

CASE STUDY

Avoid Damage and Pump Failure Through Automatic Venting System

The Sulzer difference

As one of Sulzer's core business segments, the oil and gas industry runs sophisticated production and pipeline transportation processes. These require reliable pumping solutions that meet stringent industry specifications. Our continuous investment in state-of-the-art design tools allows us to quickly produce special one-off pump solutions with the confidence that they will perform to the desired technical parameters when put into service.

The challenge

The liquid gas pumps in a gas transportation station had a manual venting valve. During startup, the pumps needed to be vented. The consequence of not following the venting procedure was dry running of the balance device and above sleeve bearing.

The solution

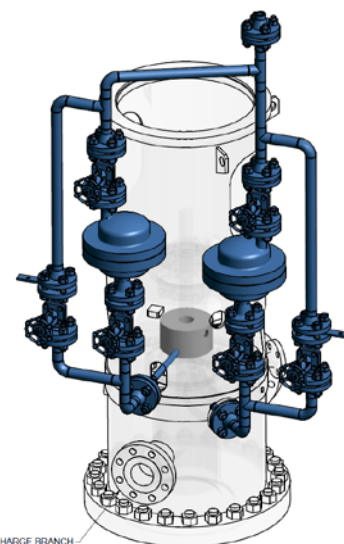
The Sulzer engineering department developed a solution with self-venting valves for automatic venting, to avoid the reason for pump failure and reduce the maintenance costs. The solution developed is reliable and has been working for many years without failure.

Customer benefit

- Elimination of cause of failure and reduction of maintenance costs.
- No field service personnel required in areas vulnerable to explosion.
- Automatic pump venting can be installed in the plant without major changes on site.

Product data

Medium: hydrocarbon condensate C5+
 Temperature: 10 – 55°C
 Density: 717 kg/m³
 Viscosity: 0.123 cP
 Pump type: TTMC 40 – 160 / 3
 Capacity: 30 m³/h
 Head: 74 m



Automatic venting (mechanical seal and suction area) system for vertical pump

Contact

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Applicable markets

O&G, HPI

Applicable products

Vertical multistage pump; VS6