

1. Record Nr.	UNINA9910820287003321
Titolo	AIChE equipment testing procedure : centrifugal compressors : a guide to performance evaluation and site testing analysis // American Institute of Chemical Engineers
Pubbl/distr/stampa	Hoboken, New Jersey : , : Wiley, , 2013 ©2013
ISBN	1-5231-0994-7 1-118-64086-1 1-118-64087-X 1-118-64252-X
Descrizione fisica	1 online resource (64 p.)
Disciplina	621.5/10287
Soggetti	Centrifugal compressors - Evaluation Centrifugal compressors - Testing Compressors - Evaluation Compressors - Testing
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Includes index.
Nota di contenuto	Cover; Title Page; Copyright Page; Table of Contents; 100.0 PURPOSE & SCOPE; 101.0 Purpose; 102.0 Scope; 200.0 DEFINITION AND DESCRIPTION OF TERMS; 300.0 TEST PLANNING; 301.0 General Guidance; 302.0 Communication; 400.0 INSTRUMENTS AND METHODS OF MEASUREMENT; 401.0 Minimum Instrumentation for Checking Compressor Performance; 402.0 The Ideal Beginning; 403.0 Schematic of Test Piping and Instrumentation; 404.0 When Should Tests be Conducted?; 405.0 Test Planning; 405.1 Test Codes; 405.2 Equipment; 405.3 Process Considerations; 405.4 Safety; 405.5 Environmental Considerations 405.6 Pre-Test Inspection of Physical Facilities 406.0 Conducting the Test; 407.0 Duration of Test Points; 408.0 Selecting Instruments and Methods of Measurement; 409.0 Testing Methods; 409.1 Pressure and Temperature Measurement; 409.2 Gas Component Measurement; 409.3 Flow Measurement; 409.4 Power Measurement; 409.5 Speed

Measurement; 500.0 TEST PROCEDURE; 501.0 Site Test; 502.0 Test Planning; 503.0 Test Measurements; 504.0 Test Procedure; 600.0 COMPUTATION OF RESULTS; 700.0 EVALUATION OF RESULTS; 701.0 Guidelines for Field Modifications; 702.0 Error Analysis with Example; 800.0 APPENDIX  
801.0 Applicable Codes and Specifications 802.0 List of Symbols and Notations; 803.0 Subscripts; 804.0 Results of Sample Performance Test

---

Sommario/riassunto

With its engineer-tested procedures and thorough explanations, Centrifugal Compressors is an essential text for anyone engaged in implementing new technology in equipment design, identifying process problems, and optimizing equipment performance. This condensed book presents a step by step approach to preparing for, planning, executing, and analyzing tests of centrifugal compressors, with an emphasis on methods that can be conducted on-site and with an acknowledgement of the strengths and limitations of these methods. The book opens with an extensive and detailed section offering de

---