



Sealmatic Successfully Delivers Metal Bellows Type UFL650 – D API 682 4th Edition Category 2 & 3, Seal type C (Stationary), Configuration 3CW-FF (Contacting Wet–Face-to -Face) With Plan 53B To IOCL Barauni

The processing of crude oil in refineries is a complex and multi-stage process in which crude oil is transformed into refined, high-quality end products or feed materials for petrochemical industry.

Barauni Refinery which is located in the Begusarai District (Bihar state) of India, was built in collaboration with the Soviet Union and went on stream in July, 1964. The state-of-the-art eco-friendly technologies have enabled the refinery to produce environment- friendly green fuels complying with international standards.

The ministry of petroleum and natural gas established the technical advisory body, named as Oil Industry Safety Directorate (OISD), which formulates and implements safety standards for the oil industry. It has formed rules and safety guidelines for various facilities in refinery processes and mainly responsible for standardization, accidental analysis and evaluation of safety performance.

We are extremely pleased to mention that under the OISD norms, Sealmatic has successfully executed an order for various pumps in the AVU plant at IOCL Barauni to meet demanding operating conditions as mentioned below, thus bringing areas of design, operation and maintenance with a view to achieve the highest safety standards in a cost-effective manner.

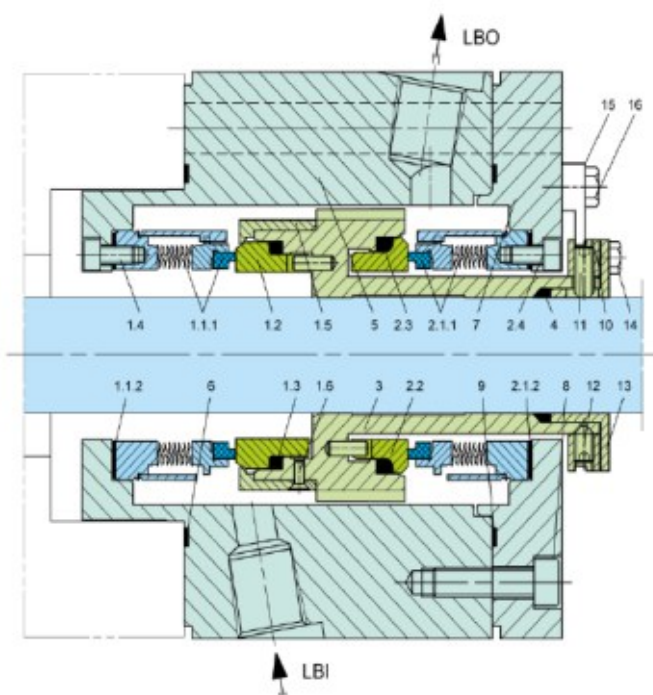
Sealmatic's comprehensive range of API-compliant quality mechanical seals and supply systems offers technically competent, practical solutions that provide significantly greater safety and process reliability in refining technology, petrochemical, oil & gas and chemical industries.

API 682 4th Edition Mechanical Seals OISD Project IOCL Barauni



Sr No	Plant	Seal Drawing No.	Speed (RPM)	API Plans	Media	Temperature (°C)	Viscosity	Specific Gravity	Suction Pressure (kg/cm ² g)	Discharge Pressure (kg/cm ² g)	Stuffing Box Pressure (kg/cm ² g)	Seal Type & Code
1	AVU-3	91-UFL650-D/115-G911	1485	02, 53B	Reduced Crude Oil	304.3 °C	1.2 cP	0.78	1.7 kg/cm ² g	14.4 kg/cm ² g	8.05 kg/cm ² g	API 23C-PRO/N-100-02/53B
2	AVU-3	91-UFL650-D/115-G912	1485	02, 53B	Reduced Crude Oil	304.3 °C	1.2 cP	0.78	1.7 kg/cm ² g	14.4 kg/cm ² g	1.7 kg/cm ² g	API 23C-PRO/N-100-02/53B
3	AVU-3	91-UFL650-D/90-G911	2980	02, 53B	K-101 BOTTOM	212.5 °C	0.91 cP	0.794	2.3 kg/cm ² g	18.8 kg/cm ² g	11.4 kg/cm ² g	API 23C-PRO/N-080-02/53B
4	AVU-3	91-UFL650-D/90-G912	2980	02, 53B	K-101 BOTTOM	212.5 °C	0.91 cP	0.749	2.3 kg/cm ² g	18.8 kg/cm ² g	2.3 kg/cm ² g	API 23C-PRO/N-080-02/53B

Type UFL 650 -D is a balanced and dual mechanical seal, of category 2 and 3, seal type C with a configuration of 3CW-FF (Contacting Wet – Face to Face).



Performance Capabilities

- Shaft diameter: d1 = 20 ... 110 mm (0.79" ... 4.33")
- p = vacuum ... 20 bar (... 290 PSI)
- Temperature: t = -130 °C ... +400 °C (-202 °F ... +752 °F)
- Sliding velocity: vg ... 50 m/s (... 164 ft/s)

June 12th 2021

