MECHANICAL METERING PUMPS

METERING MADE SIMPLE.
BLACKLINE DELIVERS RELIABLE AND STEADY PERFORMANCE OVER TIME.

The Blackline Series MD is a motor driven, spring return mechanical diaphragm metering pump for precise and accurate metering control. With many standard features, the Series MD includes oil lubricated ball bearings, guided check valves, and a reinforced pump head design.

Optional control features bring simplified operation to advanced remote control technologies.

BLACKLINE for precise and accurate metering control
EVERY ASPECT ENGINEERED
FOR UNRIVALLED PERFORMANCE

WIDE OPERATING RANGE
- Max Output: 7 - 132 GPH
- Pressure: 150 PSI
- Viscosity: 1000 CPS
- Turn Down: 500:1
- Capacity Range: 0.014 - 132 GPH
- Materials: PP, PVDF, 316 SS

LIQUID END
Diaphragm designed for 20,000 hours of duty with an integrated safety ring. The flat surface delivers plunger like performance. Increased reagent head bolts for superior sealing performance.

RUGGED CONSTRUCTION
Oil bath design keeps internals lubricated to maximize pump life. Oversized spring return maximizes suction lift capacity even with high viscosity fluid. Worm drive transfers motor rotational energy efficiently and quietly.

CORROSION RESISTANT ALUMINUM CASING
- Improved corrosion resistance against aggressive fumes
- Extends pump life and lowers life-cycle cost

PUMP HEAD
- Combination of PVDF pump head, PTFE seats and PYREX check valves provides broad chemical compatibility
- Allows standardization on one configuration covering multiple liquids and applications
- REINFORCED PUMP HEAD
  - Reliable and effective sealing during operation
  - 8 to 12 bolts depending on head
  - ATEX rated to more than 5 times safety factor

MOTOR
- IEC 71, 56C, 3 phase, 50/60Hz, options available
- Promotes standardization and enables immediate motor availability on site

VALVES
- NPT thread allows easy simple connection to pipeline
- Reduces cost and time of installation and maintenance
- DOUBLE CHECK VALVES
  - Standard on models with flowrates up to 14 gph (53 lph)
  - Increased accuracy when operating at low flow
  - Greater flexibility of applications

3 PIECE THREADED CONNECTOR (PP MODELS)
- Allows standardization on one configuration covering multiple liquids and applications
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GO WITH THE PRO

BLACKLINE PRO

Don’t settle for a less than complete water dosing system.

Designed to suit critical applications. Solid construction and comprehensive control interface provides ease-of-process management. The Blackline Pro includes all of the modes of operations and connections for any application interfacing with PLC’s and SCADA systems. Pulsafeeder’s new flexible solution for remotely controlling the speed and operation of Blackline metering pumps combines advanced technology with easy to use programming.

DESIGNED CONTROL SOLUTIONS BY EXPERTS IN DOSING AND PRECISE CHEMICAL FEED SYSTEMS.

The Blackline Pro versatility puts it all together for industrial and municipal chemical feed processes. The Blackline pump with Blackline Pro controller will meet your input and output communication. Blackline Pro integrated with our Pre-Engineered Systems provide the solution you are looking for to meet your requirements for precisely dosing chemicals into your process.

Complete Your Water System
COMPLETE YOUR DOSING SYSTEM WITH BLACKLINE PRO

EASE OF USE
- Ergonomical display - Positioned at 45° angle, clear and easy to read
- Variable gearbox orientation 0-90°, allowing installation in tight and narrow spaces

SIMPLE
- User friendly “JDS” Jog dial selector for easy menu navigation

COLOR CODED DISPLAY
- Intuitive color code display provides visual alerts when the system is running, needs maintenance or a failure has occurred

VERSATILE
- Possible installation on all Blackline Series models
- Factory assembled on a Blackline pump or as a complete system
The Blackline Pro dosing chemical feed system from Pulsafeeder monitors pump performance and maintenance needs via existing plant control and management systems through a MODBUS connection on the controller.

**USB advantages:** USB port can be used to input pre-configured settings to make initial setup easy from one controller to the next.
Pulsafeeder’s Blackline Pro Pre-Engineered Systems are designed to provide complete chemical feed solutions for a wide range of metering applications. From stand alone pH control applications to full-featured, sodium hypochlorite disinfection metering. These rugged fabricated assemblies offer installation simplicity and industrial-grade durability.

