

Sealmatic Successfully Installs Its Type SBP Single Mechanical Seal (DE & NDE) For Boiler Feed Pump In A Super Critical Thermal Power Plant (660 MW)

Super Critical thermal power plants (660 MW) operate under extreme conditions, with boiler feed pumps handling high temperatures and pressures. Mechanical seals are one of the vital components in these pumps, preventing leakage while ensuring efficient performance. With advancements in technology, increasing capacities of power generation equipment and higher demands for operational efficiency, mechanical seals have undergone significant improvements.

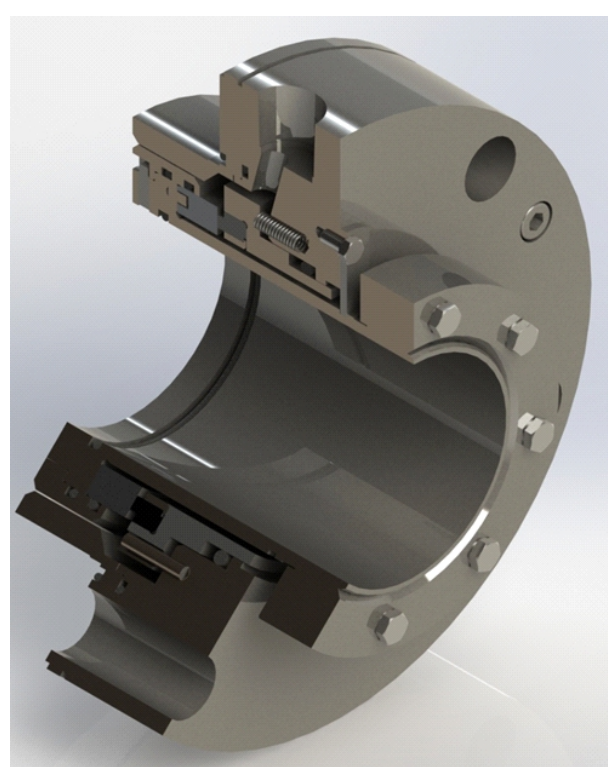
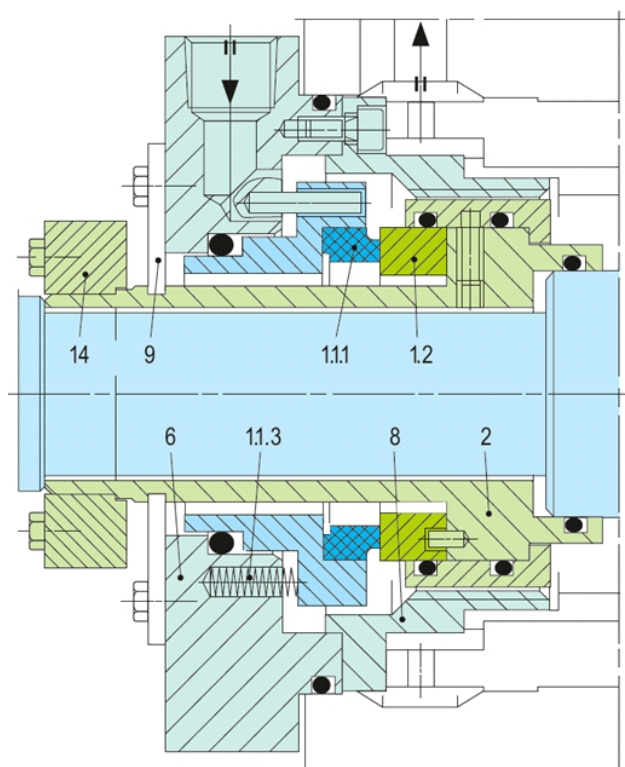
Sealing systems featuring maximum operational reliability, convenient maintenance and low leakage rates with necessary environmental protective measures are standard requirements in modern power stations. The product range includes mechanical seals and supply systems for auxiliary and secondary pumps, boiler circulation pumps and feedwater pumps as well as mechanical seals and carbon floating ring seals for turbines, compressors and fans.

Operating Parameters Of Type SBP Single Mechanical Seals								 sealmatic®
Sr. No.	Mechanical Seal Type	RPM	Temperature (°C)	Media	Stuffing Box Pressure (kg/cm ²)	Suction Pressure (kg/cm ²)	API Plans	Specific Gravity
1	91-SBP1A1/183-G917 R1 (DE)	6300	215°C	DM Water	16 kg/cm ²	28.8 kg/cm ²	23, 61	0.878
2	91-SBP1A1/183-G918 R1 (NDE)	6300	215°C	DM Water	16 kg/cm ²	28.8 kg/cm ²	23, 61	0.878

Sealmatic is pleased to announce that it has successfully installed its type SBP single mechanical seal for a boiler feed pump in a super critical thermal power plant (660 MW), in order to meet the demanding operating conditions and stringent requirements as mentioned above, thus bringing consistent and cost effective sealing method with a view to achieve highest safety standards.

Sealmatic Type SBF Mechanical Seal For Boiler Feed Water Pump

Type SBP is a balanced single cartridge mechanical seal and independent of direction of rotation, it provides robust construction with the shrink fitted seal face and is designed with integrated pumping device for increased efficiency in circulation.



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 installation, which reduces downtime
- Trouble-free long-term operation due to heavy duty single seat design with bandage
- Can operate under high sliding velocities and medium pressures

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

10th June 2025