



# API Standard 617

## Axial and Centrifugal Compressors and Expander-compressors

SEVENTH EDITION, NOVEMBER 2011 | 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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resource for professionals responsible for purchasing servicing or operating compressors It describes the main features of over 300 petrochemical and refining schematics and associated process descriptions involving compressors and expanders in modern industry The organized presentation of this reference covers first the basics of compressors and what they are and then progresses to important operational and process issues It then explains the underlying principles operating modes selection issues and major hardware elements for compressors Topics include double acting positive displacement compressors rotary positive displacement compressors understanding centrifugal process gas compressors power transmission and advanced bearing technology centrifugal compressor performance gas processing and turbo expander applications and compressors typically found in petroleum refining and other petrochemical processes Suitable for plant operation personnel machinery engineering specialists process engineers as well as undergraduate students of this subject this book s special features include Flow schematics of modern process units and processes used in gas transport gas conditioning petrochemical manufacture and petroleum refining Listings of licensors for each process on the flow schematics Identification of each process flow schematic of compressors cryogenic and hot gas expanders at their respective locations Important overview of surge control estimating compressor performance applications for air separation and gas processing plants petroleum refinery issues and important criteria that govern compressor selection and application Placing hundreds of associated process flow schematics at the fingertips of professionals and students author and industry expert Heinz Bloch facilitates comprehension of the workings of various petrochemical oil refining and product upgrading processes that are served by compressors

**Vibration Engineering and Technology of Machinery** Jyoti K. Sinha, 2014-08-14 The VETOMAC X Conference covered a holistic plethora of relevant topics in vibration and engineering technology including condition monitoring machinery and structural dynamics rotor dynamics experimental techniques finite element model updating industrial case studies vibration control and energy harvesting and signal processing These proceedings contain not only all of the nearly one hundred peer reviewed presentations from authors representing more than twenty countries but also include six invited lectures from renowned experts Professor K Gupta Mr W Hahn Professor A W Lees Professor John Mottershead Professor J S Rao and Dr P Russhard This work is of interest to researchers and practitioners alike and is an essential book for most of libraries of higher academic institutes

**10th International Conference on Vibrations in Rotating Machinery** Institution of Mechanical Engineers, 2012-09-11 This book presents the papers from the 10th International Conference on Vibrations in Rotating Machinery This conference first held in 1976 has defined and redefined the state of the art in the many aspects of vibration encountered in rotating machinery Distinguished by an excellent mix of industrial and academic participation achieved these papers present the latest methods of theoretical experimental and computational rotordynamics alongside the current issues of concern in the further development of rotating machines Topics are aimed at propelling forward the standards of excellence in the design and operation of rotating machines Presents latest

methods of theoretical experimental and computational rotordynamics Covers current issues of concern in the further development of rotating machines

*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

**Proceedings of the ASME Process Industries Division, ... : Presented at the ... ASME Mechanical Engineering Congress and Exposition, ...** ,2004

**Vibrations in Rotating Machinery** IMechE (Institution of Mechanical Engineers),2004-10-22 This essential text contains the papers from the 8th international IMechE conference on Vibrations in Rotating Machinery held at the University of Wales Swansea in September 2004 The themes of the volume are new developments and industrial applications of current technology relevant to the vibration and noise of rotating machines and assemblies TOPICS INCLUDE Rotor balancing including active and automatic balancing Special rotating machines including micromachines Oil film bearings and dampers Active control methods for rotating machines Smart machine technology Dynamics of assembled rotors Component life predictions and life extension strategies The dynamics of geared systems Cracked rotors detection location ad prognosis Chaotic behaviour in machines Experimental methods and discoveries

**Proceedings** ,2004

**Publications, Programs & Services** American Petroleum Institute,2005

*Vibrations in Centrifugal Pumps* ,1990 A collection of IMechE seminar papers which present the latest views on observed damaging levels of synchronous and subsynchronous vibrations in centrifugal pumps the root causes of these vibrations and analytical methods by which such causes might be identified

[An Introduction to Machinery Reliability Assessment](#) Heinz P. Bloch,Fred K. Geitner,1994 Here is the ultimate reference for ascertaining the functionality and remaining life of industrial process equipment Packed with graphs figures photos and checklists this edition of [An Introduction to Machinery Reliability Assessment](#) is the most approachable and useful book on this topic This single volume contains dozens of assessment techniques based on probability and statistical analysis Theoretical and practical contexts are

given for the various methods which include failure mode and effect analysis risk and hazard assessment fault tree analysis Weibull analysis and field reliability assessment The second edition now contains expanded treatments of turbomachinery particularly centrifugal pumps Weibull analysis techniques and equipment safety checklists Most importantly it includes a new chapter focusing on mechanical structures and piping New appendixes on safety design checklists and installation reviews and an updated glossary enhance the book s utility and practical application making it a complete single source of machinery reliability assessment techniques

*Maximizing Machinery Uptime* Fred K. Geitner, Heinz P. Bloch, 2006-02-17

Explores reliability assessment techniques such as Failure Mode Effect Analysis and Fault Tree Analysis of commonly encountered rotating machinery This book draws upon real world examples to demonstrate that the application of these techniques provides a basis for equipment management uptime maximization and reduced maintenance costs

**Visión Tecnológica** ,1993 *ASME Technical Papers* ,2000 Notices of the American Mathematical Society American Mathematical Society,1980 **Paper** ,2000 **The Standard Periodical Directory** ,1993 International Commerce ,1967-04 *Standard Handbook for Mechanical Engineers* ,1996

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