


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

Super Critical Thermal Power Plant operates under some of the most demanding conditions, where boiler feed water pumps are required to perform reliably at extremely high temperatures and pressures. Mechanical seals play a pivotal role in these pumps by preventing fluid leakage, maintaining system integrity, and ensuring uninterrupted and efficient operation. As power generation technologies continue to evolve, with increasing unit capacities and a greater emphasis on efficiency and sustainability, mechanical seal technologies have advanced significantly to meet these growing demands.

Modern power stations require sealing solutions that offer exceptional operational reliability, ease of maintenance, and minimal leakage while complying with stringent environmental and safety standards. Today's sealing systems are engineered to deliver long service life, superior performance and enhanced equipment protection, even under the most challenging operating environments.

The comprehensive range of mechanical sealing solutions includes mechanical seals and support systems for auxiliary and secondary pumps, boiler circulation pumps and boiler feed water pumps. In addition, specialized mechanical seals and carbon floating ring seals are widely employed in turbines, compressors and fans, ensuring optimum performance, improved equipment availability, and enhanced operational efficiency across the power generation cycle.

Operating Parameters Of Type SBP Single Mechanical Seals									
Sr. No.	Mechanical Seal Type	Model	RPM	Temperature (°C)	Media	Stuffing Box Pressure (kg/cm ²)	Suction Pressure (kg/cm ²)	API Plans	Specific Gravity
1	91-SBPIA2/183-G913 (DE)	MDG 405	6300	215°C	Boiler Feed	6.54 kg/cm ²	6.54 kg/cm ²	23, 61	0.882
2	91-SBPIA2/183-G914 (NDE)	MDG 405	6300	215°C	Boiler Feed	6.54 kg/cm ²	6.54 kg/cm ²	23, 61	0.882

Sealmatic is pleased to announce that it has successfully installed its type SBP single mechanical seal for a boiler feed water pump in a Super Critical Thermal Power Plant (660MW), 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 SBP Mechanical Seal For Boiler Feed Water Pump

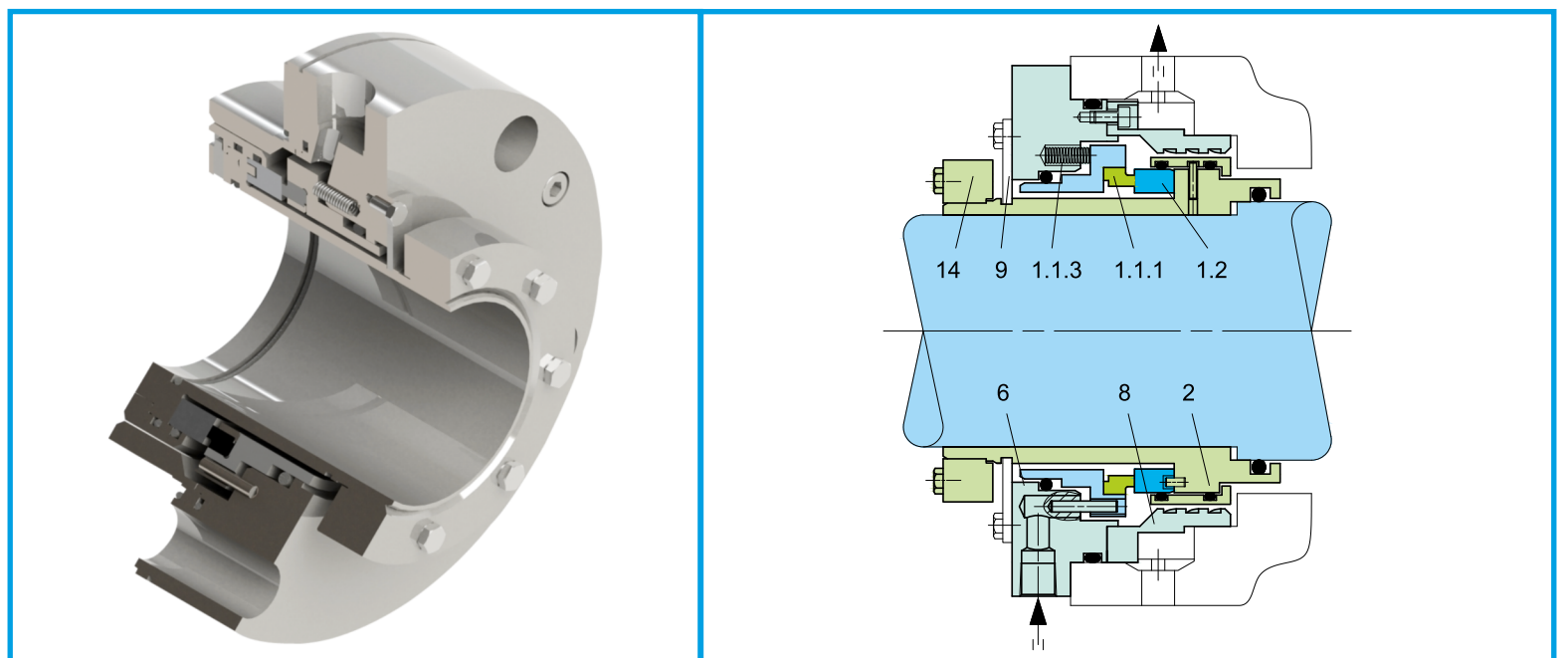
Type SBP is a balanced single cartridge mechanical seal and independent of direction of rotation, it provides robust construction with the shrink fitted seal face and is designed with integrated pumping device for increased efficiency in circulation.

Technical Features Of Type SBP Single Mechanical Seals

- 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



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