



# BATTERY CARE PRODUCTS CATALOG

Single-Point Watering Systems

Battery Care Management Systems

Electrolyte Level Sensors



2023



## COMPANY INFORMATION



### Flow-Rite Headquarters

960 74th Street SW  
 Byron Center, MI 49315 USA  
 (616) 583-1700  
 customerservice@flow-rite.com



Made in USA



### Who We Are

Flow-Rite® has grown substantially over the past 40 years. From a humble start in 1981, to our impressive 105,000 sq. ft. state-of-the-art manufacturing facility, we continue to see many opportunities for growth. As a vertically integrated company, we design, manufacture and market fluid control devices for lead-acid batteries, recreational fishing boats, and hydroponics.

### Manufacturing Excellence

Our products are solely our own proprietary developments protected by over 50 U.S. patents and hundreds of international patents. Our mold-making shop and robotic state-of-the-art plastic injection molding operation in Byron Center, Michigan, allows us to operate this department “lights out” 24/7. Through this automation we can meet our growing volume requirements while delivering the best performing, highest quality products. This means our “Made in the U.S.A.” label will continue to be the way we proudly work.

### Our Team

Our associates are the essence of who we are. Our team of dedicated, motivated, and disciplined individuals create exceptional products and outstanding service for our customers. As an organization, we are committed to empowering each individual with the tools necessary to excel in their position.

### Giving Back

We are passionate about being stewards in our local community. We do this by participating in numerous volunteer opportunities with organizations like Habitat for Humanity, Ronald McDonald House, Feeding America, and more. Not only do we get to help others, but we also get to grow as a team through these experiences.



We are a niche manufacturing and solutions company.



One of the 101 Best and Brightest Companies to Work for in West Michigan for the past five consecutive years.



Niche: Water. Done Differently.



Passion: Change Lives. Transform the World.

Follow us on social media:



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## ORDERING AND PROCESSES

For the fastest processing, please submit all orders in .pdf format. Purchase orders can be emailed to [orders@flow-rite.com](mailto:orders@flow-rite.com).

### Payment Terms

Flow-Rite accepts cash in advance, Visa, Mastercard, Discover, American Express or Net 30 days for companies with approved credit.

### International Freight Terms

EXW - Ex Works: Flow-Rite, Byron Center, MI, USA

### Domestic Freight Terms

FOB Origin

### Shipping

Flow-Rite's preferred shipping method is via FedEx. If an alternate shipper is required by the customer, you will need to provide the billing account number at the time the order is placed.

Stocked items are available for same day shipping provided purchase orders are received prior to the requested freight carriers cut off time. Non-stocked items that are built to order have a typical lead time of 2-5 business days. Actual lead times vary based on order volume. For specific questions, please contact your sales manager or customer service.

[customerservice@flow-rite.com](mailto:customerservice@flow-rite.com)

### Warranty Information

Flow-Rite is committed to designing, engineering, and manufacturing high quality products. We believe you will have a great experience with our products and if you do not, we want to make it right.

We have a 5 year warranty on Single Point Watering valves and a 1 year warranty on water supply and purchased components.

Please obtain an RMA (Return Merchandise Authorization) number from Flow-Rite prior to returning the product for warranty consideration. The Purchaser must ship any product covered under the warranty, along with the corresponding RMA number to:

Flow-Rite Controls, 960 74th St SW,  
Byron Center, MI 49315.

For full warranty information, visit [www.flow-rite.com](http://www.flow-rite.com) or submit an inquiry to [customerservice@flow-rite.com](mailto:customerservice@flow-rite.com)

### Returns

- Flow-Rite is happy to provide a full refund for parts returned in new condition within 30 days.
- There is a 15% restocking fee for parts returned in new condition after 30 days.
- Products with a date code will be eligible for return up to 90 days. Products without a date code, in new condition, will be eligible for return past 90 days if they are current and saleable. Non-current production items will be eligible for return at Flow-Rite's discretion.
- Used items and valves that have been exposed to acid will not be eligible for return.



## Single Point Watering (SPW) System Operating Requirements

<b>Flow Rate:</b>	2.0 - 5.0 gallons per minute* 7.6 - 19.0 liters per minute
<b>Pressure Range:</b>	3.0 - 35.0 PSI (no flow, static) .21 - 2.4 bar
<b>Temperature Range:</b>	Freezing - 150° F Freezing - 65.5° C

## Water Supply Operating Requirements

<b>Inlet Pressure Range:</b>	40 - 100 PSI (no flow, static)
<b>Temperature Range:</b>	33 - 150° F 1 - 65.5° C

All product specifications and requirements should be met for proper operation of your Flow-Rite SPW system. Contact your battery supplier or Flow-Rite if you have any questions regarding product specifications or how to verify a water supply.

*\*Flow rate should be measured at the end of a purger (female/male coupler combination).*

# MAVERICK™

UNCONVENTIONAL INNOVATION



MAVERICK

Engineered specifically to optimize your applications, enhancing both financial and productivity advantages for you and your company.

## THE NEW OPPORTUNITY CHARGE VALVE

Introducing the superior battery watering component for opportunity charging, the new Maverick Valve from Flow-Rite. Acid-, temperature- and impact-resistant, it's made from the same premium polypropylene plastic as is used in batteries.

**Unique Design | Completely Re-engineered**



**Verified Testing | 5-Year Warranty**



**Fast & Simple Installation**



### **Acid-Resistant Materials**

All Maverick valve components, including the tubing, are acid, temperature, and impact resistant to withstand the harsh environment found inside and on top of the battery.



### **3-Port Swivel Tee**

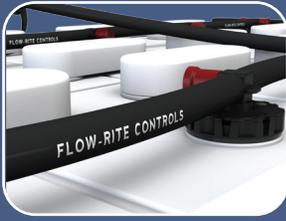
The 3-port swivel tee rotates a full 360 degrees, allowing for a more versatile installation. This eliminates kinked tubing and the need for additional plumbing pieces. The swivel also integrates an easy-in, hard-out, design to protect the O-ring.



### **Date Code**

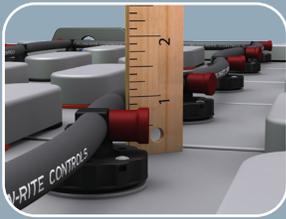
Each valve is laser etched with the shift, day, month, and year to ensure quality. All products are made in the U.S.A. by Flow-Rite Controls, an ISO 9001 company.

## MAVERICK PART NUMBERS & FEATURES



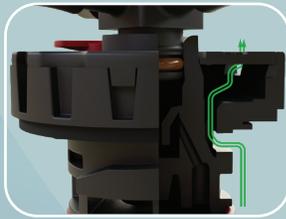
### Clampless Tubing

Clampless tubing installs in half the time of tubing that requires clamps and holds twice as well. Unlike clear PVC tubing, our tubing will not break down and cause system failure.



### Low Profile

The low profile design keeps all components of the watering system out of harms way by making sure that they all sit below the intercell connectors.



### De-Gas Chamber

The Maverick valve has a built in de-gassing chamber (similar to the factory vent caps) which allows the cell to expel the naturally occurring hydrogen and oxygen gases. The valve seen here disperses the gases in a manner which dilutes them with the outside air, reducing the risk of ignition.

Maverick Valves	
Part Number	Description
BK-1G0-V00-512	12 cell kit
BK-1G0-V00-518	18 cell kit
BK-1G0-V00-524	24 cell kit
BA-G15-V0-6P	6 pack, Maverick Valve
BA-MMP-1V3-G	Master Pack

**Maverick Compatibility & Battery Cross Reference Chart Can Be Found On Page 10.**

# Millennium

Single Point  
Watering System

# EVO™

## Industrial Battery Watering Applications



AGVs



Fork Lifts



Locomotives



Powered  
Pallet Jacks



Scrubbers  
& Sweepers



Standby  
Power

## Millennium Evo Overview

Millennium Evo™ is the most innovative, advanced, versatile, and user friendly single point watering system on the market today. With advanced materials and precise molding capabilities, Millennium Evo is Flow-Rite's most robust and best performing valve to date. At a glance, you can see many of the superior features listed below. What's more impressive is the structure inside the valve allows the Millennium Evo valve to work with a variety of water supply options.



### Maximum Venting

Raised vents provide more room inside the cell for fluid expansion

### Protective Shroud

\*\* Not available on all valve configurations



### 3-Port Swivel Tee

The 3-port swivel tee rotates a full 360 degrees, allowing for a more versatile installation. This eliminates kinked tubing and the need for additional plumbing pieces. The swivel also integrates an easy-in, hard-out, design to protect the O-ring.



