

Mechanical Diaphragm Metering Pump

This mechanical diaphragm metering pump uses a crank linkage mechanism to convert rotary motion into a reciprocating linear motion. The pump is designed for precise fluid delivery by opening and closing a one-way valve on the pump head.



Overview

Mechanical Diaphragm Metering Pump

The DJZ series mechanical diaphragm metering pump is designed for precise fluid delivery, converting rotary motion into reciprocating linear motion via a crank linkage mechanism. This robust pump features a mechanically driven PTFE film and offers versatile control options, including manual, automatic stroke adjustment, and digital frequency conversion. With its ability to handle a wide range of materials and operating conditions, it is an ideal solution for industrial chemical injection and water treatment applications.

Performance Metrics

Rated Flow Capacity

500 L/h

Max Displacement

Rated Pressure	1 MPa
Flow Accuracy	<±1%
Flow Adjustment Range	10-100%

Technical Specifications

Applicable Medium Temperature	-10°C ~ 100°C
PH Value of Slurry	2.5-13
Max Slurry Temperature	65 °C
Drive Mechanism	Crank connecting rod transmission

Features & Options

Control Options

Manual Stroke • Automatic Stroke • Digital Frequency Conversion

Optional Features

- Double diaphragm pump head
- Diaphragm rupture alarm
- Hot jacket type pump head

Available Pump Head Materials	PVC, PVDF, PTFE, 304 Alloy, 316L Alloy
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Design Advantages

Key Operational Benefits

Benefit Category	Details
Efficiency	High efficiency, energy saving
Durability	Wear resistance, corrosion resistance, heavy duty
Operation	Little noise, low vibration, stable performance
Maintenance	Interchangeable parts, oil lubrication