face, and employed with the pumping screw.

#### 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.



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