### Date Code

Each valve is laser etched with the shift, day, month, and year to ensure quality. All products are made in the U.S.A. by Flow-Rite Controls, an ISO 9001 company. Please visit [www.flow-rite.com](http://www.flow-rite.com) for complete warranty details.



### Color Coded Flip Top Cell Access

The flip top access port gives direct cell access without the need for drilling cell covers or removing the watering system. Color coding allows for easy verification of valve length after the valves have been installed.



### Protective Shroud

The shroud protects the internal displacer from potential damage during installation, shipping/handling, and potential plate growth. When installed, it protects the valve from foreign particles (in the battery) entering and clogging the watering system.



### Optical Level Indicator

Check your electrolyte levels without having to remove your watering system. The built-in indicator is white when the cell is low on water and black when full. Since it operates independently from the valve, it is the only built-in indicator on the market that can truly be used to accurately verify cell electrolyte levels.

## Millennium Evo



### Acid-Resistant Components

All Millennium Evo components, including the tubing, are acid, temperature, and impact resistant to withstand the harsh environment found inside and on top of the battery. Recyclable along with battery, helping increase sustainability.



### Flame Arrester (optional)

The Millennium Evo's optional flame arrester is an ideal safety feature for all stationary batteries, utility vehicle batteries, and other batteries used in potentially dangerous enclosed environments. When choosing this option, the flame arrester helps protect against flame propagation. Flow-Rite's flame arrestors have passed the SAE J1495 test procedure.



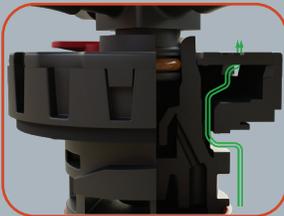
### Clampless Tubing

Clampless tubing installs in half the time of tubing that requires clamps and holds twice as well. Unlike clear PVC tubing, our tubing will not break down and cause system failure.



### Low Profile

The low profile design keeps all components of the watering system out of harms way by making sure that they all sit below the intercell connectors.



### De-Gas Chamber

The Millennium Evo valve has a built in de-gassing chamber (similar to the factory vent caps) which allows the cell to expel the naturally occurring hydrogen and oxygen gases. The valve seen here disperses the gases in a manner which dilutes them with the outside air, reducing the risk of ignition.



### Wide Pressure Range

Millennium's patented technology eliminates the need to buy expensive water supplies to generate high pressure and flow. Our variable pressure system will work from 3 to 35 PSI, with minimum flow rate of 2 GPM (measured through the purger). Flow-Rite offers the most complete range of water supplies including regulated hose supplies, AC/DC powered carts, portable units, gravity tanks, deionizers, and hand pumps.

## Battery Cross Reference Chart

Note: It is the distributor's responsibility to determine the correct valve length. The following information is provided as a guide only. If you are uncertain which to use, we strongly recommend measuring the cell depth. This chart is accurate as of printing but batteries are subject to change.

Battery Brand	Model #	Valve Length	Maverick Compatible	Cap Style
Battery Builders	All	Black	TBD	Bayonet
Bulldog	All	Black	TBD	Bayonet
Crown	85S, 105MX	Black	●	Bayonet
Crown	125S, 145MX	Black		Bayonet
Deka	D-Series, MaxPower(All)	Orange	●	Bayonet
Douglas	All	Black		35P
EnerSys	E55L, E75L, E85, E90, E100, E110, E100X, 55GL, 75GL, 75G, 85G, 85P, 100G, 100P	Black		Bayonet
EnerSys	E140, E140X, E155, 130A, E85D, E90D, E100D, E125, E125D, 125G, 125P	Red		Bayonet
EnerSys	E85, E90, E100, E100X, 85G, 85P, 100G, 100P, E140, E140X, E155, 130A, E85D, E90D, E100D, E125, E125D, 125G, 125P	Maverick	●	Bayonet
Eternity Technologies	E95, E135, E90, E125	White		Bayonet
Eternity Technologies	EC105, EC150, E100, E140	Black		Bayonet
GNB	Flat Plate, Liberator, and Tubular	GNB	TBD	Bayonet
Hawker	All	Black	●	Bayonet
Hup	100P	Black	●	Bayonet
Hup	125P	Red		Bayonet
Hup	85P	Red		Bayonet
Interstate Powercare	All	Black		Bayonet
Powerflow	All	Black		Bayonet
Railroad / Stationary	Locomotive Starting Batteries and Some Stationary	XL Black	●	Winged Bayonet
Reaco	All	Black	●	Bayonet
Sunlight	90 AQ, 100 AQ, 140 EC	Orange		Bayonet
Sunlight	125 AQ,	Red	✱	Bayonet
Sunlight	100 EC	Yellow		Bayonet
Sunlight	PzB55, PzS60, PzB65, PzS80	Black	✱	35P
Sunlight	PzS90, PzS105, PzS115, PzS125, PzB75, PzB85, PzB100, PzB105	Red	✱	35P
Sunlight	PzS140, PzS150	White		35P
Triathlon	90TA, 125TA	White		Bayonet
Triathlon	100TE, 140TE	Black		Bayonet

Please contact customer support for batteries containing plate protectors.

● = Maverick compatible

✱ = Maverick compatible; kit upon request

## Pre-Cut Clampless Kits

### CONTENTS



**Millennium  
Evo Valve**  
Qty = 1 per cell



**Coupler with  
Dust Cover\***  
Qty = 1 per kit up  
to 24 cells, 2 per  
kit after 36 cells



**Clampless Tubing**  
Qty = 5 precut  
sections per 6 cells  
(plus 1 feed tube)



**Quick Start Guide**  
included with each kit



**Red End Caps**  
Qty = 9 per 6 cells



**Spanner Tool**  
*Note: Not included  
with 35P kits.*

\* When shipped, the feed tube and row connector tubing is attached to the coupler.

Bayonet Kits					
Size	Black	Orange	Red	White	GNB
6 Cell	BK-1C0-201-506	BK-1C0-901-506	BK-1C0-301-506	BK-1C0-401-506	BK-1C0-G00-506
9 Cell	BK-1C0-201-509	BK-1C0-901-509	BK-1C0-301-509	BK-1C0-401-509	BK-1C0-G00-509
12 Cell	BK-1C0-201-512	BK-1C0-901-512	BK-1C0-301-512	BK-1C0-401-512	BK-1C0-G00-512
18 Cell	BK-1C0-201-518	BK-1C0-901-518	BK-1C0-301-518	BK-1C0-401-518	BK-1C0-G00-518
20 Cell	BK-1C0-201-520	BK-1C0-901-520	BK-1C0-301-520	BK-1C0-401-520	BK-1C0-G00-520
24 Cell	BK-1C0-201-524	BK-1C0-901-524	BK-1C0-301-524	BK-1C0-401-524	BK-1C0-G00-524
36 Cell	BK-1C0-201-536	BK-1C0-901-536	BK-1C0-301-536	BK-1C0-401-536	BK-1C0-G00-536
40 Cell	BK-1C0-201-540	BK-1C0-901-540	BK-1C0-301-540	BK-1C0-401-540	BK-1C0-G00-540

35P (DIN) Kits				
Size	Black	Orange	Red	White
6 Cell	BK-2C0-201-506	-	BK-2C0-301-506	BK-2C0-401-506
9 Cell	BK-2C0-201-509	-	BK-2C0-301-509	BK-2C0-401-509
12 Cell	BK-2C0-201-512	BK-2C0-901-512	BK-2C0-301-512	BK-2C0-401-512
18 Cell	BK-2C0-201-518	BK-2C0-901-518	BK-2C0-301-518	BK-2C0-401-518
20 Cell	BK-2C0-201-520	-	BK-2C0-301-520	BK-2C0-401-520
24 Cell	BK-2C0-201-524	BK-2C0-901-524	BK-2C0-301-524	BK-2C0-401-524
36 Cell	BK-2C0-201-536	-	BK-2C0-301-536	BK-2C0-401-536
40 Cell	BK-2C0-201-540	-	BK-2C0-301-540	BK-2C0-401-540

## Clampless Preassembled Kits

### CONTENTS



**Millennium Evo Valve**  
Qty = 1 per cell



**Coupler with Dust Cover\***  
Qty = 1 per kit up to 24 cells, 2 per kit after 36 cells



**6 Swivel Clampless Tubing Section**  
Qty = 1 per 6 cells (plus 1 feed tube)



**Red End Caps**  
Qty = 9 per 6 cells



**Spanner Tool**  
Qty = 1 per kit  
Note: Not included with 35P kits



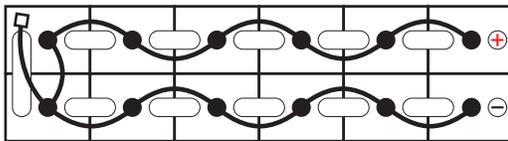
**Instruction Manual**  
included with each kit

\* When shipped, the feed tube and row connector tubing is attached to the coupler.

