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Sealmatic Delivers Type SBV Mechanical Seal For Gas-Based Thermal Power Plant

A gas-based thermal power plant, also known as a gas-fired power plant or gas power station, operates on the principle of thermoelectric generation, where the combustion of fuel is employed to produce high-pressure and high-temperature gases. The gas-based thermal power plants offer several advantages, such as high efficiency, quick startup capabilities, more flexibility, and allowing easier integration with renewable energy sources.

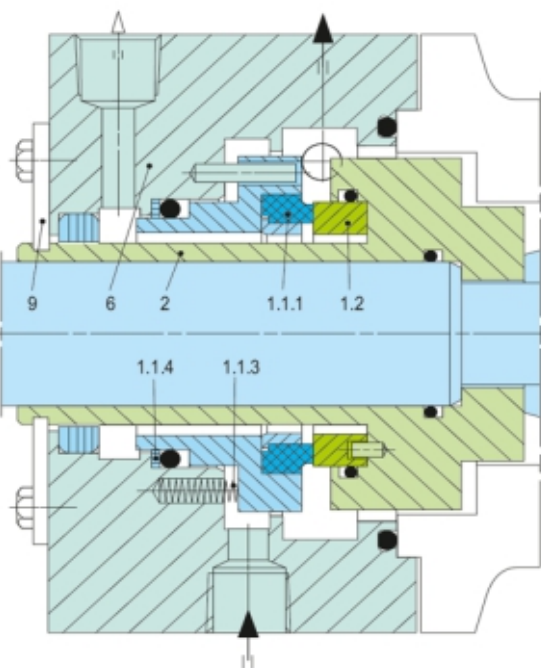
Mechanical seals employed in gas-based thermal power plant helps to prevent the escape of gases or liquids, thus; ensuring efficient and safe operation of the equipment. Moreover, it helps to maintain the integrity of rotating equipment by preventing the leakage of fluids or gases. Sealing systems featuring maximum operational reliability, convenient maintenance and low leakage rates with necessary environmental protective measures are standard requirements in modern power stations. It is always essential to choose sealing system that can withstand the demanding conditions of the power plant environment and provide long-term, leak-free performance to ensure the safe and efficient operation of the plant.

Operating Parameters Of Type SBV Single Mechanical Seal For Gas-Based Thermal Power Plant							
Sr. No.	Seal Type	Equipment	Media	Temperature(°C)	Stuffing Box Pressure (kg/cm ²)	Discharge Pressure (kg/cm ²)	API Plan
1	91-SBV/70-G911	High Pressure Boiler Circulation Pump	Hot Water	308°C	48.5 kg/cm ² (approx.)	50 kg/cm ²	02, 23 & 61

Sealmatic is pleased to announce that it has successfully delivered mechanical seal type SBV for high pressure boiler circulation 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 SBV Single Mechanical Seal For High Pressure Boiler Circulation Pump

Type SBV is a balanced and cartridge mechanical seal and independent direction of rotation, it provides heavy duty design of solid stationary seat, it can also accommodate shaft deflections due to stationary design and can operate under high sliding velocities and high pressures.



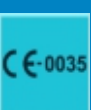
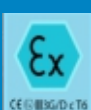
Performance Capabilities

- Sizes: d1* = Upto 250 mm (Upto 10.000")
- Pressure: p1 = 150 bar (2,175 PSI)
- Temperature: t = 300 °C (572 °F)
- Speed = 60 m/s (197 ft/s)
- Permissible axial movement: ± 3 mm

Typical Industrial Applications

- Accommodates shaft deflections due to stationary design
- Can be designed for individual pump application with corresponding connection parts to be adopted 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 high 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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