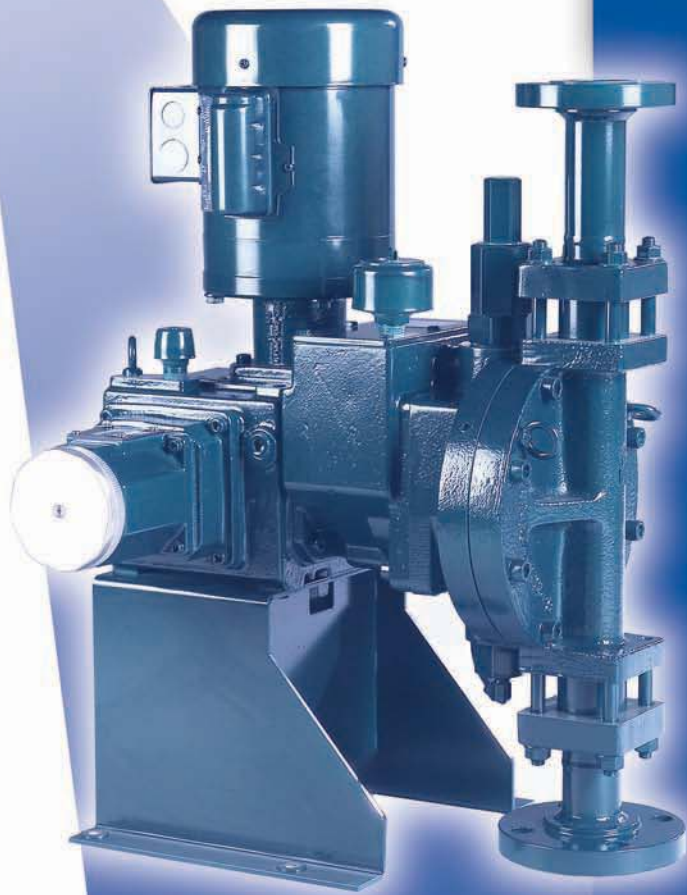




- Non-Seal Canned Motor Pumps
- Metering Pumps



NIKKISO Pumps America, Inc.



No leaks. No kidding.

## NON-SEAL™ PUMP

Zero Leakage Canned Motor Pumps

The Nikkiso Non-Seal Series of pumps are ideal for difficult, high-value, and hazardous duties where process leaks are simply not acceptable. The true secondary containment inherent in our canned motor pump design ensures your safety while the automatic thrust balance system and E-Monitor (patent pending) maximizes reliability and keeps track of bearing wear conditions.

With horizontal or vertical configurations and standard, high-temperature, slurry, reverse circulation, jacketed, submersible, self-priming, pit barrel, in-line, and multi-stage models, we have a Nikkiso Non-Seal pump that is perfect for even the most demanding applications.

### Specifications

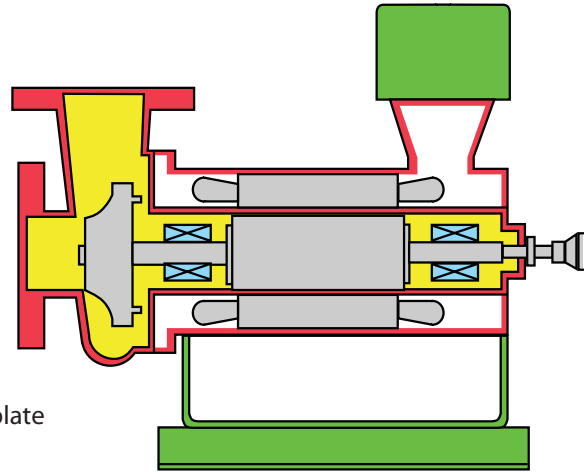
Flow: 10,550 GPM (2,400 m<sup>3</sup>/hr)

Head: 1,640 ft. (500 m)

