Sealmatic Successfully Installs & Commissions Type SBV (90 kg/cm2) High – Pressure Mechanical Seals Installed On Nuovo Pignone Booster Pumps In A Major Pipeline Project

Mumbai – June 29th, 2024 – Sealmatic India Ltd (BSE listed: 543782), a prominent player in mechanical sealing technology, has successfully installed and commissioned type SBV high-pressure mechanical seals on booster pump make of Nuovo Pignone for a major pipeline project.

Pipeline systems are the lifelines of modern process industries, transporting critical resources such as crude oil, natural gas and refined products over vast distances. For this particular project, the pipeline system is covering a distance of approx. **1054 KMs**. At the heart of these crucial systems are the **high-pressure booster pumps (Nuovo Pignone),** which ensures the steady and efficient flow of the said materials through the pipeline. Nuovo Pignone, a renowned division of Baker Hughes, a leading manufacturer of such booster pumps globally. Booster pumps are designed to maintain the high pressures within pipeline systems, ensuring that the transported fluids move efficiently from one location to another, even over long distances and through varying terrains.

A key component that ensures the reliability and efficiency of these booster pumps is the high-pressure mechanical seal which are critical for preventing leakage and maintaining operational integrity.

Sealmatic type SBV high-pressure mechanical seals, installed on Nuovo Pignone booster pumps, are designed to withstand the demanding conditions of pipeline applications.

The performance of Sealmatic type SBV high-pressure mechanical seals in these booster pumps is a result of careful engineering and material selection. The mechanical seals are designed to operate under pressures exceeding 100 bar (1500 psi) and temperatures ranging from -40°C to 200°C, ensuring their suitability for the harsh environments often encountered in pipeline systems. The mechanical seals are designed and manufactured as per API 682 standards, considering the following mentioned operating parameters in order to provide consistent performance over extended periods, even under the most challenging conditions.

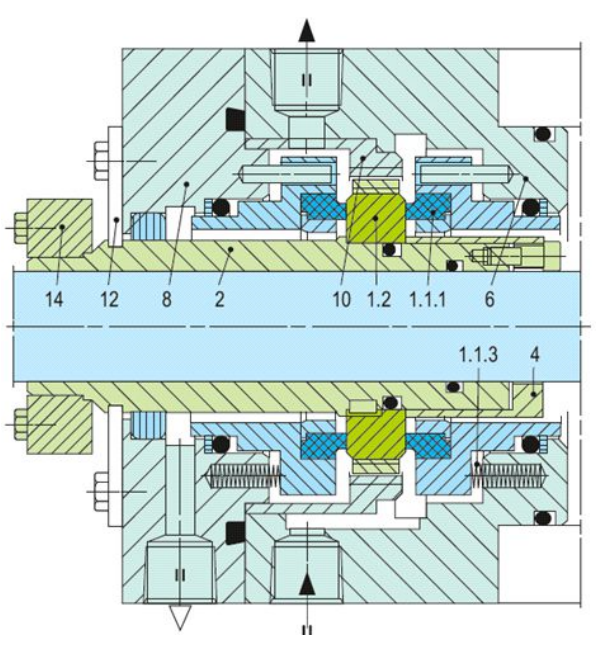
Operating Parameters Of Type SBV High Pressure Mechanical Seal

