



Elliott Centrifugal Compressors

Optimized performance in high-pressure applications

Gas storage, CO₂ sequestration and enhanced oil recovery techniques, including gas injection and gas lift, usually come with high-pressure-compression needs. Gases in these applications are typically corrosive, always dense and potentially laden with moisture. This presents unique challenges for the compression equipment. Since the 1970s when Elliott provided the first centrifugal compressors put into extreme high-pressure service in the North Sea, Elliott has been offering high-pressure/high-density compression solutions.

Elliott high-pressure centrifugal compressors incorporate EDGE technology for performance, efficiency and reliability. They are characterized by their simple, single-shaft design and vertically-split barrel casings. Internals are packaged in a removable bundle, leaving the process piping and casing drain connections in place and untouched during maintenance cycles. The bundle includes the rotor, seals and bearings for ease of maintenance in locations where lay down space is available. The bundle can also be quickly and easily removed and replaced for exceptionally fast turnaround.

High gas pressure and density generate proportionally higher static force on compressor internals than lower pressure applications. Dynamic forces, which can be much greater than the static force associated with gas pressure, add to the challenge. Elliott high-pressure centrifugal compressors are designed to optimize aerodynamics and minimize stage deflections, and feature enhanced damping characteristics for rotor stability in these difficult, high-pressure applications.

The risks and costs of high pressure compression applications demand a high return throughout the lifetime of the gas field. Elliott's broad compression expertise, combined with a large, global installed base of compressors in high-pressure service, ensures exceptional performance and value. Turn to Elliott for high-pressure compression solutions.



Lower casing is designed to minimize deflection while ensuring consistent stage spacing.

Elliott Compressor Manual

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Memoirs of an Immigrant Olof A. Eriksen, 2008 The author of these memoirs was born in Norway in 1936 In 1952 he moved to Karlskrona Sweden to study mechanical engineering and 1956 he immigrated to the United States This book is his diary containing his true life memories

Compressor Performance Theodore Gresh, 2001-05-17 Compressor Performance is a reference book and CD ROM for compressor design engineers and compressor maintenance engineers as well as engineering students The book covers the full spectrum of information needed for an individual to select operate test and maintain axial or centrifugal compressors It includes basic aerodynamic theory to provide the user with the how s and why s of compressor design Maintenance engineers will especially appreciate the troubleshooting guidelines offered Includes many example problems and reference data such as gas properties and flow meter calculations to enable easy analysis of compressor performance in practice Includes companion CD with computer programs M Theodore Gresh has been with the Elliot Company in Jeannette Pennsylvania since 1975 initially working on the mechanical and aerodynamic design and application of centrifugal compressors Unrivalled coverage of the theory and practical use of all kinds of compressors in industrial use from an industry leading company source Complete subject reference and learning resource in one stop suitable for newly graduated engineers and experienced professional reference use Includes companion CD ROM

International mining and metallurgical manual ,1920 Moody's Manual of Railroads and Corporation Securities. Government, State and Municipal Supplement ,1905 **Moody's Manual of Railroads and Corporation Securities** ,1905

Operator, Organizational, Direct Support and General Support Maintenance Manual ,1989 **Index of Technical Publications** United States. Department of the Army, 1977 **Compressed Air Operations Manual** Brian

Elliott, 2010-05-31 Compressed air systems are the third most important utility to industry and are commonly the most misunderstood Written to appeal to operators mechanics and junior engineers this manual is designed to provide a solid understanding of common compression systems and operations techniques Using this book the users learn tips and techniques for creating a baseline of system performance determining the impact of different compressors and compressor control types for the job at hand and learning basic approaches to general maintenance *Elliott's Magazine* ,1921

Improving Machinery Reliability Heinz P. Bloch, 1998-09-18 Requirements specifications Vendor selection and bid conditioning Machinery reliability audits and reviews Maintenance and benchmarking reliability Life cycle cost studies Extending motor life in the process plant environment Equipment reliability improvement through reduced pipe stress Spare parts and their effect on service factor Startup responsibilities Maintenance for continued reliability Maintenance cost reduction Lubrication and reliability Providing safety and reliability through modern sealing technology Appendix Index

Petroleum Refining Design and Applications Handbook, Volume 2 A. Kayode Coker, 2021-04-13 A must read for any practicing engineer or student in this area There is a renaissance that is occurring in chemical and process engineering

and it is crucial for today's scientists, engineers, technicians, and operators to stay current. This book offers the most up-to-date and comprehensive coverage of the most significant and recent changes to petroleum refining, presenting the state of the art to the engineer, scientist, or student. Useful as a textbook, this is also an excellent handy go-to reference for the veteran engineer. A volume no chemical or process engineering library should be without.

Petroleum Supply Company United States. Department of the Army, 1979. , Index of Technical Manuals, Technical Regulations, Technical Bulletins, Supply Bulletins, Lubrications Orders, and Modification Work Orders United States. Department of the Army, 1954. A *Practical Guide to Compressor Technology* Heinz P. Bloch, 2006-10-25. A complete overview of theory, selection, design, operation, and maintenance. This text offers a thorough overview of the operating characteristics, efficiencies, design features, troubleshooting, and maintenance of dynamic and positive displacement process gas compressors. The author examines a wide spectrum of compressors used in heavy process industries with an emphasis on improving reliability and avoiding failure. Readers learn both the theory underlying compressors as well as the myriad day-to-day practical issues and challenges that chemical engineers and plant operation personnel must address. The text features latest design and manufacturing details of dynamic and positive displacement process gas compressors. Examination of the full range of machines available for the heavy process industries. Thorough presentation of the arrangements, material composition, and basic laws governing the design of all important process gas compressors. Guidance on selecting optimum compressor configurations, controls, components, and auxiliaries to maximize reliability. Monitoring and performance analysis for optimal machinery condition. Systematic methods to avoid failure through the application of field-tested reliability enhancement concepts. Fluid instability and externally pressurized bearings. Reliability-driven asset management strategies for compressors. Upstream separator and filter issues. The text's structure is carefully designed to build knowledge and skills by starting with key principles and then moving to more advanced material. Hundreds of photos depicting various types of compressors, components, and processes are provided throughout. Compressors often represent a multi-million dollar investment for such applications as petrochemical processing and refining, refrigeration, pipeline transport, and turbochargers and superchargers for internal combustion engines. This text enables the broad range of engineers and plant managers who work with these compressors to make the most of the investment by leading them to the best decisions for selecting, operating, upgrading, maintaining, and troubleshooting.

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The Mines Handbook Walter Garfield Neale, Lenox Hawes Rand, Edward Barney Sturgis, 1916. **Catalogue of Title-entries of Books and Other Articles Entered in the Office of the Librarian of Congress, at Washington, Under the Copyright Law ... Wherein the Copyright Has Been Completed by the Deposit of Two Copies in the Office** Library of Congress. Copyright Office, 1943. **Monthly Catalogue, United States Public Documents**, 1992.

Monthly Catalog of United States Government Publications, 1998-07.

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Elliott Compressor Manual Introduction

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