



Hydrogen Compression in Refining, Petrochemical and Chemical Applications

by:

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Abstract:

With more stringent environmental legislation there is undoubtedly significant impact on the hydrogen balance in refineries. The need for ever-lower sulphur levels in both gasoline and diesel would mean an increase in process using hydrogen and the need for more high purity hydrogen.

Thus this gives rise to a need for oil free hydrogen gas compression for bottle-filling, pipelines, hydrogenation processes and other applications. The need for a simple and robust compressor design for long life, easy maintenance and the ability to cope with a flexible process condition are of great importance to the industries.

This paper reports from the BASF Petronas Chemicals (BPC) operations perspective the challenges encountered during the start-up, commissioning and optimization phases of our horizontal, 2-stage, high purity hydrogen gas reciprocating compressors.

Aim of the paper is to share the achievements through our continuous improvement on a journey towards excellence.