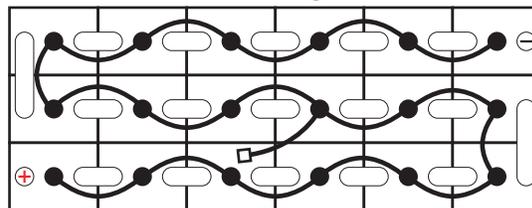
6.75" / Bayonet Valves (5-15 plate single post batteries, tubing is routed around the intercell connectors)						
Size	Black	Orange	Red	White	GNB	35p Black
6 Cell	BK-1CC-201-506	BK-1CC-901-506	BK-1CC-301-506	BK-1CC-401-506	BK-1CC-G00-506	BK-2CC-201-506
12 Cell	BK-1CC-201-512	BK-1CC-901-512	BK-1CC-301-512	BK-1CC-401-512	BK-1CC-G00-512	BK-2CC-201-512
18 Cell	BK-1CC-201-518	BK-1CC-901-518	BK-1CC-301-518	BK-1CC-401-518	BK-1CC-G00-518	BK-2CC-201-518
24 Cell	BK-1CC-201-524	BK-1CC-901-524	BK-1CC-301-524	BK-1CC-401-524	BK-1CC-G00-524	BK-2CC-201-524

### 6.75" LAYOUTS

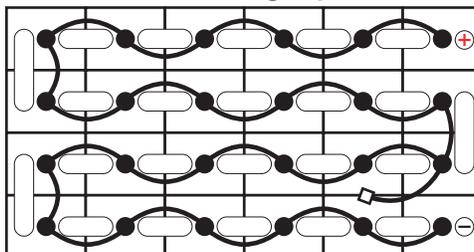
12 cell single post



18 cell single post



24 cell single post

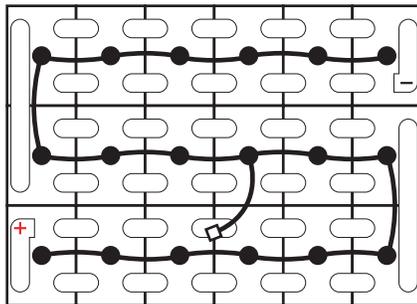


## Layout Diagrams

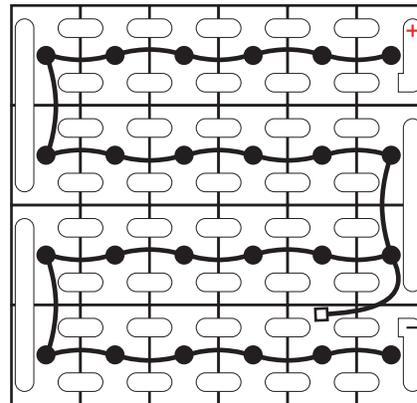
6" / Bayonet Valves (17-29 plate double post batteries, tubing is routed in-between intercell connectors)						
Size	Black	Orange	Red	White	GNB	35p Black
18 Cell	BK-1CB-201-518	BK-1CB-901-518	BK-1CB-301-518	BK-1CB-401-518	BK-1CB-G00-518	BK-2CB-201-518
24 Cell	BK-1CB-201-524	BK-1CB-901-524	BK-1CB-301-524	BK-1CB-401-524	BK-1CB-G00-524	BK-2CB-201-524

### 6" LAYOUTS

18 cell double post B



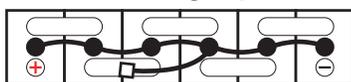
24 cell double post



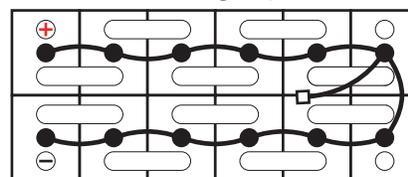
5.5" / Bayonet Valves (5-15 plate single post batteries, tubing is routed in-between intercell connectors)					
Size	Black	Red	White	GNB	35p Black
6 Cell	BK-1CA-201-506	BK-1CA-301-506	BK-1CA-401-506	BK-1CA-G00-506	BK-2CA-201-506
12 Cell	BK-1CA-201-512	BK-1CA-301-512	BK-1CA-401-512	BK-1CA-G00-512	BK-2CA-201-512

### 5.5" LAYOUTS

6 cell single post

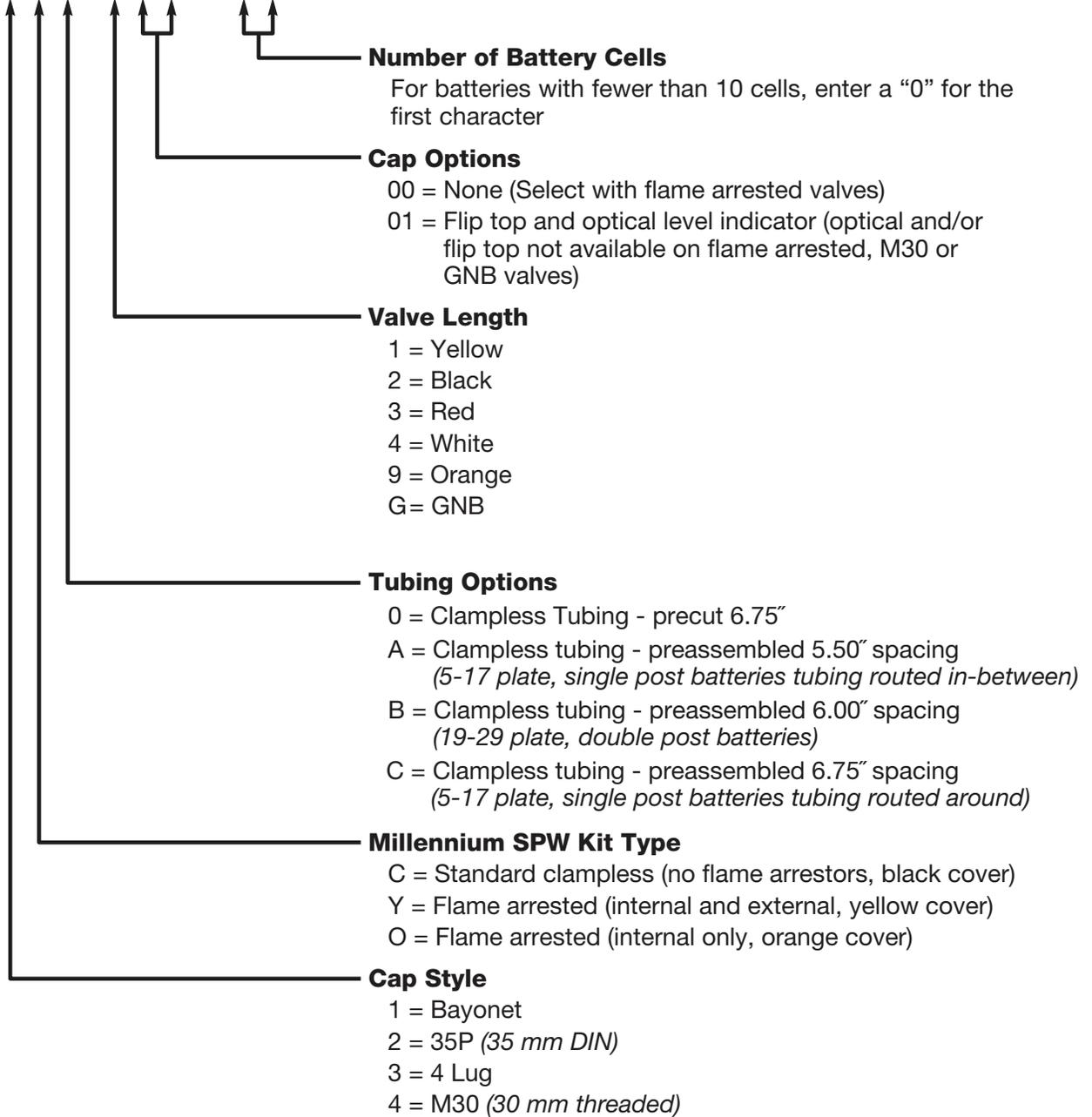


12 cell single post A



## Order Guide for Kits

BK - XXX - XXX - 5XX



# Master Packs

## CONTENTS



**Millennium Evo Valve**  
Qty = 60 per pack



**Clampless Tubing**  
Qty = 40  
(uncut tubing)



**Red End Caps**  
Red end cap for swivel tee  
Qty = 70



**Quick Start Guide**  
included with each master pack

Bayonet	
Bayonet cap, black length	BA-MMP-12-C
Bayonet cap, orange length	BA-MMP-19-C
Bayonet cap, red length	BA-MMP-13-C
Bayonet cap, white length	BA-MMP-14-C
Bayonet cap, GNB length	BA-MMP-1G-C (Does not include optical indicator)
Bayonet cap, maverick length	BA-MMP-1V3-G

35P (DIN)	
35P cap, black length	BA-MMP-22-C
35P cap, orange length	BA-MMP-29-C
35P cap, red length	BA-MMP-23-C
35P cap, white length	BA-MMP-24-C

## Clampless Replacement Valves

Only available in 6 packs. Includes red end caps.

