Avoid Damage and Pump Failure Through Automatic Venting System

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

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Applicable markets
O&G, HPI

Applicable products
Vertical multistage pump; VS6