

A Step-by-Step Approach to Pump Selection

Consider pipe sizing and motor power requirements before picking your pump.

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Unless a brand new plant is being designed, users decide to replace a pump because of its age and wear or persistent reliability issues.

Plant engineers typically spend their time with the process to make sure machinery is working, water is flowing, power is produced, lights are up and no environmental problems are developing. They are not, as a rule, experts on any particular type of machinery.

They are basically generalists, having learned to rely on qualified suppliers, who are experts within their particular niche (pumps, centrifuges, boilers, generators, etc.). When a pump fails, it is usually replaced with a new one, without much analysis or discussion. If it continues to fail frequently, a new supplier is approached for a better, more reliable pump.

Occasionally, a relatively minor modification to the process, like an addition of a cooling (or heating) piping loop, for example, is needed. It may not be a particularly complex system, and hiring major design contractors may not be economical for such a small project. Yet, it might still be beyond the expertise of the plant engineers, maintenance and operating personnel.

Process Pumps Selection A Systems Approach

Larry W. Mays



Process Pump Selection A Systems Approach:

Process Pump Selection John Davidson, Otto von Bertele, 2000 This fully revised and up dated Second Edition of the highly successful Process Pump Selection eases the daunting task that faces a process industries engineer employed in the process industries and responsible for the specification selection and purchase of process equipment This volume provides essential guidelines based on the operational experience of large numbers of plumbing installations over many years on a diverse range of duties and process plants Process Pump Selection A Systems Approach will be an invaluable source of information for engineers and others working for user organizations in the process and service sector industries It will not only be of great assistance to engineers faced with the specification selection and procurement of pumps but will also provide pump manufacturers with a great insight into the problems facing pump users and plant designers **COMPLETE CONTENTS** Pump specification and selection Positive displacement pumps reciprocating metering Positive displacement pumps reciprocating special purpose Positive displacement pumps rotary Centrifugal pumps Centrifugal pumps special purpose and multistage Common points Sealing considerations Pump and system combined Appendices Index **Process Pump Selection** John Davidson, 1986 *Pumps for Chemical Processing* J.T. McGuire, 2020-07-24 A reference for the chemical engineer on the application selection construction procurement installation operation and maintenance of the three basic types of pumps used in chemical processing centrifugal rotary and reciprocating Emphasizes aspects that cause practical operating problems

Chemical Engineering Design Ray Sinnott, 2005-07-01 Chemical Engineering Design is one of the best known and widely adopted texts available for students of chemical engineering It deals with the application of chemical engineering principles to the design of chemical processes and equipment Revised throughout the fourth edition covers the latest aspects of process design operations safety loss prevention and equipment selection among others Comprehensive and detailed the book is supported by problems and selected solutions In addition the book is widely used by professionals as a day to day reference Best selling chemical engineering text Revised to keep pace with the latest chemical industry changes designed to see students through from undergraduate study to professional practice End of chapter exercises and solutions

Encyclopedia of Chemical Processing and Design John J. McKetta Jr, 1993-08-27 Written by engineers for engineers with over 150 International Editorial Advisory Board members this highly lauded resource provides up to the minute information on the chemical processes methods practices products and standards in the chemical and related industries **Process Engineering**, 1987 **Engineers' Guide to Product Information** Raymond A. Wall, 1992 **Pump Handbook** Igor J. Karassik, Joseph P. Messina, Paul Cooper, Charles C. Heald, 2007-12-18 Rely on the 1 Guide to Pump Design and Application Now Updated with the Latest Technological Breakthroughs Long established as the leading guide to pump design and application the Pump Handbook has been fully revised and updated with the latest developments in pump technology Packed with 1 150 detailed illustrations and written by a team of over 100 internationally renowned pump experts this vital tool

shows you how to select purchase install operate maintain and troubleshoot cutting edge pumps for all types of uses The Fourth Edition of the Pump Handbook features State of the art guidance on every aspect of pump theory design application and technology Over 100 internationally renowned contributors SI units used throughout the book New sections on centrifugal pump mechanical performance flow analysis bearings adjustable speed drives and application to cryogenic LNG services completely revised sections on pump theory mechanical seals intakes and suction piping gears and waterhammer application to pulp and paper mills Inside This Updated Guide to Pump Technology Classification and Selection of Pumps Centrifugal Pumps Displacement Pumps Solids Pumping Pump Sealing Pump Bearings Jet Pumps Materials of Construction Pump Drivers and Power Transmission Pump Noise Pump Systems Pump Services Intakes and Suction Piping Selecting and Purchasing Pumps Installation Operation and Maintenance Pump Testing Technical Data *Fluid Mechanics and Fluid Power*, 1988 Applying the Systems Approach to Urban Development Jack W. LaPatra, 1973 Se nos ofrece el analisis de sistemas para el desarrollo urbano El libro esta dividido en cuatro partes Analisis metodologicos modelos de desarrollo para los sistemas regionales modelos y analisis de los sub Sistemas urbanos y sistemas para el tratamiento de los problemas urbanos del futuro **The Technology of Artificial Lift Methods** Kermit E. Brown, 1977 Pumping Manual, 1977 **Bioprocess Engineering Symposium, 1991** Barbara K. Henon, 1991 Methods and Techniques of Ground-water Investigation and Development, 1967 **AICHE Symposium Series** American Institute of Chemical Engineers, 1972 **Petroleum Abstracts**, 1995 **Stormwater Collection Systems Design Handbook** Larry W. Mays, 2001-05-11 A comprehensive overview of stormwater and wastewater collection methods from around the world written by leading experts in the field Includes detailed analysis of system designs operation maintenance and rehabilitation The most complete reference available on the subject *First International Conference on Intelligent Systems in Process Engineering* James F. Davis, George Stephanopoulos, Venkat Venkatasubramanian, 1996 Paper, 1993 **ASHRAE Handbook**, 1987

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