**PRE-CONFIGURED SYSTEM**
- Single or dual metering pump configurations
- Includes inlet and discharge piping assemblies available in both 1/2” and 1” sizes
- UV-stabilized, high grade HDPE frame offers maximum chemical compatibility and structural rigidity
- Schedule 80 PVC, CPVC, or UHP PVDF piping
- Factory assembled and hydostatically tested prior to shipment

**EASY**
- Easy to install and operate
- All of the most common metering pump accessories are included
  ◊ Ball valves and unions throughout
  ◊ Suction side: Y-strainers and calibration columns
  ◊ Discharge side: pulsation dampeners, pressure gauges with isolators, and discrete back pressure and pressure-relief valves

**QUICK DELIVERY**
- Available within two weeks of order

**MOUNTING**
- The rigid 1/2” frame incorporates mounting holes and brackets for anchoring to the floor

**INSTALL AND CONNECT**
Eliminates the need to mix and match components for both Blackline Pro controller and Pre-Engineered custom chemical feed solutions
### MODELS

#### Blackline Pro Controller

<table>
<thead>
<tr>
<th>Model Number</th>
<th>Description</th>
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</thead>
<tbody>
<tr>
<td>BLPRO-KIT</td>
<td>Blackline Pro Controller</td>
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</tbody>
</table>

#### DIMENSIONS

- **Pressure (PSI)**: 7 to 150
- **Flow (GPH)**: 7 to 132

#### PERFORMANCE RANGE

- **Blackline Pro with Blackline Pump - 1/2" NPT Connections**
  - **Model Number**: 7 GPH (26 LPH) @ 150 PSI (10 BAR), 86 SPM
  - **Head**: MD1AKTPN2B-XXX
  - **Seats**: PVDF
  - **Ball**: PTFE
  - **Material**: Pyrex

- **Model Number**: 14 GPH (53 LPH) @ 150 PSI (10 BAR), 84 SPM
  - **Head**: MD1BKTPN2B-XXX
  - **Seats**: PVDF
  - **Ball**: PTFE
  - **Material**: Pyrex

- **Model Number**: 22 GPH (82 LPH) @ 150 PSI (10 BAR), 84 SPM
  - **Head**: MD1CKTPN2B-XXX
  - **Seats**: PVDF
  - **Ball**: PTFE
  - **Material**: Pyrex

- **Model Number**: 29 GPH (111 LPH) @ 150 PSI (10 BAR), 116 SPM
  - **Head**: MD1DKTPN2B-XXX
  - **Seats**: PVDF
  - **Ball**: PTFE
  - **Material**: Pyrex

- **Model Number**: 35 GPH (133 LPH) @ 150 PSI (10 BAR), 138 SPM
  - **Head**: MD1EKTPN2B-XXX
  - **Seats**: PVDF
  - **Ball**: PTFE
  - **Material**: Pyrex

- **Blackline Pro with Blackline Pump - 3/4" NPT Connections**
  - **Model Number**: 59 GPH (225 LPH) @ 90 PSI (6 BAR), 84 SPM
  - **Head**: MD2FPTPN2B-XXX
  - **Seats**: GFPL
  - **Ball**: PVC
  - **Material**: Pyrex

- **Model Number**: 79 GPH (298 LPH) @ 90 PSI (6 BAR), 118 SPM
  - **Head**: MD2JKTPN2B-XXX
  - **Seats**: GFPL
  - **Ball**: PVC
  - **Material**: Pyrex

- **Model Number**: 98 GPH (371 LPH) @ 75 PSI (5 BAR), 138 SPM
  - **Head**: MD2KKTPN2B-XXX
  - **Seats**: GFPL
  - **Ball**: PVC
  - **Material**: Pyrex

- **Blackline Pro with Blackline Pump - 1" NPT Connections**
  - **Model Number**: 132 GPH (501 LPH) @ 75 PSI (5 BAR), 118 SPM
  - **Head**: MD3GKTPN2B-XXX
  - **Seats**: GFPL
  - **Ball**: PVC
  - **Material**: Pyrex

1. All models Motor: TEFC, NEMA 56C, 3P 230/460V, 50/60 Hz, 1/2 Hp

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**PULSAFEEDER**

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PULSATRON.COM

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