



sealmatic®

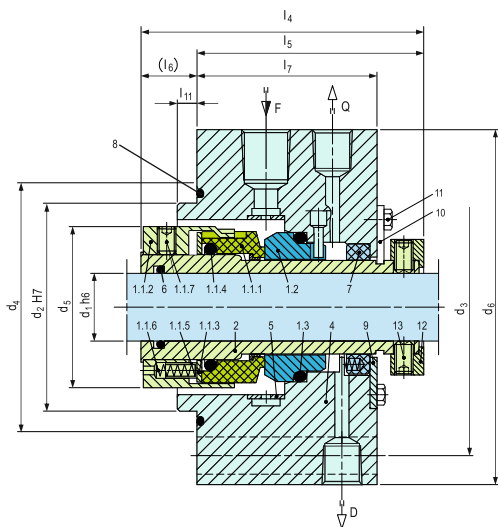
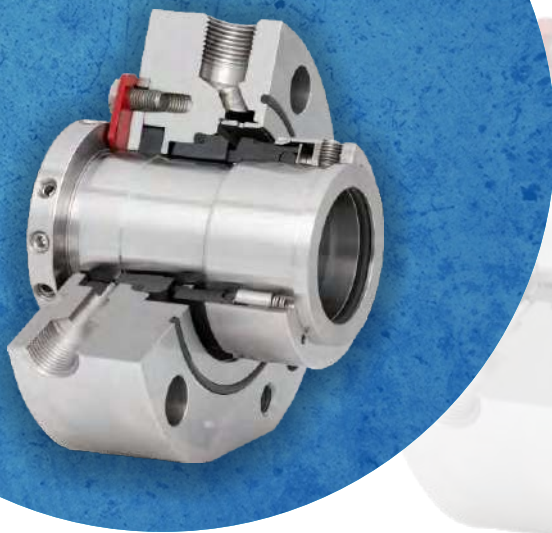
Sealmatic Delivers API 682 Mechanical Seal For 90% Nitric Acid

Sealmatic mechanical seals have been setting the standards for concentrated nitric acid pumping at GNFC for their Sulzer pump.

Traditional sealing technologies used in nitric acid require constant thermal moderation of the primary seal or journal bearing surfaces in order to operate satisfactorily. Once the moderating liquid is lost or evacuated, the source of lubrication and ability to remove heat from these sliding faces is also lost, and failure occurs – usually within minutes.

The Sealmatic B750VN installed at GNFC on a Sulzer pump is in operation and the service life experienced by the customer is satisfactory.

Sealing solutions for critical media such as acids, ammonia, chlorine, alkalis etc are required in large volumes as the basic chemicals for fertilizers and cleaning agents, for example. Production is a continuous process, often in an interconnected system. Pumps and compressors are the predominant machines for these processes. The sealing technology requirements for inorganic chemicals are greatly determined by the properties of the process media. A high solids content, a strongly corrosive effect, or a tendency to crystallize requires specific structural designs and measures to optimize the mode of operation, in addition to resistant materials. Sealmatic has many of experience with these applications and sensitive media and provides mechanical seals, which are adapted to the individual operating conditions.



Performance Capabilities

- Sizes: d = Upto 110 mm (Upto 4.250")*
- Pressure: $p_1 = 40$ bar (580 PSI)
- Temperature: $t = -40$ °C...+220 °C (-40 °F...+428 °F)
- Speed = 23 m/s (75 ft/s)
- Permissible axial movement: $\pm 2.0 \dots 4.0$ mm depending on diameter and installation situation
- * Other sizes on request

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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