

Motor:

Standard motor
Explosion-proof motor
Variable frequency motor

Internal Safety Valve

Source of internal 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 ordinary ball, hydrofluoric acid special ball and so on.

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

Diaphragm Rupture Alarm System

Diaphragm rupture alarm system (cocatheter 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, prolongs service life of diaphragm.

Adjustment Mode:

Manual, electrical, pneumatic and frequency conversion

Pump Head

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

Adjustment Mechanism:

Patented design of integrated sleeve adjustable eccentric mechanism, with simple structure, high transmission efficiency, strong bearing capacity, stable and reliable, long service life, convenient maintenance, adjustment range: 0-100% stepless adjustment.

Compensating Valve

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

Diaphragm

PTFE, multi-directional rolling 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

United States. War Department



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

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 *Chemical Feed Field Guide for Treatment Plant Operators* Michael G. Barsotti, David K. Hardy, 2009 **Process Analyzer Sample-Conditioning System Technology** Robert E. Sherman, 2002-01-11 Sampling systems are one part chemistry one part engineering electrical chemical mechanical civil and maybe even software No one person possesses all of the knowledge required Bob Sherman comes as close as anyone John A Crandall V P Sales Americas ABB Process Analytics This resource provides both novice and experienced technologist with the technical background necessary to choose sample conditioning system components that will allow the process analyzer system to function reliably with minimal maintenance The conditioned process sample presented to the process analyzer should be of similar quality to the calibration material used to zero and span the analyzer Filling a long standing void in the process field this book addresses the system concept of Process Analyzer Sample Conditioning Technology in light of the critical importance of delivering a representative sample of the process

stream to the process analyzer Offering detailed descriptions of the equipment necessary to prepare process samples and listings of two or more vendors when available for equipment reviewed Process Analyzer Sample Conditioning System Technology discusses The importance of a truly representative sample Sample probes transfer lines coolers and pumps Sample transfer flow calculations for sizing of lines and system components Particulate filters gas liquid and liquid liquid separation devices Sample pressure measurement and control Enclosures and walk in shelters their electrical hazard ratings and climate control systems With extensive system and component examples including what worked and what didn't Process Analyzer Sample Conditioning System Technology gives the new technologist a basic source of design parameters and performance proven components as well as providing the experienced professional with a valuable reference resource to complement his or her experience

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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

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

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

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

OECD Guidelines for the Testing of Chemicals, Section 2 Test No. 234: Fish Sexual Development Test OECD, 2011-07-28 This Test Guideline describes an assay that assesses early life stage effects and potential adverse consequences of putative endocrine disrupting chemicals e.g. oestrogens androgens and steroidogenesis inhibitors on fish sexual development In

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