

sealmatic®

Sealmatic Delivers UFL650 Seal For High Temperature Pumps Guinard Pump At HPCL Refinery

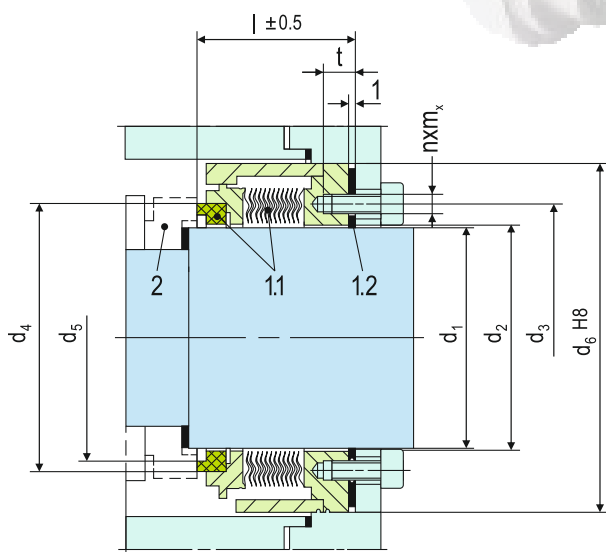
Crude oil refineries employ best of the engineers and safety professionals to ensure that products are produced efficiently and safely. Refineries process millions of barrels of crude oil a day. Refinery configurations vary, but refineries are undeniably some of the world's most sophisticated processing industrial operation.

Refinery pumps transport petroleum and its derived products in refineries, petrochemical plants and the chemical industry. They are used in temperature ranges from -120 °C to +450 °C at pressures of about 65 bar.

As the fluids handled are often highly volatile and flammable, the mechanical seals in contact with the fluid handled have to be of the most efficient and reliable design.

Mechanical seals in a refinery depending on the operating conditions, particularly with regard to the suction characteristics, can also be designed as horizontal or vertical can-type multistage pumps or as horizontal double-suction pumps in between-bearings design. Mechanical seals have to comply with specific design codes, such as the well-known codes of the American Petroleum Institute (API 682) with great emphasis is placed on a sturdy and heavy construction.

High temperature applications can be found in nearly every industry, making an understanding of how to handle them is critical. Sealing liquid containment is always a concern, but with temperatures as high as 750°F (400°C), it becomes even more critical. Sealmatic UFL 650 is a solution to such high temperature application, with its installation at HPCL refinery.



Performance Capabilities

Sizes: d_1 = Upto 100 mm (Upto 4.000")

Externally pressurized: p_1 = 25 bar (363 PSI),
(higher pressure possible, please inquire)

Internally pressurized:

p_1 < 120 °C (248 °F) 10 bar (145 PSI),

p_1 < 220 °C (428 °F) 5 bar (72 PSI),

p_1 < 400 °C (752 °F) 3 bar (44 PSI)

Stationary seat lock necessary.

Temperature: $t = -20^{\circ}\text{C} \dots +400^{\circ}\text{C} (-4^{\circ}\text{F} \dots +752^{\circ}\text{F})$

Speed: = 50 m/s (165 ft/s)

API SPEC Q1 . API . ISO 9001:2015 . EU 1935:2004 . ATEX - 2014/34/EU . ISO 9001:2015 . ISO 14001:2015 . BS-OHSAS 18001:2007 . PED-CE

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