Bayonet			
	Flip Top	Internal & External Flame Arrested	Internal Flame Arrested
			
	BA-C10-11-6P (yellow) BA-C10-21-6P (black) BA-C10-91-6P (orange) BA-C10-31-6P (red) BA-C10-41-6P (white) BA-C15-G0-6P (GNB) BA-G15-V0-6P (maverick)	BA-Y10-10-6P (yellow) BA-Y10-20-6P (black) BA-Y10-30-6P (red) BA-Y10-40-6P (white) BA-Y10-G0-6P (GNB)	BA-O10-10-6P (yellow) BA-O10-20-6P (black) BA-O10-30-6P (red) BA-O10-40-6P (white) BA-O15-G0-6P (GNB)

35P (DIN)			
	Flip Top	Internal & External Flame Arrested	Internal Flame Arrested
			
	BA-C20-11-6P (yellow) BA-C20-21-6P (black) BA-C20-31-6P (red) BA-C20-41-6P (white) BA-C20-91-6P (orange)	BA-Y20-10-6P (yellow) BA-Y20-20-6P (black) BA-Y20-30-6P (red) BA-Y20-40-6P (white)	BA-O20-10-6P (yellow) BA-O20-20-6P (black) BA-O20-30-6P (red) BA-O20-40-6P (white)

## Clampless Replacement Parts



**BA-QDV-505**  
Coupler for Millennium Evo, Pro-Fill 1/4" barb



**BA-QDV-805**  
Coupler for Philadelphia Scientific injector



**BA-QDV-405**  
Coupler for BWT 1/4" barb



**BA-142-10**  
Swivel tee with O-ring  
(Sold as a 10-Pack.)



**BD-00204-10**  
O-ring for BA-QDV-500 and BA-QDV-505 quick coupler (Sold as a 10-Pack.)



**BD-00525-10**  
Gasket for bayonet and M30 caps  
(Sold as a 10-Pack.)



**BD-T14**  
Tubing (sold by the foot)  
**BD-T14-500**  
500 foot roll



**BD-T14-100**  
Bulk pack of pre-cut tubing, each section is 6 3/4"

## Clampless Replacement Parts *(continued)*



**BD-00280-25**  
Red end cap for  
swivel tee.  
(Sold as Pack of 25)  
**BD-00280-100**  
(Sold as Pack of 100)



**BD-00871**  
4-prong spanner tool



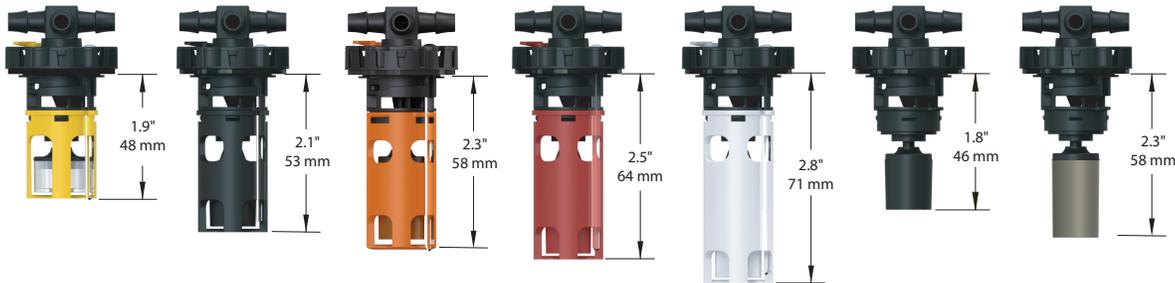
**BD-BRR**  
Universal battery refill  
record calendar



**BA-090**  
Battery Steward  
labels

## Valve Length Options

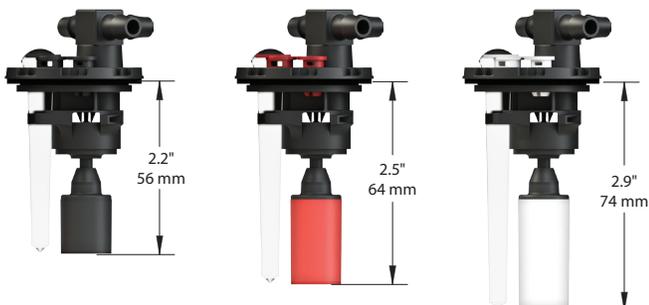
### BAYONET



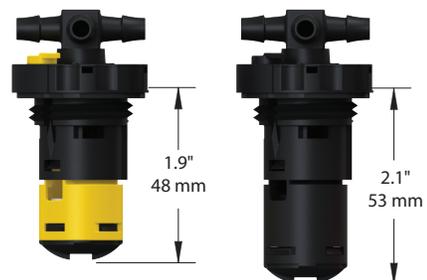
### 35P (DIN)



### 4 LUG



### M30



## Locomotive Battery Care

Maintaining the proper water level in your battery will keep it running efficiently and at a power level to meet the needs of a demanding locomotive environment. The Flow-Rite system consists of automatic shut-off valves, interconnected with tubing, that replace the existing vent caps. A quick coupling allows the system to be connected to a water supply. Once connected, water flows into each cell until it reaches the correct level. A flow indicator built into the water supply tells the operator when filling has been completed.



### Railroad Kits - Pre-Cut Tubing

Kit Size	Part Number	Description
4 cell	BK-7OS-K00-504	GNB/Surrette/East Penn
16 cell	BK-7OR-K00-516	GNB/Surrette/East Penn
16 cell	BK-7OR-M00-516	Moura Battery

### Railroad Kits - Un-Cut Tubing

16 cell	BK-7O9-K00-516	GNB/Surrette/East Penn
---------	----------------	------------------------



