



Abstract

Session 34: Fundamentals

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Title

34-2: Universal Efficiency Definition for Reciprocating and Centrifugal Compressors

Summary

Reciprocating compressors and centrifugal compressors use different definition of compressor efficiency. This paper will provide guidelines for a true comparison, as well as a universal efficiency definition for both types of machines, based on the requirements the ultimate user is really interested in. Further, the impact of actual pipeline conditions on the change of efficiency at different loads, using different means of control, is evaluated.