

# blackline orc

## **MECHANICAL METERING PUMPS**

METERING MADE SIMPLE.

## QUALITY PRODUCTS, TRUSTED SOLUTIONS BLACKLINE WITH BLACKLINE PRO

# Pulsafeeder simplifies advanced pump technology.

The Blackline Series MD has been specifically designed to bring **outstanding value** to your operations by delivering **reliable and precise metering performance over time.** The Blackline by Pulsafeeder offers a portfolio of mechanical diaphragm pumps to fulfill a vast range of applications from water & wastewater, pulp & paper, mining, industrial processes, and many more.

Demanding applications require outstanding design and **dependable performance**. Blackline Series is your best choice with a **long-life, rugged, double-sided PTFE faced diaphragm, corrosion resistant aluminum casing, and a vast range of liquid end <b>materials** to choose from for any application.



### **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 UNRIVALED 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. Over sized 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**

#### **PVDF 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, 60 Hz, 50/60Hz, options available Promotes standardization and enables immediate motor availability on site

## VALVES

### **3 PIECE THREADED CONNECTOR (PP MODELS)**

- NPT thread allows easy and 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

# GO WITH THE PRO BLACKLINE PRO

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

Designed to suit the most critical applications with **solid construction** and a **comprehensive control interface providing ease-of-process management.** The Blackline Pro includes all of the application specific programming for any application eliminating the need for expensive custom-built PLCs'.

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 PRE-FABRICATED BY EXPERTS IN WATER SYSTEMS.

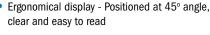
The Blackline Pro versatility puts it all together for municipal water treaters, either as **Blackline pump**, **Blackline pump with Blackline Pro controller** or configured **complete with pre-plumbed inlet and discharge piping assemblies customized to your pre-engineered system needs.** 

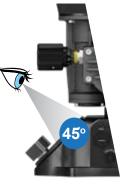
**Complete Your Water System** 

## **COMPLETE YOUR DOSING SYSTEM** WITH BLACKLINE PRO



### EASE OF USE





 Variable gearbox orientation 0-90°, allowing installation in tight and narrow spaces



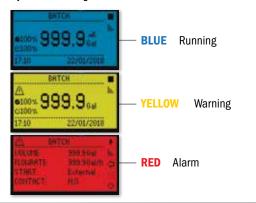
### SIMPLE

 User friendly "JDS" Jog dial selector for easy menu navigation



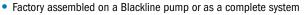
**COLOR CODED DISPLAY** 

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



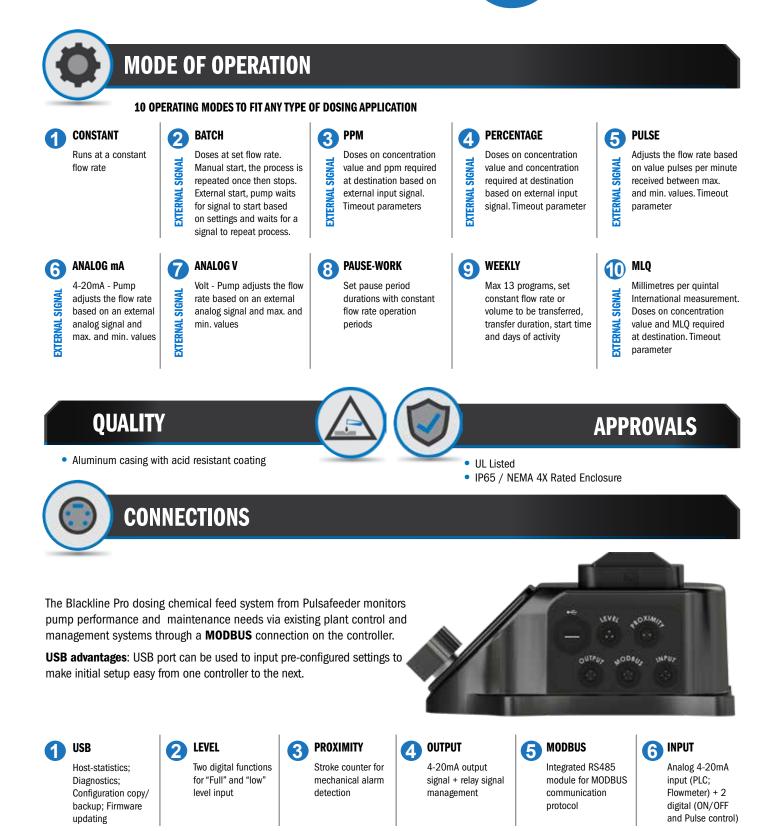
### VERSATILE

Possible installation on all Blackline Series models





# blacklineorc



# **GET INSTALLATION EASE ALONG** WITH THE MOST COMPLETE CHEMICAL SYSTEM AVAILABLE

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
- Sall 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