## LOCOMOTIVE BATTERY SPW APPROVED WATER SUPPLIES



**BA-MS-115**  
Portable watering cart

**BA-MS-116**  
Also available in rough terrain version.



**BA-MS-340**  
Deionizer, battery operated  
**BA-221**  
Replacement cartridge



**BA-MS-606**  
Portable water supply, 120V AC powered  
**BA-MS-612**  
Portable water supply, DC powered



**BA-013**  
Water supply converter



**BA-MS-320-20**  
Regulated hose supply w/ 20ft. hose  
**BA-MS-320-05**  
Regulated hose supply w/ 5ft. hose

# ProFill™

## Single Point Battery Watering System

### For All of Your Deep Cycle Battery Watering Needs



Golf Cars &  
Utility Vehicles



Powered  
Pallet Jacks



Scissor  
Lifts



Scrubbers  
& Sweepers



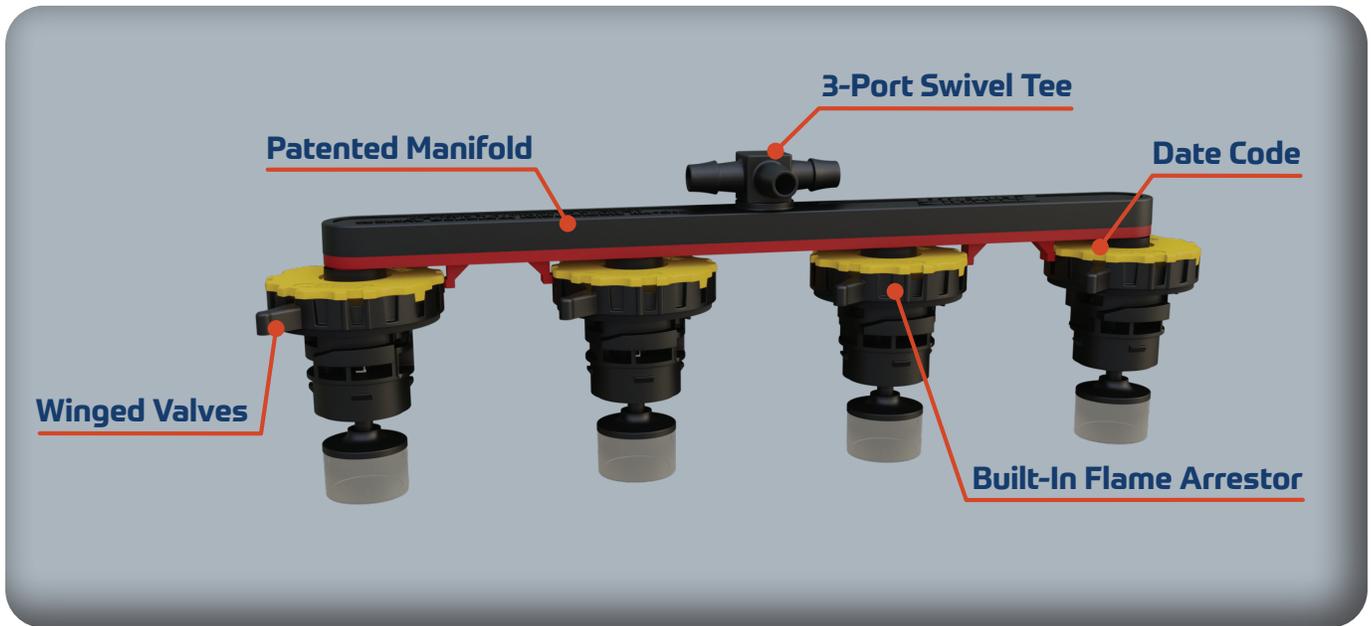
Standby  
Power



RVs

## Pro-Fill Overview

Pro-Fill® onboard battery watering systems are the only systems that have been specifically designed for golf car/utility vehicle applications. At a glance, many of the superior features are evident from the patented manifolds, standard flame arrestors, three port swivel, clampless or snake tubing, and the easy-install winged caps. Built in Pro-Fill flame arrestors protect against an outside spark or flame from entering the battery cell and prevent flame propagation to neighboring cells.



PRO-FILL



### Patented Manifold

Our patented manifold provides for the quickest and easiest installation.



### Winged Valves

This unique winged design provides the fastest, most secure connection to the battery.



### 3-Port Swivel Tee

Our 3-port swivel tee rotates a full 360 degrees, allowing for the most versatile installation. This eliminates kinked tubing and the need for additional plumbing pieces. The swivel also integrates an easy-in, hard-out, design to protect the O-ring.



### Date Code

Each valve is laser etched with the shift, day, month and year to ensure quality. All products are made in the U.S.A. by Flow-Rite Controls, an ISO 9001 company. Please visit [www.flow-rite.com](http://www.flow-rite.com) for complete warranty details.

## Pro-Fill Overview



### Flame Arrester

Approved by major battery manufacturers, Pro-Fill has this built-in flame arrester that is necessary for all applications such as golf car, utility vehicle, sweeper, scrubber, pallet jack, or anywhere batteries are used in an enclosed space or otherwise potentially dangerous environments.



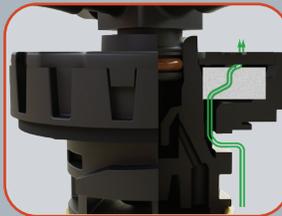
### Clampless Tubing

Our clampless tubing installs in half the time of clamp style tubing and holds twice as well. Unlike clear PVC tubing, our tubing will not break down and cause system failure.



### Snake Tubing

This tubing is an option when ordering Pro-Fill kits. Snap in segments are molded into the tubing making installation easy and efficient while eliminating the possibility of leaks. The tubing material is made to not break down when exposed to acidic environments.



### De-Gas Chamber

The Pro-Fill valve has a built-in de-gassing chamber (similar to the factory vent caps) which allows the cell to expel the naturally occurring hydrogen and oxygen gases. The standard cap seen here disperses the gases in a manner which dilutes them with the outside air, reducing the risk of ignition.



### Acid Resistant Components

Just like our predecessor systems, all Pro-Fill components are made of materials that are acid, temperature, and impact resistant.

## Pro-Fill Universal Kits

### CONTENTS



**Manifolds**

Kit Size	Qty of Manifolds
12 volt	2 (6 volt manifolds)
24 volt	4 (6 volt manifolds)
36 volt	6 (6 volt manifolds)
48 volt	8 (6 volt manifolds)
48 volt	6 (8 volt manifolds)



**Coupler with Dust Cover\***  
Qty = 1 per kit



**Clampless Tubing**  
Quantity varies with kit size



**Red End Caps**  
Qty = 9 per 6 cells



**Instruction Manual**  
included with each kit

\* When shipped, the feed tube and row connector tubing is attached to the coupler.

	Part Number	Description
<b>12 Volt Systems</b>	BG-U12V-1A	12 volt kit for (2) 6V batteries with 2.7 inch cell spacing, rigid manifold
	BG-U12V-1K	12 volt kit for (1) 12V Crown battery with 2.7 inch cell spacing, rigid manifold
	BG-U12V-4A	12 volt kit for (2) 6V batteries with non standard spacing, no manifold
	BG-U12V-7A	12 volt kit for (2) 6V batteries with non standard spacing, flexible manifold

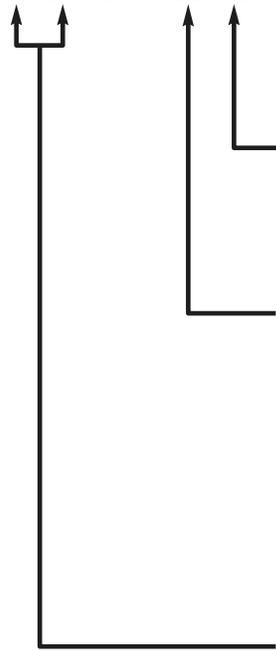
	Part Number	Description
<b>24 Volt Systems</b>	BG-U24V-1A	24 volt kit for (4) 6V batteries with 2.7 inch cell spacing, rigid manifold
	BG-U24V-1K	24 volt kit for (2) 12V Crown battery with 2.7 inch cell spacing, rigid manifold
	BG-W24V-1	24 volt kit for pallet jack with (4) 6V batteries with 2.7 inch cell spacing
	BG-U24V-4A	24 volt kit for (4) 6V batteries with non standard spacing, no manifold
	BG-U24V-7A	24 volt kit for (4) 6V batteries with non standard spacing, flexible manifold
	BG-U24V-7J	24 volt kit for (4) 6V "Trojan Plus" series batteries, flexible manifold

	Part Number	Description
<b>36 Volt Systems</b>	BG-U36V-1A	36 volt kit for (6) 6V batteries with 2.7 inch cell spacing, rigid manifold
	BG-U36V-1K	36 volt kit for (3) 12V Crown battery with 2.7 inch cell spacing, rigid manifold
	BG-U36V-4A	36 volt kit for (6) 6V batteries with non standard spacing, no manifold
	BG-U36V-7A	36 volt kit for (6) 6V batteries with non standard spacing, flexible manifold
	BG-U36V-7J	36 volt kit for (6) 6V "Trojan Plus" series batteries, flexible manifold

	Part Number	Description
<b>48 Volt Systems</b>	BG-U48V-1A	48 volt kit for (8) 6V batteries with 2.7 inch cell spacing, rigid manifold
	BG-U48V-1K	48 volt kit for (4) 12V Crown battery with 2.7 inch cell spacing, rigid manifold
	BG-U48V-4A	48 volt kit for (8) 6V batteries with non standard spacing, no manifold
	BG-U48V-5A	48 volt kit for (6) 8V batteries with 2.3 inch cell spacing, rigid manifold
	BG-U48V-6A	48 volt kit for (6) 8V batteries with 2.5 inch cell spacing, rigid manifold
	BG-U48V-7A	48 volt kit for (8) 6V batteries with non standard spacing, flexible manifold
	BG-U48V-7J	48 volt kit for (8) 6V "Trojan Plus" series batteries, flexible manifold
	BG-U48V-8J	48 volt kit for (4) 12V "Trojan 1275 Plus" series batteries, flexible manifold
	BG-U48V-BA	48 volt kit for (6) 8V batteries with non standard spacing, flexible manifold

