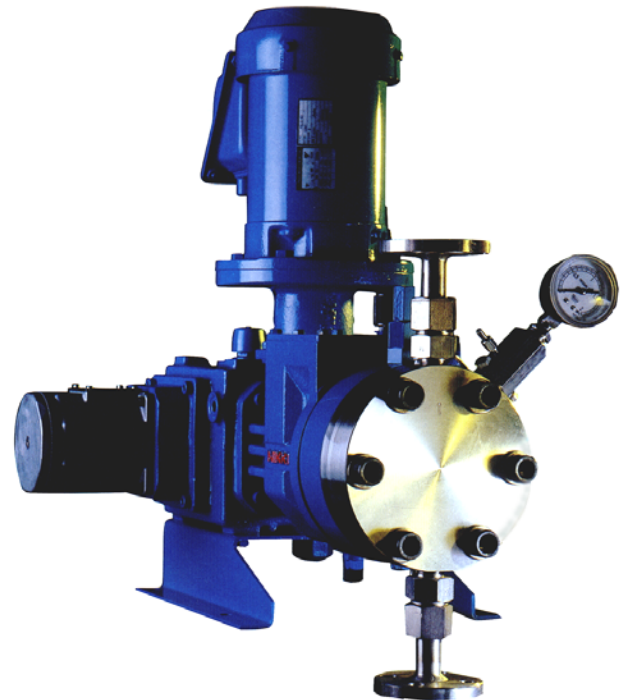


Features:

- Design Capacities of 0.39 to 137 GPH
- Discharge Pressures to 5,075 PSIG
- Metering Accuracy of ±0.5%
- 10:1 Turndown via Stroke Length
- Internal Hydraulic Relief Valve
- Modular Design for Ease of Upgrades
- Multiple Options for Custom Solutions
- Specifically Matched Accessories
- API 675 & HI Standards Compliant



| Performance Table* | | | | | | | | | | | | | | | | | | | |
|--|-----------------|--|------------------|-------------|--|-------|------------|--|-------|-------------|-------------------------------------|-------|----------|-------------------------------------|-------|-----------|-------------------------------------|-------|-------------|
| Capacity (GPH) | Pressure (PSIG) | Speed (SPM) | Plunger Diameter | Connection | | | | | | | | | | | | | | | |
| 0.39 0.77 1.00 1.25 1.54 2.01 2.50 | 5,075 | 32 65 85 105 130 170 215 | 7mm | 1/2" X 1/2" | | | | | | | | | | | | | | | |
| 0.82 1.64 2.13 2.67 3.29 4.29 5.37 | | 5,075 | | | 32 65 85 105 130 170 215 | 10 mm | 1/2 X 1/2" | | | | | | | | | | | | |
| 1.67 3.34 4.34 5.43 6.68 8.70 10.8 | | | | | 3,495 | | | 32 65 85 105 130 170 215 | 14 mm | 1/2" x 1/2" | | | | | | | | | |
| 3.34 6.68 8.70 10.8 13.3 17.2 | | | | | | | | 1,740 | | | 32 65 85 105 130 170 | 20 mm | 1 x 3/4" | | | | | | |
| 6.63 13.2 17.1 21.3 26.4 34.3 | | | | | | | | | | | 855 | | | 32 65 85 105 130 170 | 28 mm | 1" x 3/4" | | | |
| 13.3 26.6 34.7 43.4 53.4 69.5 | | | | | | | | | | | | | | 420 | | | 32 65 85 105 130 170 | 40 mm | 1 1/2" x 1" |
| 26.4 52.9 68.9 86.0 106 137 | | | | | | | | | | | | | | | | | 215 | | |

The NIKKISO Milflo™ MX Series 5000 is a high performance, state-of-the-art, hydraulically actuated, diaphragm metering pump. The pump is available in simplex or multiplex configurations, with independent capacity adjustment for each pumphead.

All drive parts are fully enclosed and operate in an oil bath which minimizes friction and wear while providing protection from harsh environments. NIKKISO Milflo™ MX Series 5000 drives are all amplitude modulation design, eliminating lost motion and excess shock loads, while assuring longer pump life; and feature the new, patented technology of the X Crank for higher accuracy and efficiency.

A self-compensating hydraulic system assures automatic diaphragm position control and eliminates the need for troublesome vacuum breakers. Hydraulic valving removes any entrained air to maintain a tight hydraulic circuit and steady state accuracy.

The easy-to-read digital stroke length indication enables convenient capacity adjustment between 0.0 and 100.0% while the pump is operating or stopped. In addition to manual control, the pump can be supplied with optional automatic capacity control, making it possible for the pump to control the flow rate in proportion to various process signals. A simple, externally adjustable, internal hydraulic relief valve protects the pump and the process from pump induced overpressure situations.

*Simplex capacities shown. Multiply for multiplex pumps.

| Custom Features | Accessories |
|-----------------------------------|--|
| Alternate Diaphragm Materials | NIKKISO HydroChek™ Calibration Columns |
| API 675 & HI Standards Compliant | NIKKISO HydroDamp® Pulsation Dampeners |
| Automatic Capacity Control | NIKKISO HydroDrive™ VSD's and Motor Controls |
| Sanitary Liquid End | NIKKISO HydroGarD® Back Pressure Valves |
| Double Diaphragm Liquid Ends | NIKKISO HydroGarD® Safety Relief Valves |
| Diaphragm Status Indication | NIKKISO HydroInjex™ Injection Assemblies |
| Liquid End Jacketing | NIKKISO HydroMix™ Agitators |
| Liquid Piston - Remote Liquid End | NIKKISO HydroTank® Liquid Handling Packages |

| Component | Materials of Construction | | | | |
|---------------------|---------------------------|----------|--------------|---------|---------|
| Pumphead | 316SS | Alloy 20 | Hastelloy® C | PVC | Special |
| Check Valve Body | 316SS | Alloy 20 | Hastelloy® C | PVC | Special |
| Check Valve Seat | 316SS | Alloy 20 | Hastelloy® C | PVC | Special |
| Check Valve Element | 316SS | Alloy 20 | Hastelloy® C | Ceramic | Special |
| Diaphragm | PTFE | PTFE | PTFE | PTFE | Special |
| O-Rings | PTFE | PTFE | PTFE | FKM | Special |

TYPICAL CONFIGURATION:

