



Pressure Measurement in Oil Processing



Application:

Flange type chemical seal with high-soft membrane with pressure and differential pressure transmitter, using the original cap flanges

for refineries



The problem:

In former plants, it had been necessary to install an additional trace heating for the capillary line and the chemical seal to obtain a functioning and accurate measurement. Furthermore, the

original cap flanges had to be replaced by volume-reduced cap flanges that were produced in one-off production.

Application:

Flange type chemical seal with high-soft membrane with pressure and differential pressure transmitter, using the original cap flanges

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Our solution:

Compared to the sinus membrane, our high-soft membrane with its performance can compensate the additional large oil volume in the cap flange (9 cm³ per side) temperature-wise, with the result that no additional error occurs that is caused by the ambient temperatures -28/+70 °C (-18.4/+158 °F). This error would have to be viewed more critically at an ambient temperature of +70 °C (+158 °F) than +400 °C (+752 °F) (medium temperature) at the

chemical seal, due to the large oil volume in the cap flange. In combination with our special oil $[-40/+400 \ ^{\circ}C \ (-40/+752 \ ^{\circ}F)]$, an operation is made possible without the trace heating, which is usually required. The trace heating can also be omitted at a process connection of PN 50, which would also lead to further cost reductions.

Our advantages at a glance:

- No need of trace heating
- No need of volume-reduced cap flanges that are produced in one-off production
- No additional errors



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