

Multiple Manual Sampling System Production Optimisation

Client:

Aker Solutions

Location:

Saudi Arabia

Equipment:

Manual sampling system, working pressure 8-50 bar

Project Background

Khafji Operations is a development between Saudi Arabia and Kuwait with vast reserves of gas. The process package was awarded to Aker Solutions and they originally contacted our Norway office for a sampling system. Since the end destination was Middle East this enquiry was passed on to our Dubai office for bidding. Having local manufacturing and engineering expertise played a vital role in getting the system awarded.

Solution

The original proposal had individual sampling stations at respective sampling locations. This wasn't a cost effective solution to the client. In order to meet the budget expectations of the client, Proserv proposed to have a single sampling system with a collection of samples from multiple points. The system was designed to collect individual samples from different sample points, one at a time with no compromise on the quality of the sample. In addition the sample system had a purge valve, this valve was used to purge the sample lines prior to sampling to ensure that no residual samples were there in the system due to previous sampling activity.

Scope

Supply of manual sampling system for multiple sample point sampling. The system was designed to carry out sampling of multiple sample lines using a single control panel. The system was equipped with sample cooler to further regulate the temperature of the sample collected.

Conclusion

By offering a single panel for the collection of multiple samples, we not only proved by ourselves cost effective to client but also provided an Ingenious Simple solution to client.

Benefits

- Can be used to collect gas samples from more than 1 sample point
- Nace Compliance
- Ensures no release of hazardous substances without any risk to operator
- Heat exchanger to ensure the temperature of the sample is regulated
- Purging valve provided to purge the content of previous sample
- Cylinder can be easily disconnected from the system by mean of quick release

