

Motor:
Standard motor
Explosion-proof motor
Variable frequency motor



Integrated "Outer" worm gear pair, with low noise, high transmission efficiency, low energy consumption, large torque, low maintenance cost and long service life.

Adjustment Modes:
Manual, electrical, pneumatic and frequency converter



Adjustment Mechanism:

Intelligent design of integrated sleeve adjustable device mechanism, with simple structure, high transmission efficiency, strong bearing capacity, stable and reliable, long service life, convenience maintenance, adjustment range: 0-100% impeller adjustment.

Compensating Valve:

Compensating valve ensures the stability of oil volume and oil pressure in hydraulic chamber.

Internal Safety Valve:
Ensures of external flow channel, reduces leakage point, prevents hydraulic chamber from over pressure, and thus protects safe operation of metering pump.

Check Valve:

Metering accuracy of metering pump depends on the quality of check valve. The design of check valve meets requirements of all working conditions. Ball valve, flat valve and cone valve are available, valve ball can choose ceramic ball, hydrofluorocarbon special ball and so on.

Diaphragm Rupture Alarm System:

Diaphragm rupture alarm system (pneumatic alarm), can ensure the fluid being not polluted.

Limit Valve:

Limit valve prevents hydraulic chamber from excessive oil supply, avoids diaphragm deformation, due to overloading, prolong service life of diaphragm.

Pump Head:

Superior chamber design protects the diaphragm effectively and ensures smooth flow of media.

Diaphragm:

PTFE, multi-directional rating and quenching treatment enhances tenacity of the diaphragm and prolongs its service life. Single diaphragm, double diaphragm and triple diaphragm etc. are available.

Metering Pump Application Guide

Arturo Cuomo

Metering Pump Application Guide:

Data Manipulation in Sci-tech Libraries Ellis Mount,1985 **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. **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. **Instrument and Automation Engineers' Handbook** Bela G. Liptak, Kriszta Venczel,2022-08-31 The Instrument and Automation Engineers Handbook IAEH is the Number 1 process automation handbook in the world. The two volumes in this greatly expanded Fifth

Edition deal with measurement devices and analyzers Volume one Measurement and Safety covers safety sensors and the detectors of physical properties while volume two Analysis and Analysis describes the measurement of such analytical properties as composition Complete with 245 alphabetized chapters and a thorough index for quick access to specific information the IAEH Fifth Edition is a must have reference for instrument and automation engineers working in the chemical oil gas pharmaceutical pollution energy plastics paper wastewater food etc industries *The Chemical Engineering Guide to Pumps* Kenneth J. McNaughton,1984 **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 *Measurement and Safety* Béla G. Lipták,Kriszta Venczel,2016-11-25 This handbook is dedicated to the next generation of automation engineers working in the fields of measurement control and safety describing the sensors and detectors used in the measurement of process variables **Chemical Engineering Equipment Buyers' Guide** ,1986-08

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 operationphases 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

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This book delves into Metering Pump Application Guide. Metering Pump Application Guide is a crucial topic that must be grasped by everyone, ranging from students and scholars to the general public. This book will furnish comprehensive and in-depth insights into Metering Pump Application Guide, encompassing both the fundamentals and more intricate discussions.

1. The book is structured into several chapters, namely:

- Chapter 1: Introduction to Metering Pump Application Guide
- Chapter 2: Essential Elements of Metering Pump Application Guide
- Chapter 3: Metering Pump Application Guide in Everyday Life
- Chapter 4: Metering Pump Application Guide in Specific Contexts
- Chapter 5: Conclusion

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6. In chapter 5, this book will draw a conclusion about Metering Pump Application Guide. The final chapter will summarize the key points that have been discussed throughout the book.

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