		Blackline Pr	o Controller				
		Model Number	Description				
		BLPRO-KIT	Blackline Pro Co	ontroller			
Blackline Pro with	Blackline P	Pump - 1/2" NP	T Connections	<b>Blackline Pro with</b>	Blackline Pu	ımp - 3/4" NI	PT Connect
Model Number <sup>1</sup>	Head	Seats	Ball	Model Number <sup>1</sup>	Head	Seats	Ball
7 GPH (26 LPH) @ 15	0 PSI (10 BAF	R), 86 SPM		59 GPH (225 LPH) @	90 PSI (6 BAR)	, 84 SPM	
MD1AKTPN2B-XXX	PVDF	PTFE	Pyrex	MD2FKTPN2B-XXX	PVDF	PTFE	Pyrex
MD1APPPN2B-XXX	GFPPL	PVC	Pyrex	MD2FPPPN2B-XXX	GFPPL	PVC	Pyrex
MD1AAASN2B-XXX	316 SS	316 SS	316 SS	MD2FAASN2B-XXX	316 SS	316 SS	316 SS
L4 GPH (53 LPH) @ 1	50 PSI (10 BA	AR), 60 SPM		79 GPH (298 LPH) @	90 PSI (6 BAR)	, 118 SPM	
MD1BKTPN2B-XXX	PVDF	PTFE	Pyrex	MD2JKTPN2B-XXX	PVDF	PTFE	Pyrex
MD1BPPPN2B-XXX	GFPPL	PVC	Pyrex	MD2JPPPN2B-XXX	GFPPL	PVC	Pyrex
MD1BAASN2B-XXX	316 SS	316 SS	316 SS	MD2JAASN2B-XXX	316 SS	316 SS	316 SS
22 GPH (82 LPH) @ 1	50 PSI (10 BA	AR), 84 SPM		98 GPH (371 LPH) @	75 PSI (5 BAR)	, 138 SPM	
MD1CKTPN2B-XXX	PVDF	PTFE	Pyrex	MD2KKTPN2B-XXX	PVDF	PTFE	Pyrex
MD1CPPPN2B-XXX	GFPPL	PVC	Pyrex	MD2KPPPN2B-XXX	GFPPL	PVC	Pyrex
MD1CAASN2B-XXX	316 SS	316 SS	316 SS	MD2KAASN2B-XXX	316 SS	316 SS	316 SS
29 GPH (111 LPH) @	150 PSI (10 E	BAR), 116 SPM		Blackline Pro with	n Blackline Pi	ump - 1" NPT	Connectio
MD1DKTPN2B-XXX	PVDF	PTFE	Pyrex	Model Number <sup>1</sup>	Head	Seats	Ball
MD1DPPPN2B-XXX	GFPPL	PVC	Pyrex	132 GPH (501 LPH)			Buil
MD1DAASN2B-XXX	316 SS	316 SS	316 SS	MD3GKTPN2B-XXX	PVDF	PTFE	Pyrex
35 GPH (133 LPH) @		BAR), 138 SPM		MD3GPPPN2B-XXX	GFPPL	PVC	Pyrex
MD1EKTPN2B-XXX	PVDF	PTFE	Pyrex	MD3GAASN2B-XXX	316 SS	316 SS	316 SS
MD1EPPPN2B-XXX	GFPPL	PVC	Pyrex	1. All models Input Power/I			
MD1EAASN2B-XXX	316 SS	316 SS	316 SS			000, 01, 200, 1001	, 00/ 00 112, 1/ 1
						DIMENS	SIONS
PERFOR	MANCE	RANGE	E2		.65 in		
					1.21 in		
				Ll in			
-						₩	
						AII HES	
						1111 ==>	0.00.
-			-				6.00 in
							1

### 

27101 AIRPORT ROAD · PUNTA GORDA, FL 33982 PH: 941.575.3800 · FAX: 941.575.4085

PULSATRON.COM

all anala

AN ISO 9001 CERTIFIED COMPANY