



The API 682 Standard 4th Edition

Shaft Sealing Systems for Rotary Pumps

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ML Morrison



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Process Machinery Handbook Robert X. Perez, 2025-07-22 Process Machinery Handbook For Field Personnel Decision Makers and Students equips newcomers and seasoned professionals with essential insights into the diverse world of process machinery empowering them to understand unique performance characteristics common failure modes and effective strategies for enhancing reliability in their operations Any professional working at a production site for any length of time knows that process machinery comes in a wide range of designs and sizes but not all process machines are considered equal Some machines are more critical to the process than others some are small some are very large some spin fast and some turn relatively slowly The great diversity in their construction and application can be daunting to those new to the industry and sometimes even challenge machinery veterans There are many common concepts that apply to all equipment types but each equipment category has its own unique application and performance characteristics including cavitation in liquid handling pumps surging in centrifugal gas compressors rotor instability in high speed centrifugal compressors and the effect of the compression ratio on a reciprocating compressor s the discharge temperature It is also essential for users to understand how and why different types of machinery fail keeping in mind that the common failure modes differ greatly between rotating machinery types We know that by addressing the common types of failure modes associated with each machine type we can achieve significant improvements in their reliability The first step in organizing an effective machinery reliability program is committing to performing failure analyses and gathering failure statistics These activities will help users learn how and why their machines are failing The next step is to continuously modify machines processes and methods to avoid common failures Process Machinery Handbook For Field Personnel Decision Makers and Students gives students and professionals alike the tools they need to understand the fundamentals of working with rotating machinery Maintenance, Reliability and Troubleshooting in Rotating Machinery Robert X. Perez, 2022-06-21 Maintenance Reliability and Troubleshooting in ROTATING MACHINERY This broad collection of current rotating machinery topics written by industry experts is a must have for rotating equipment engineers maintenance personnel students and anyone else wanting to stay abreast with current rotating machinery concepts and technology Rotating machinery represents a broad category of equipment which includes pumps compressors fans gas turbines electric motors internal combustion engines and other equipment that are critical to the efficient operation of process facilities around the world These machines must be designed to move gases and liquids safely reliably and in an environmentally friendly manner To fully understand rotating machinery owners must be familiar with their associated technologies such as machine design lubrication fluid dynamics thermodynamics rotordynamics vibration analysis condition monitoring maintenance practices reliability theory and other topics The goal of the Advances in Rotating Machinery book series is to provide industry practitioners a time savings means of learning about the most up to date rotating machinery ideas and best practices This three book series will cover industry relevant topics such as design

assessments modeling reliability improvements maintenance methods and best practices reliability audits data collection data analysis condition monitoring and more Volume one began the series by focusing on design and analysis Volume two continues the series by covering important machinery reliability concepts and offering practical reliability improvement ideas Best in class production facilities require exceptional machinery reliability performance In this volume exceptional machinery reliability is defined as the ability of critical rotating machines to consistently perform as designed without degradation or failure until their next scheduled overhaul Readers will find this volume chock full of practical ideas they can use to improve the reliability and efficiency of their machinery Maintenance Reliability and Troubleshooting in Rotating Machinery covers among many other topics General machinery reliability advice Understanding failure data Design audits and improvement ideas Maintenance best practices Analyzing failures

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