# Universal Pro-Fill Kits Part Number Scheme

**BG - U X X V - X X**



**SPW Valve Options**

- A = Winged bayonet
- J = Non-winged black bayonet, for use on Trojan Plus series
- K = For use on 12 volt Crown GC12 batteries only

**SPW Manifold Options**

- 1 = Blue 6V, 2.7" cell spacing
- 4 = No manifold
- 5 = Black 8V, 2.3" cell spacing
- 6 = Red 8V, 2.5" cell spacing
- 7 = Flex (BA-127-FLEX)
- 8 = Flex (BA-128-FLEX)
- B = Flex (BA-129-FLEX)
- C = Flex (BA-132-FLEX)

**Pack Voltage**

- 06 = 6V
- 12 = 12V
- 24 = 24V
- 36 = 36V
- 48 = 48V
- 72 = 72V

**BA-127-FLEX**

For 6V batteries with 2.6" to 3.5" spacing

**BA-128-FLEX**

For 12V batteries  
For use on Trojan Plus Series

**BA-129-FLEX**

For 8V batteries with 2.3" to 2.5" spacing

**BA-132-FLEX**

For 12V batteries with mini chevron cell layout

PRO-FILL

**Golf Car Layout (varies)**



For specific layout diagrams please visit our website using the QR code above.

**Pallet Jack Layout**



## Battery Cross Reference Chart

Note: Chart is accurate as of printing, but batteries may have changed.

6 Volt Batteries				
Battery Brand	Model #	Cell Spacing	Manifold (p/n code)	Valve Style (p/n code)
Canadian Energy	CPGC2-235	2.7	1	A
Continental	2GC-110	2.7	1	A
Crown	CR-205, CR-220, CR-235, CR-260	2.7	1	A
Deka (Pro Master)	GC25, GC12, GC10, GC45	2.7	1	A
Deka (Pro Master)	8L16	Varies	Swivel tee (4)	A
Duracell Ultra (Batteries Plus)	SLIGC110, SLIGC115, SLIGC125, SLIGC145UT	2.7	1	A
Energizer (Sam's Club)	GC2, EGC2	3.3	7	A
Interstate	GC2, GC2-ECL-UT	2.7	1	A
Interstate	Workaholic	Other	Swivel tee (4)	A
Rolls Surrette	S6 L16, S6 L16-HC, S6 L16-SC, S6 L16-EX, 6 FS L16, 6 FS L16-HC, S6 GC2, S6 GC2-HC, S6 145, 6 FS 145, 6FS GC, 6FS GC-HC, 6FS GC-SC, 6 FS 250-SC, S6 305, 6 FS 305-HC, 6 FS 305-SC	2.7	1	A
Rolls Surrette	S6 250	Other	4	A
Trojan	T105, T125, T145, T605	2.7	1	A
Trojan	J250P, J305H-AC, J305P-AC, L16P, T105+, T125+, T145+, L16P-AC, SPRE 12 225, SPRE 06 255, DC-500ML, J18SP-AC, 18DC-500ML, J150+	Other	7	J
U.S. Battery	1800 XC2, 2000 XC2, 2200 XC2, 125 XC2, 145 XC2, 250E XC2, 250 XC2, 250HC XC2, 305E XC2, 305 XC2, 305HC XC2, L16E XC2, L16 XC2, L16HC XC2	2.7	1	A

8 Volt Batteries				
Battery Brand	Model #	Cell Spacing	Manifold (p/n code)	Valve Style (p/n code)
Centennial	Golf Car	2.5	6	A
Commander	C8VGC	2.5	6	A
Crown	CR-150, CR-165, CR-190 (Post-June 2022)	2.3	5	A
Crown (Legacy)	CR-150, CR-165, CR-190 (Pre-May 2022)	2.5	6	A
Deka	GC8V	2.5	6	A
Duracell Ultra (Batteries Plus)	GC8V	2.5	6	A
Energizer (Sam's Club)	GC8V	2.5	6	A
GNB	GC8V	2.5	6	A
Interstate	GC8-HLC-UTL	Other	B	A
Rocket, Longest	8190	Other	B	A
Rolls Surrette	8 FS GC, 8 FS GC-HC	2.5	6	A
Trojan	T-875	2.3	5	A
U.S. Battery	US 8VGC	2.5	6	A

12 Volt Batteries				
Battery Brand	Model #	Cell Spacing	Manifold (p/n code)	Valve Style (p/n code)
Continental	2GC-1275	2.7	1	A
Crown	CR-GC150, CR-GC155	2.7	1	K
Deka	GC12T	2.7	1	A
Deka	9C12	Other	C	A
Interstate	GC12	2.7	1	A
Rocket, Longest	12165 (Straight)	Other	8	J
Rocket, Longest	12165 (Chevron)	2.7	1	A
Rolls Surrette	S12 185, 12 FS 185-HC, 12 FS GC-HC, S12 GC	other	4	A
Trojan	1275, J185G	2.7	7 / 2 pcs.	J
Trojan	T-1260+, T-1275+, J150+, J185P, J185H, J185P-AC, J200	Other	8	J
U.S. Battery	12VE XC2, US 185 XC2, US 185E XC2, US 185HC XC2	2.7	1	A
U.S. Battery	12VRX XC2	Other	C	J

## Pro-Fill Parts

**A**



**BA-Y74-10**  
Pro-Fill valve, with wings

**J**



**BA-Y14-10**  
Pro-Fill valve, shroudless, clear displacer, no wings (for use on 12 volt Trojan® and Trojan Plus® batteries)

**K**



**BA-Y74-80**  
For use on 12 volt Crown GC12 batteries only



**BA-1FT-7A**  
2.7 inch center to center cell spacing, 6 volt (black & blue in color)



**BA-5FT-7A**  
2.3 inch center to center cell spacing, 8 volt (solid black in color)



**BA-6FT-7A** 2.5 inch center to center cell spacing, 8 volt (black & red in color)

**7**



**BA-127-FLEX**  
Flexible manifold, 2.6" - 3.5" spacing. Refer to the manifold column on page 22.

**8**



**BA-128-FLEX**  
Flexible manifold for use on 12 volt Trojan™ Plus batteries

**B**



**BA-129-FLEX**  
Flexible manifold, 2.3" - 2.5" spacing

**C**



**BA-132-FLEX**  
Flexible manifold for use on 12 volt U.S. Battery 12V-VRX batteries



**BD-T14**  
Clampless tubing (sold by the foot)



**BD-00525-10**  
Gasket for bayonet cap (Sold as a pack of 10)



**BD-00280-25**  
Swivel tee end caps (Sold as a pack of 25)  
**BD-00280-100**  
(Sold as a pack of 100)



**BA-142-10**  
Swivel tee with O-ring (Sold as a pack of 10)



**BA-QDV-505**  
Coupler

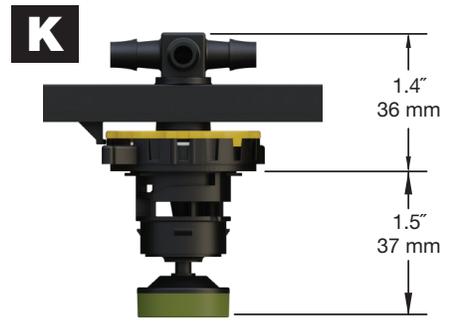
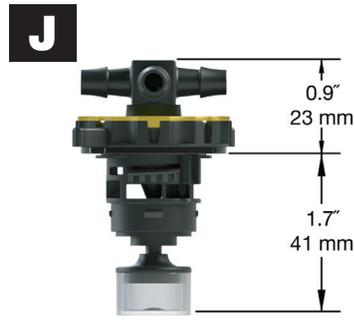
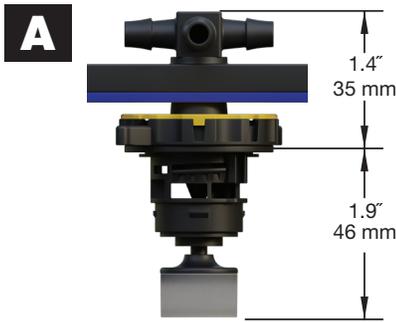


**SNK-F124**  
Coupler w/ snake adapter

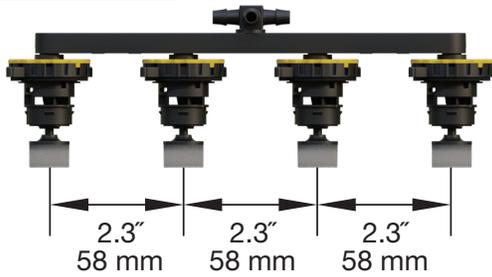


**Various Part Numbers**  
Snake tubing

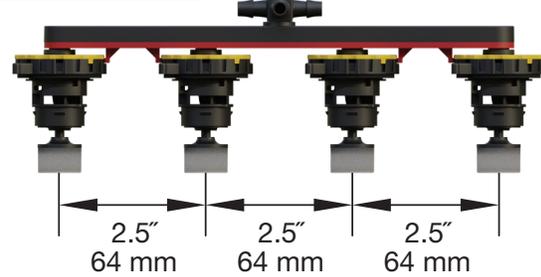
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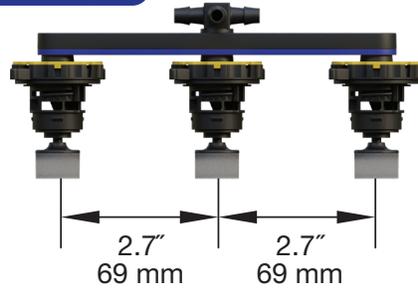
**Black Manifold**



**Red Manifold**



**Blue Manifold**



# Qwik-Fill™

Single Point Battery Watering System

# ProFill™

Single Point Battery Watering System **RV™**

## Battery Watering Kits for Boat and RV Batteries



Boats



RVs

## Qwik-Fill - Retail

Qwik-Fill™ on-board battery watering systems fit 12 volt marine deep cycle batteries group 24-27 and most group 29-31. Fill up to 3 batteries from a single remote location with simple hand pump operation.

*Qwik-Fill may only be operated with a hand pump water supply*



<p><b>Kit A</b></p>	<p><b>MP-2000</b></p> <p>Includes all parts necessary to add / set-up two batteries with quick disconnect for filling. Requires squeeze bulb filling kit (sold separately in Kit C).</p>
<p><b>Kit B</b></p>	<p><b>MP-2010</b></p> <p>Includes all parts necessary to add / set-up one battery with quick disconnect for filling. Requires squeeze bulb filling kit (sold separately in Kit C).</p>
<p><b>Kit C</b></p>	<p><b>RV-2020</b></p> <p>Squeeze bulb filler assembly and quick connect fitting.</p>

## Qwik-Fill - OEM

### QWIK-FILL OEM PACKED KITS



Kit Size / Description	Part #
1 Battery kit (hand pump not included)	QF-1010
2 Battery kit (hand pump not included)	QF-1020
3 Battery kit (hand pump not included)	QF-1030
3 Battery kit (hand pump included)	QF-1100
Hand pump	BA-MS-634
2 Battery kit with hand pump included	QF-1020-WS

## Pro-Fill RV Edition

Kit Size / Description	Part #
2 Battery kit (hand pump not included)	RV-2000
Hand pump	RV-2020



## QWIK-FILL AND PRO-FILL PARTS



**BM-100-RP**  
Replacement  
Qwik-Fill manifold  
(universal - barbs  
on both sides)



**BA-Y74-10**  
Valve for Pro-Fill system



**BA-127-FLEX**  
Flexible manifold



**BA-QDV-201**  
Female quick coupler,  
keyed 3/8" barb  
(used with hand pump)



**BSA-5000**  
Squeeze ball with  
check valves



**BA-QDV-512**  
Male quick coupler  
with dust cover  
(keyed 1/4" barb)



**BA-061**  
Replacement  
pack of barbs



**BD-T14**  
Clampless tubing,  
sold by the foot



**BD-00280-25**  
Red end caps  
(Sold as a 25 pack)  
**BD-00280-100**  
(Sold as a 100 pack)



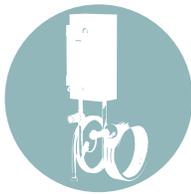
# WATER SUPPLIES to Use With Your Battery Watering Systems



Portable Watering Carts



Regulated Hose Supplies



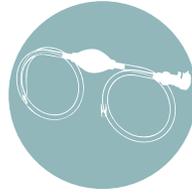
Portable Water Supplies



Deionizers



Gravity Tanks



Hand Pump & Mini Pump

## Portable Watering Cart

### Benefits to you include:

- Smaller footprint, 4 to a pallet!
- Ergonomic, upright design eliminates a user bending down
- Dedicated hose wrap notches
- Easy access spray bottle holders
- AC/DC powered
- 20 gallon capacity

### Rough Terrain Conversion Kit

Attachable large wheels available for more rugged environments.



**Quick Coupler**  
With flow-indicator

**Large Refill Hole**  
Screw top attached to the car with a chain

**9 Ft. Supply Hose**

**Includes Battery**  
With on-board charger

**Indicator Lights**  
Shows when the cart needs charging and battery charge level

**20 Gallon Capacity Tank**



Portable watering cart	<b>BA-MS-115</b>
Rough Terrain conversion kit	<b>BA-MS-117</b>

## Rough Terrain Watering Cart

### Additional Benefits:

- Larger wheels for rugged environment
- Able to navigate large cracks and stone terrain, as well as steps

### Dimensions:

Fits inside a 42.25" x 18.75" x 27.25" box.  
Able to ship FedEx ground.

### NEW! Larger Wheels

Fitted for rougher terrain so you can navigate around with ease



Rough Terrain watering cart	<b>BA-MS-116</b>
-----------------------------	------------------

## Portable Water Supply

The portable water supply automatically stops pumping when filling ends and is commonly used with a portable water tank filled with distilled water. This water supply is designed for batteries equipped with Millennium Evo SPW or Pro-Fill systems.

Portable water supply, 120V AC powered	<b>BA-MS-606</b>
Portable water supply, DC powered	<b>BA-MS-612</b>

**Multiple Use**  
Hand carried or wall mounted

**Metal Housing**  
Rugged 14 gauge construction

**20 Foot Power Cord**  
With cord bracket

**Pressure Regulator**

**6 Foot Suction Hose**  
With inline strainer

**Quick Coupler**  
With flow indicator

**9 Foot Supply Hose**

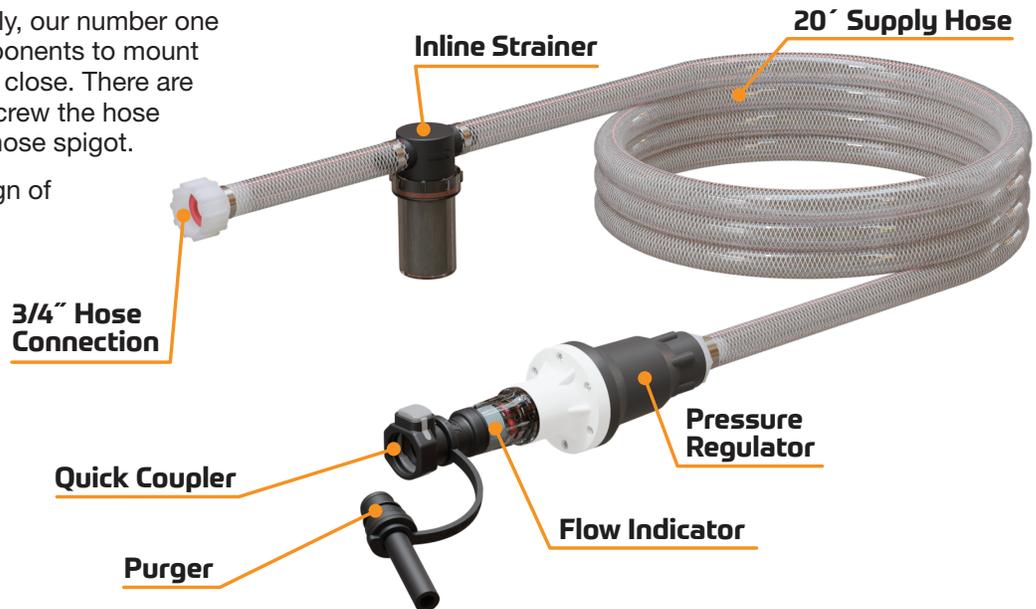


## Regulated Hose Supply

The regulated hose supply, our number one seller, has no bulky components to mount and no valves to open or close. There are no tools required—just screw the hose onto a standard garden hose spigot.

A new, more robust design of the flow indicator makes this product even more dependable and strong for holding up in harsh environments.

For use with batteries equipped with Millennium Evo or Pro-Fill systems.