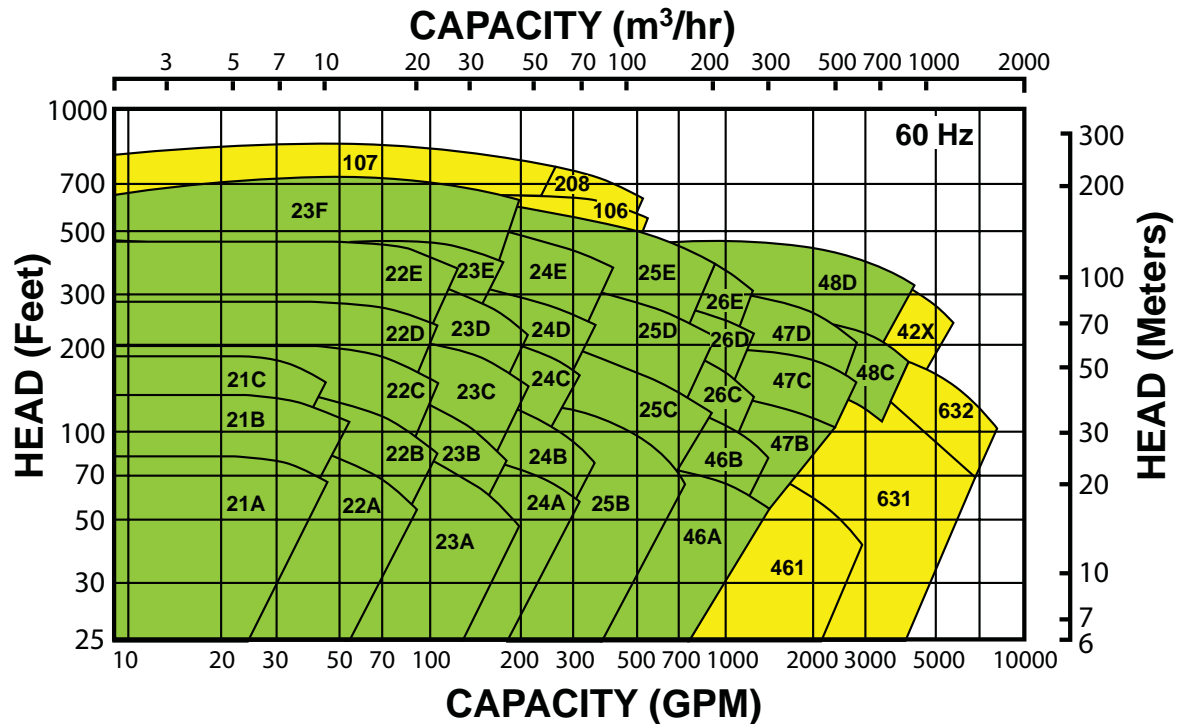
Temperature: -330° to +840°F (-200° to +450°C)

### NIKKISO Non-Seal™ Pumps—The Best Choice

- No shaft seals—no leak paths
- No buffer pots to maintain
- No coupling or alignment problems
- Primary and secondary containment
- Proven bearing monitor tracks wear
- Dry stator design and sealed junction box terminal plate



NIKKISO's E-monitor reduces unplanned downtime by tracking bearing conditions



## MX

### Hydraulically Actuated or Packed Plunger Metering Pump

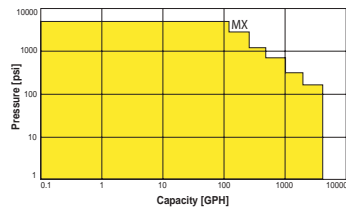
The Series 5000 is an API-675 compliant hydraulically actuated pump.

This high performance metering pump utilizes many unique design features to make it a state of the art machine. Our X-Crank design, improves load carrying characteristics and precise stroke setting over polar crank designs. While the X-Crank allows us to have a much smaller footprint (as much as 50% less than that of some of our competitors), it also enables steady state accuracy to +/-0.5%.

Combine all of this with a digital stroke indicator, a gearbox that has eliminated any oil seals which can leak to the environment, a dynamic oil compensation system driving the diaphragm and extensive availability of materials and options, our heavy duty pump is second to none!



The NIKKISO Series 5000 MX pump is compact, accurate, durable and API-675 compliant.



### Specifications

Flow: 0 to 4,137 GPH in simplex configuration

Pressures: 0 to 5,075 psig in standard configuration

Diaphragm materials: PTFE, 316 SS, Hastelloy® C

Accuracy: +/- 0.5%

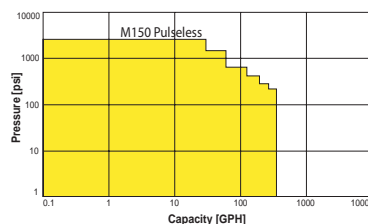
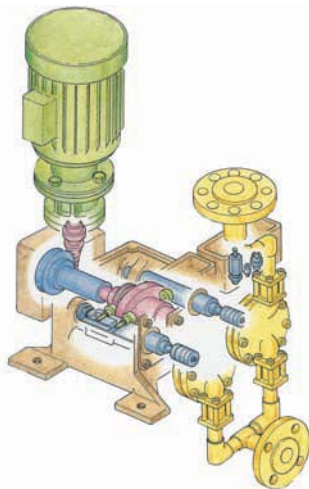
## PULSELESS

### Hydraulically Actuated or Packed Plunger Metering Pump

The Series 6000 pulseless pump from NIKKISO utilizes a unique sinusoidal cam design to significantly nearly eliminate pulsations inherent in all reciprocating pumps. Using our precision valve design, we can maintain our accuracy to +/-0.5%. All of this gives us a pulseless pump that has many unique applications in the pharmaceutical, power and chemical markets. Whether you are pumping something that is hard to economically dampen such as HF Acid or your system is pulsation sensitive as with chromatography columns and ammonia injection for NOX reduction, the Series 6000 is the answer. Sanitary configurations are also available.



Pulseless ..... REALLY!



### Specifications

Flow: 0 to 500 GPH

Pressures: 0 to 4,350 psig

Diaphragm materials: PTFE

Accuracy: +/- 0.5%



NIKKISO Pumps America, Inc. is guided, are all NIKKISO Companies by the following principles

- We are committed to customer satisfaction by providing distinctive and superior products that consistently meet or exceed expectations
- Be uncompromising in legal and ethical matters as a good corporate citizen
- Earn the trust and unshakable confidence of our customers, investors, vendors, employees and society
- Be innovative in everything we do
- Learn for self-improvement, to keep in step with global trends and to grow personally and professionally



New NIKKISO Pumps America, Inc. US Headquarters in Houston, Texas. This new facility will support both Nikkiso's Metering Pump and Non-Seal Canned Motor Pump lines.

NIKKISO Pumps America, Inc. was founded in December, 2000 by NIKKISO Co., LTD to service the North, Central and South American markets for NIKKISO products. In January 2001, NIKKISO Pumps America, Inc. acquired the Hydroflo product line and a 35,000 sq. ft. manufacturing facility in Plumsteadville, PA.

While our focus is upon exceeding our customers expectations in the traditional metering pump markets of Agricultural, Beverage, Chemical, Electronics Manufacturing, Food, Oil & Gas, Personal Care, Petrochemical, Pharmaceutical, Power Generation, Pulp & Paper, Refinery, Textile, Water and Wastewater Treatment, we also work with many different and diverse OEM's in other markets.

Our employees, all of whom have extensive metering pump backgrounds, have been selected based upon their particular strengths within specific market specialties. This allows NIKKISO Pumps America, Inc. to assign a knowledgeable specialist to a customer's specific application, providing the utmost in problem solving abilities. Our in house Production Team can also custom engineer and build packages, the scope of which can evade most other manufacturers.

We look forward to serving you.

NIKKISO Co., Ltd. was founded in 1953 as the Special Pump Company. Our first product was a metering pump. Since that time, NIKKISO has followed its guiding principles of using original technology to contribute to the quality of human life and the environment to develop into a diverse multinational organization.

Today, NIKKISO Co., Ltd. consists of six operational units.

The Fluid Technologies Unit manufactures pumps and other equipment to protect the environment. These products include: seal-less canned motor centrifugal pumps, submerged motor pumps for liquefied gases, seal-less high-accuracy controlled volume pumps, non clog/self-priming centrifugal pumps, high-head high-speed centrifugal pumps, high-speed centrifugal compressors and high-pressure pipe connectors.

The Industrial Solutions Unit manufactures equipment and systems for particle size measurement, automatic analysis,

testing of powders, isostatic presses (thermal laminating equipment, powder molding equipment, automated conveyors for presses), and super critical equipment for the manufacture of carbon dioxide. In addition the unit manufactures superfine powders, industrial air dryers, flow meters, electronic parts mounting, emergency water purifiers, industrial water conditioning systems, waste water treatment systems, automated instrumentation control systems, ozone treatment systems, test equipment for experimental and research use, water and gas analyzers.

The Composite Technologies Unit makes carbon fiber reinforced plastic (CFRP) products, such as aircraft, space and satellite components.

The Medical Equipment Unit builds artificial organs and other medical equipment (Infusion Pumps, etc.). Artificial organs are: hemodialysis machines (Central Monitoring Systems, Hemodialysis Systems/ Equipment, and consumables such as Hollow Fiber Dialyzers, Blood Tubing sets, and Powder Dialysate), extracorporeal circulation devices (Centrifugal Blood Pumps), and Artificial Endocrine Pancreases.



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