

CASE STUDY

Sealless Pump for Challenging Fluids

A petrochemical company in Germany asked Sulzer to improve the reliability of a single stage radial pump HSZ 52-321 (OH1 design) and replace their double mechanical seal and complex piping plan.

The Sulzer difference

Sulzer's know-how in retrofitting pumps, regardless of the original equipment manufacturer, is a huge advantage for customers. Our engineers are specialized in optimizing pumps without having to change their footprint. Thanks to this retrofit, the customer is able to benefit from the economic advantage as well as a lower meantime between repairs.

The challenge

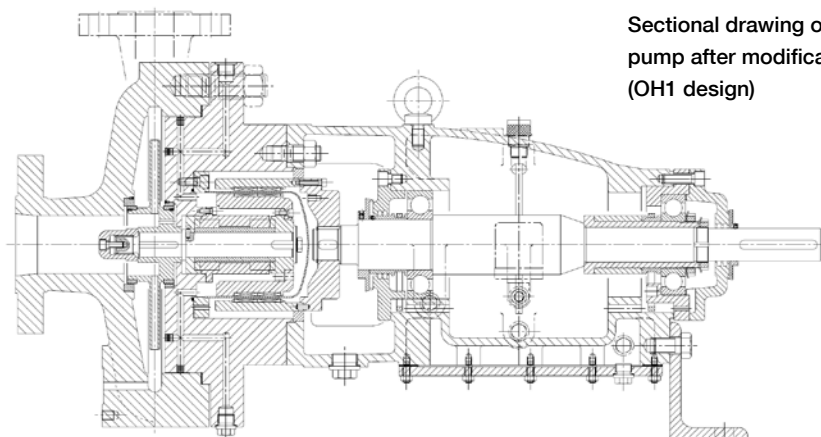
The customer wanted the modifications at his site to be kept to a minimum. Only small modification of the base plate was required for installation of the retrofitted pump. The piping and motor remained unchanged. For reasons of cost-effectiveness the main parts of the pump like delivery casing, impeller and bearing bracket were reused.

The solution

Sulzer provided a complete range of services including engineering, dismantling, modification and installation of the pump from one source.

Customer benefit

- Modification of existing pumps, reuse of delivery casing and impeller
- Reduction of maintenance costs
- Wear free magnetic coupling
- ATEX certification possible
- Approved acc. Industrial Emissions Directive (IED) 2010/75/EU (German regulation: "TA-Luft")
- Suitable for changing suction pressure
- Use of polyether ether ketone (PEEK) as an option for the reduction of magnetic losses



Sectional drawing of the pump after modification (OH1 design)

Contact

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Applicable markets

O&G, HPI

Applicable products

Single or multi stage radial pumps (horizontal/vertical): OH1, BB4, BB5, VS6