



Sealmatic Successfully Installs Type UFL650F Double Metal Bellow Seal For High Temperature Application At IOCL Haldia

The processing of crude oil in refinery 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. High temperature applications can be found in nearly every industry, making an understanding of how to handle them in critical manner. Mechanical seals designed and installed in high temperature application must withstand highly delicate media. The seal materials need to be compatible with the liquid and capable of withstanding the maximum temperature generated from the application.

Operating Parameters of API 682 Mechanical Seal Type UFL650F-D Installed at IOCL Haldia Refinery											sealmatic [®]
Sr No.	Plant	Seal Type	API Plan	Media	RPM	Temperature °C	Stuffing Box Pressure (kg/cm ²)	Suction Pressure (kg/cm ²)	Discharge Pressure (kg/cm ²)	Viscosity (cSt)	API Code
1	VDU	91-UFL650F-D/70-G914	02, 53B	Light Oil (CR+IR)	2980	262°C	4-8 kg/cm ²	3-7 kg/cm ²	11.6 kg/cm ²	1.08	23C-PRO/N-052-02/53B

We are extremely pleased to announce that under the norms of well renowned body named as OISD (Oil Industry Safety Directorate), Sealmatic has successfully installed API complaint metal bellow double mechanical seal type UFL650F for high temperature application at IOCL Haldia Refinery, to meet the demanding operating conditions as mentioned above, thus bringing areas of design, operation and maintenance with a view to achieve the highest safety standards in a cost-effective manner.

Sealmatic Type UFL650F Double Mechanical Seal

Type UFL 650F-D is a balanced mechanical seal and independent of direction of rotation, mainly suitable for high temperature application. Therefore, having the configuration of 3CW-FF (Contacting Wet – Face-to-Face). The bellows are specifically design to minimize the variation in face load due to shaft expansion or face wear, and also efficiently ensure self-cleaning.

Performance Capabilities

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

