

Application

Gas: Gas Mix (30 % HCl; 70 % Fluorocarbons)
Suction Pressure: 0.05 barg / 0.73 psig
Discharge Pressure: 17.30 barg / 252 psig
Suction Temperature: 35 °C / 95 °F
Discharge Temperature: 140 °C / 284 °F

Failure Mode

Swelling of packing internals. Temperatures increase during operation.

Root Cause

PTFE-compound is not suitable when fluorinated gases are compressed. The PTFE parts were chemically solved by process gas.

Solution

Material change from PTFE compound SK301 to PEEK SK901. Such the operating temperatures could be dropped and the running time of the internals could be increased significantly.



Swollen sealing rings

FIELD CASE

Packing Internals

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