

Title: Comparison of Moderate and Slow-Speed API-618 Reciprocating Compressor Designs for Downstream Applications

by
George Kopsick, Ariel Corporation, Mount Vernon, Ohio, USA

Abstract:

API Standard 618, Reciprocating Compressor for Petroleum, Chemical, and Gas Industry Services, is written to cover both moderate and slow-speed reciprocating compressors for critical service applications but does not define the attributes of these two alternatives. This article reviews the basic design of both type of compressors to each other and API-618. The different operating characteristics of both compressor designs is also compared to the technical requirements for reliable compressor operation.