



API Standard 617

Axial and Centrifugal Compressors and Expander-compressors

SEVENTH EDITION, NOVEMBER 2014 | SIX PARTS | 617-01 THROUGH 617-06

Covers the technical requirements for axial compressors, expander-compressors and integral geared process centrifugal compressors, and expander-compressors for use in the petroleum, chemical, and gas industries where they handle sour gas.

Part 1—General Requirements, contains information pertinent to all equipment covered by the other parts of this document.

Part 2—Axially-Loaded Centrifugal and Axial Compressors, specifies requirements for horizontally geared centrifugal and axial compressors, in addition to the general requirements specified in API 617, Part 1. These machines do not have gears integral with their shafts but can have external gears.

Part 3—Horizontally-Loaded Centrifugal Compressors, specifies integral geared centrifugal compressors in conjunction with API 617, Part 1.

Part 4—Expander-compressors, specifies requirements for expander-compressors, in addition to the general requirements specified in Part 1.

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Compressors Royce N. Brown, 2011-08-30 This practical reference provides in depth information required to understand and properly estimate compressor capabilities and to select the proper designs Engineers and students will gain a thorough understanding of compression principles equipment applications selection sizing installation and maintenance The many examples clearly illustrate key aspects to help readers understand the real world of compressor technology Compressors Selection and Sizing third edition is completely updated with new API standards Additions requested by readers include a new section on diaphragm compressors in the reciprocating compressors chapter and a new section on rotor dynamics stability in the chapter on diaphragm compressors The latest technology is presented in the areas of efficiency 3 D geometry electronics CAD and the use of plant computers The critical chapter on negotiating the purchase of a compressor now reflects current industry practices for preparing detailed specifications bid evaluations engineering reviews and installation A key chapter compares the reliability of various types of compressors Everything you need to select the right compressor for your specific application Practical information on compression principles equipment applications selection sizing installation and maintenance New sections on diaphragm compressors and an introduction to rotor dynamics stability *Forsthoffer's Proven Guidelines for Rotating Machinery Excellence* William E. Forsthoffer, 2021-12-03 Forsthoffer's Proven Guidelines for Rotating Machinery Excellence draws on Forsthoffer's 60 years of industry experience to get new operatives up to speed fast Each of the topics covered are selected based on hard won knowledge of where problems with rotating machinery originate This easy to use highly illustrated book is designed to elevate the competence of entry level personnel to enable them to immediately contribute to providing optimum rotating machinery reliability for their companies The first 3 chapters address practical personal rotating machinery awareness detail how to optimize this awareness to identify low hanging fruit safety and reliability improvement opportunities and how to define and implement a cost effective action plan The remaining chapters focus on the function of key components in each type of rotating machinery and how to monitor and correct their condition before failure The last chapter is an RCA Root Cause Analysis procedure chapter detailing effective Root Cause Identification before a Failure to prevent a costly failure and the need for a RCFA Real life examples are provided from the field of operation and maintenance of rotating machinery helping readers to implement effectively Includes important advice on monitoring approaches for different types of machines highlighting differences between working with pumps and compressors A chapter on Root Cause Identification features proven methods to help your organization to prevent machinery failures API 617 : Axial and centrifugal compressors and expander-compressors for petroleum, chemical and gas industry services API., 2002 Proceedings of the ... Turbomachinery Symposium ,1994 **Hydrocarbon Processing** ,1976-06

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