



# CHOOSING AN IDEAL METERING PUMP FOR CHEMICAL INJECTION APPLICATION

Along with its significant applications in water treatment, metering pumps are a popular option for chemical injection in agricultural and other applications.

## 4 Important Factors to Consider When Choosing Metering Pumps

### FLOW RATE

The flow rate of the metering pump should be around 85% of the pump's capacity and it should not be oversized.



### MATERIALS OF CONSTRUCTION

Metering pump suppliers usually display a huge collection of pumps. So, check for a material that's most compatible with chemicals.

### CHEMICAL MAKEUP

The viscosity differs for different chemicals. Investing in a pump that can handle chemicals with viscosity ranging from 1,500 centipoises to 5000 cPs or more, is ideal.



### ENVIRONMENT

Deciding whether a metering pump is to be used indoors or outdoors is important as the environment plays a vital role in the pump's operation.

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# Metering Pump Application Guide

**Jin-Ying Zhang**



## **Metering Pump Application Guide:**

*Metering Pump Handbook* Robert E. McCabe, Philip G. Lanckton, William V. Dwyer, 1984 An outstanding reference the Handbook is designed for metering pump designers and engineers working in all industries Easily accessible information includes fundamentals of metering pump operation principles of pump and piping system design guidelines for selection pump construction materials procedures for installation operation and maintenance of metering pumps and general formulas tables charts and pumping system layouts Presents the basic principles of the positive displacement pump Develops in depth analysis of the design of reciprocating metering pumps and their piping systems Demonstrates the practical implementation of these concepts through examples of actual pump applications *Leak-Free Pumps and Compressors Handbook* G. Vetter, 1995-12-20 A survey of leak free centrifugal and positive displacement pumps Properties and design criteria for magnetic drives on pumps Zero leakage pumps equipped with permanent magnetic drive Leak free centrifugal pumps in plastic Canned motor pumps an important contribution to leakage free operation Standardized chemical pump with canned motor in flameproof enclosures Canned motor and magnetic drive systems a comparison Reciprocating metering pumps in leak free design Leakage free metering of fluids in fully automated processes Process diaphragm pumps Diaphragm compressors Liquid ring vacuum pumps and compressors with magnetic drive Leak proof Roots vacuum pumps [Data Manipulation in Sci-tech Libraries](#) Ellis Mount, 1985 *Surface Production Operations: Volume IV: Pumps and Compressors* Maurice Stewart, 2018-11-27 For over thirty years the Surface Production Operations Series has taken the guess work out of the design selection installation operation testing and troubleshooting of surface production equipment The fourth volume in this series Pumps and Compressors is directed to both entry level personnel and practicing professionals looking for an up to date reference book on managing evaluating sizing selecting installing operating and maintaining pump and compressor systems Packed with examples drawn from years of design and field experience this reference features many charts tables equations diagrams and photographs to illustrate the basic applications including pump hydraulics centrifugal and reciprocating compressor applications compressor performance maps pump performance curves pump and compressor testing and installation and many more critical topics Packed with practical solutions Surface Production Operations Pumps and Compressors delivers an essential design and specification reference for today s engineers Covers application and performance considerations for all types of pumps and compressors Delivers hands on manual for applying mechanical and physical principles to select and design pump and compressor systems supported by many tables and diagrams Gives expert advice on how to apply design codes and standards such as API 610 API 674 ANSI B78 1 API 617 API 11P API RP 14C and the Hydraulic Institute [Forsthoffer's Proven Guidelines for Rotating Machinery Excellence](#) William E. Forsthoffer, 2021-12-03 Forsthoffer s Proven Guidelines for Rotating Machinery Excellence draws on Forsthoffer s 60 years of industry experience to get new operatives up to speed fast Each of the topics covered are selected based on hard won

knowledge of where problems with rotating machinery originate This easy to use highly illustrated book is designed to elevate the competence of entry level personnel to enable them to immediately contribute to providing optimum rotating machinery reliability for their companies The first 3 chapters address practical personal rotating machinery awareness detail how to optimize this awareness to identify low hanging fruit safety and reliability improvement opportunities and how to define and implement a cost effective action plan The remaining chapters focus on the function of key components in each type of rotating machinery and how to monitor and correct their condition before failure The last chapter is an RCA Root Cause Analysis procedure chapter detailing effective Root Cause Identification before a Failure to prevent a costly failure and the need for a RCFA Real life examples are provided from the field of operation and maintenance of rotating machinery helping readers to implement effectively Includes important advice on monitoring approaches for different types of machines highlighting differences between working with pumps and compressors A chapter on Root Cause Identification features proven methods to help your organization to prevent machinery failures