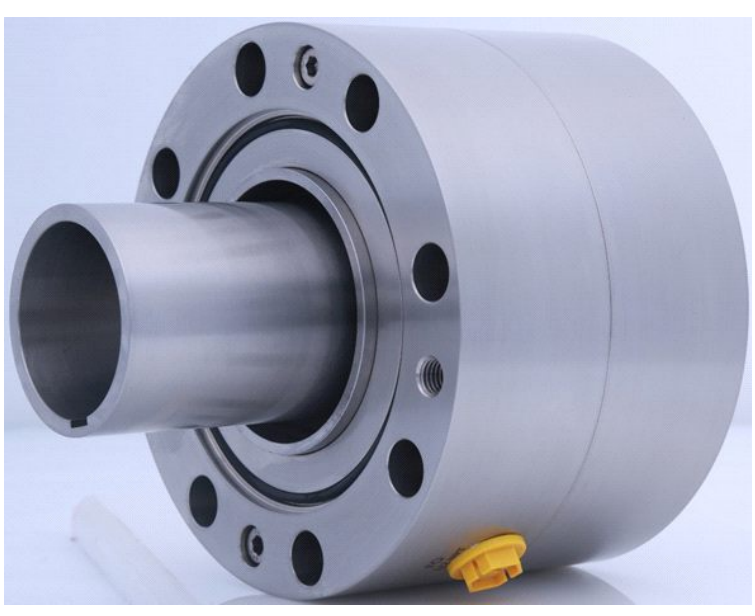
Sr No	RPM	Media	Temp (°C)	API Plan	Stuffing Box Pressure (kg/cm²)	Discharge Pressure (kg/cm²)	Configuration	Specific Gravity
1	3450	HSD/ULSHSD/MS/ULMS/SKO	45°C	31,52,61	63.5 kg/cm²	84 kg/cm²	2CW – CW	0.87
2	3450	HSD/ULSHSD/MS/ULMS/SKO	45°C	31,52,61	62 kg/cm²	84 kg/cm²	2CW – CW	0.87
3	2970	MS, ULMS, SKO,HSD, ULHSD	45°C	31,52,61	18 kg/cm²	92 kg/cm²	2CW – CW	0.87
4	2970	MS, ULMS, SKO,HSD, ULHSD	45°C	31,52,61	18 kg/cm²	92 kg/cm²	2CW – CW	0.87
5	2970	MS, ULMS, SKO,HSD, ULHSD	45°C	31,52,61	41 kg/cm²	91 kg/cm²	2CW – CW	0.87
6	2970	MS, ULMS, SKO,HSD, ULHSD	45°C	31,52,61	41 kg/cm²	91 kg/cm²	2CW – CW	0.87
7	3450	HSD/ULSHSD/MS/ULMS/SKO	45°C	31,52,61	59.5 kg/cm²	90 kg/cm²	2CW – CW	0.87
8	3450	HSD/ULSHSD/MS/ULMS/SKO	45°C	31,52,61	58 kg/cm²	90 kg/cm²	2CW – CW	0.87
9	3450	HSD/ULSHSD/MS/ULMS/SKO	45°C	31,52,61	69.5 kg/cm²	91 kg/cm²	2CW – CW	0.87
10	3450	HSD/ULSHSD/MS/ULMS/SKO	45°C	31,52,61	68 kg/cm²	91 kg/cm²	2CW – CW	0.87
11	3450	HSD/ULSHSD/MS/ULMS/SKO	45°C	31,52,61	67.5 kg/cm²	91 kg/cm²	2CW – CW	0.87
12	3450	HSD/ULSHSD/MS/ULMS/SKO	45°C	31,52,61	66 kg/cm²	91 kg/cm²	2CW – CW	0.87

The robust construction and advanced design features ensure that it can handle the high pressures and temperatures typical of pipeline applications. Regular maintenance and monitoring are essential to ensure its continued performance, making Sealmatic type SBV high-pressure mechanical seal as an essential component on Nuovo Pignone booster pumps.

Sealmatic Type SBV High-Pressure Mechanical Seal

Type SBV mechanical seal is especially design for high-pressures and temperatures. It is a dual seal configuration and a balanced design. The mechanical seal is designed with the integrated pumping device in order to increase the efficiency in circulation. Type SBV can also operate under high sliding velocities.





Performance Capabilities

- Sizes: d1* = Upto 250 mm (Upto 10.000'')
- Pressure: p1 = 150 bar (2,175 PSI)
- Temperature: t = 200 °C (392 °F)
- Speed = 60 m/s (197 ft/s)

Technical Features

- 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 down-time
- Trouble-free long-term operation due to heavy duty single seat design with bandage
- Can be adopted for use in compliance with API 682, type ES
- Versatile application for various kinds of heavy-duty applications

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