

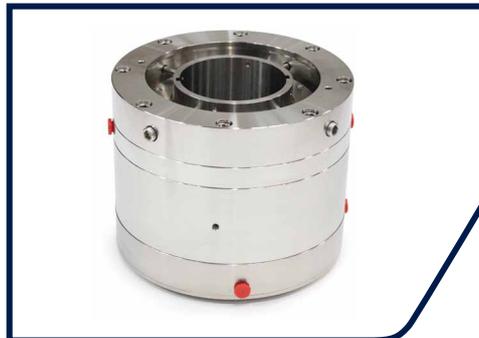


## Reliable solution for high pressure, high temperature agitator application

A major chemical company was experiencing reliability issues with a mechanical seal on a top entry agitator vessel.

The agitator vessel was operating at high temperature (343°C/650°F) and at high pressure (30 Bar/435 psi). The custom competitor's seal was supported by an API Plan 53B seal support system and had been designed for a 37.5 bar/ 544 psi seal chamber pressure. However the seal kept losing its barrier fluid which would lead to the seal becoming blocked with Santo wax and stopping production. The failures were so frequent that a spare seal could not be repaired quickly enough to keep the plant operational. The mean time between failure (MTBF) was just 2 months. Dissatisfied with the situation the customer approached AESSEAL® for an alternative.

AESSEAL® recommended the HPVD seal, this high pressure dual seal is designed to withstand seal chamber pressures of up to 50 bar/725 psi. The new seal was supplied and installed (February 2020) within just 8 weeks of ordering. During the installation the AESSEAL® installation engineer worked with the customer to address a misalignment of the shaft. After 2 years of operation the seal continues to perform without issue saving the customer over £110,000 on seals alone and much more in lost production.



**'Improved MTBF and more than £110,000 savings'**

Industry:	Chemical
Product:	HPVD
Application:	Agitator
MTBF Increase:	1100% (and counting)
Savings:	>£110,000
Reference N.O:	CS0044