*The Chemical Engineering Guide to Pumps* Kenneth J. McNaughton,1984

2. Forsthoffer's Rotating Equipment Handbooks William E. Forsthoffer,2005-12-16 Over recent years there have been substantial changes in those industries which are concerned with the design purchase and use of special purpose ie critical high revenue rotating equipment Key personnel have been the victims of early retirement or have moved to other industries contractors and end users have reduced their technical staff and consequently have to learn complex material from scratch As a result many companies are finding that they are devoting unnecessary man hours to the discovery and explanation of basic principles and having to explain these to clients who should already be aware of them In addition the lack of understanding by contractors and users of equipment characteristics and operating systems often results in a wrong fit and a costly reliability problem Forsthoffer s Rotating Equipment Handbooks Pumps presents the operation of pumps in a process system using the concept of pump required and produced head pump selection for cost effective maximum reliability eliminating hydraulic disturbances in the design and field operation phases control and protection practical component monitoring of performance bearing seal and auxiliary system condition to assure optimum pump safety and reliability Forsthoffer s Rotating Equipment Handbook Pumps is the second title in the five volume set The volumes are 1 Fundamentals of Rotaing Equipment 2 Pumps 3 Compressors 4 Auxiliary Systems 5 Reliability Optimization through Component Condition Monitoring and Root Cause Analysis One of a five volume set which is the distillation of many years of on site training by a well known US Engineer who also operates in the Middle East A Practical book written in a succinct style and well illustrated throughout

**Water & Sewage Works** ,1978 Vols 76 include Reference and data section for 1929 1929 called Water works and sewerage data section

Instrument Engineers' Handbook, Volume Two Bela G. Liptak,2018-10-08 The latest update to Bela Liptak s acclaimed bible of instrument engineering is now available Retaining the format that made the previous editions bestsellers in their own right the fourth edition of Process Control and

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**Blankenship, G. Lipton** speaks on Post Oil Energy Technology on the AT T Tech Channel. *Handbook of Pumps and Pumping*, Brian Nesbitt, 2006-10-18. Written by an experienced engineer, this book contains practical information on all aspects of pumps, including classifications, materials, seals, installation, commissioning, and maintenance. In addition, you will find essential information on units, manufacturers, and suppliers worldwide, providing a unique reference for your desk, R D lab, maintenance shop, or library. Includes maintenance techniques helping you get the optimal performance out of your pump and reducing maintenance costs. Will help you to understand seals, couplings, and ancillary equipment, ensuring systems are set up properly to save time and money. Provides useful contacts for manufacturers and suppliers who specialise in pumps, pumping, and ancillary equipment. *Chemical Engineering Progress*, 2001. **Chemical Engineering Equipment Buyers' Guide**, 1986-08. *Mechanical Engineering Bulletin*, 1984. *Commercial-Industrial Cleaning, by Pressure-Washing, Hydro-Blasting and UHP-Jetting*, Wolfgang Maasberg, 2012-01-04. This is the first proprietary manual for cleaning and rehabilitation through pressure washing, hydro blasting, and ultra high pressure water jetting (UHP). It includes gear lists to help readers easily identify the appropriate tooling and equipment. *Subject Guide to Books in Print*, 1993. **Guide to Chemical Plant Planning, 1969**, Robert Lobstein, 1969. **New Technical Books**, New York Public Library, 1985. *Mechanical Engineering*, American Society of Mechanical Engineers, 1947. **Public Works**, 1960. **Control Engineering**, 1960. Instrumentation and automatic control systems.

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