Regulated hose supply with 20" hose	<b>BA-MS-320-20</b>
Regulated hose supply with 5" hose	<b>BA-MS-320-05</b>

## Deionizer

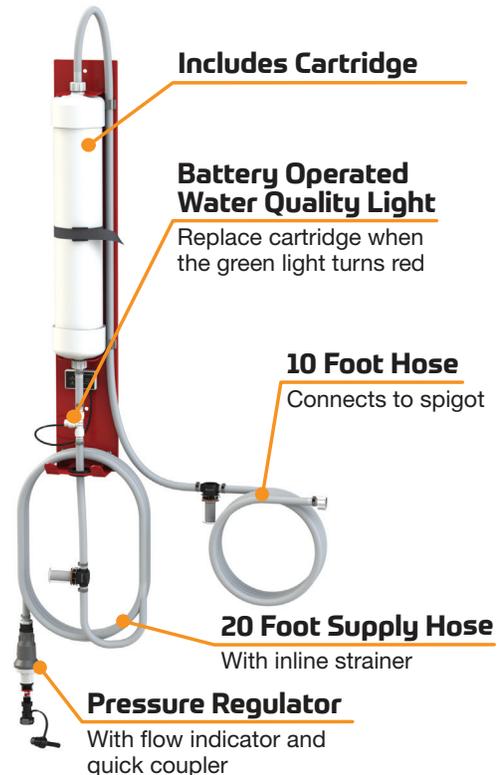
Flow-Rite's deionizer maximizes battery life by removing ions and heavy metals that are present in tap water. The separate bed deionizer uses an ion exchange cartridge to filter the water before it enters the battery. The cartridge can be discarded when replacement is necessary. This is determined when output exceeds 50 TDS (water quality light will turn red).

This deionizer is used for batteries equipped with Millennium Evo or Pro-Fill systems. For inlet water above 300 ppm, it is recommended that a prefilter is used.

Deionizer, battery operated	<b>BA-MS-340</b>
Replacement cartridge	<b>BA-221</b>

Input TDS	Gal. Yield
100	760
150	507
200	380
250	304
300	253

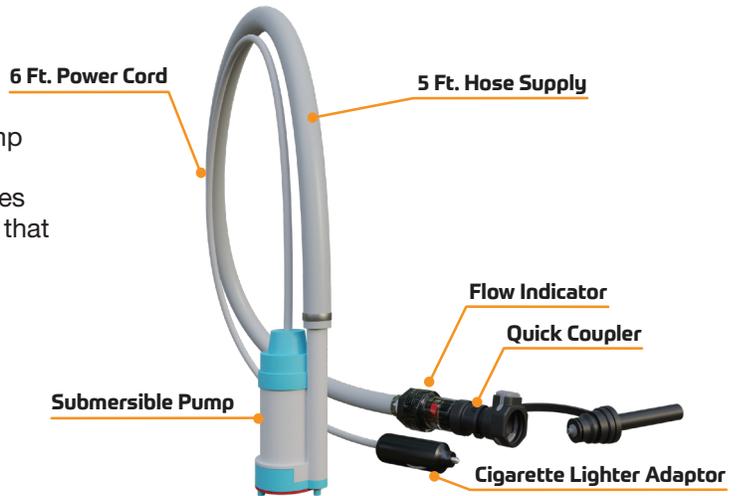
(estimates)



## Mini Pump

This DC powered water supply is practical for light duty applications of 24 cells or fewer. The mini pump is commonly used with a portable water tank filled with distilled water. This product works with batteries equipped with Millennium SPW or Pro-Fill systems that have a BA-QDV-505 quick coupler.

Mini pump, cigarette lighter adapter (12V DC)	<b>BA-MS-650</b>
Mini pump, tank & 110V AC adapter	<b>BA-MS-651</b>
Mini pump, tank & 12V DC ring terminals	<b>BA-MS-652</b>



*Note: This water supply must be purged before every use.*

## MINI PUMP ACCESSORIES



**BA-550**  
Adapter kit  
alligator clips



**BA-551**  
Adapter kit 110V  
wall plug



**BA-553**  
Adapter kit 5/16"  
ring terminals

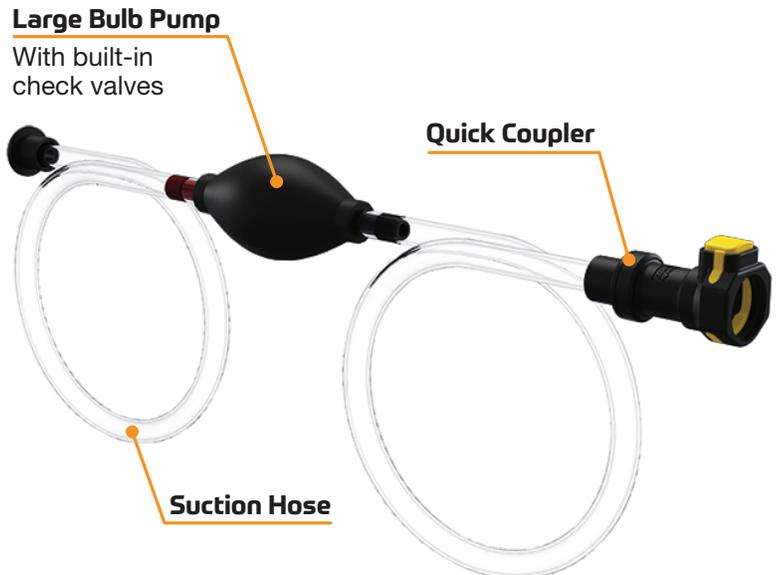


**BA-554**  
5 gallon tank for  
mini pump

## Hand Pump

The hand pump water supply is perfect for the person who has their own golf cart, utility vehicle, or other light use application. It is commonly used with a jug filled with distilled water and is ideal for use with batteries that feature 24 or fewer cells and are equipped with Millennium Evo SPW, Pro-Fill, or Qwik-Fill systems.

Hand pump	<b>BA-MS-634</b>
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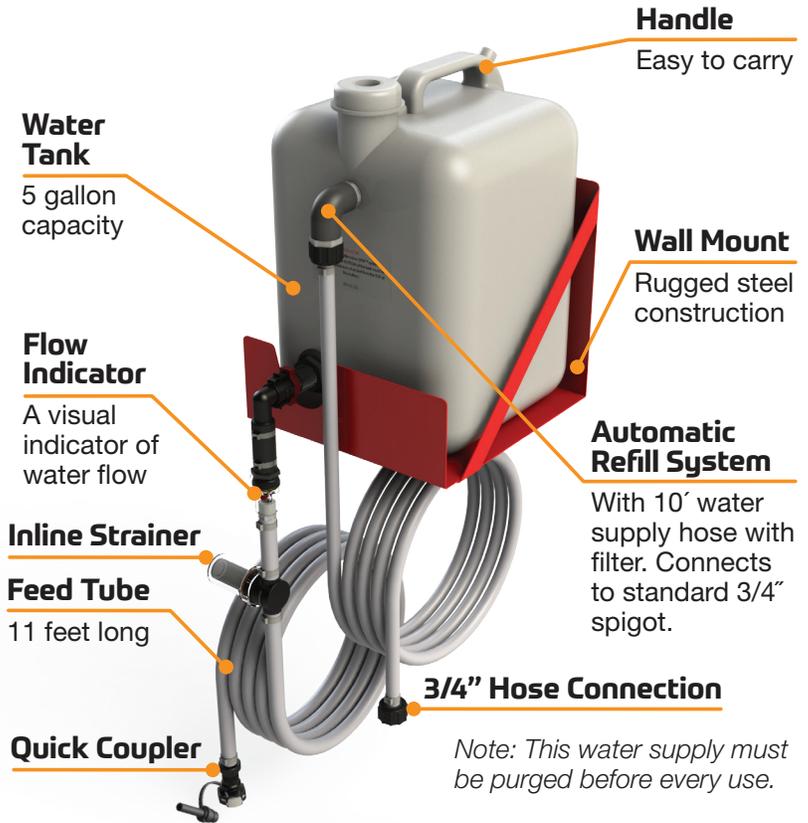


## Gravity Tank

This gravity tank may be put on a shelf or used with our rugged mounting bracket. **The bottom of the tank must be at a minimum of six feet above the top of the tallest batteries being watered.** The tank automatically refills itself and is compatible with deionized water.

The gravity tank is for use with batteries equipped with Millennium Evo or Pro-Fill systems.

Gravity tank with shelf and auto refill	<b>BA-MS-700</b>
Gravity tank with shelf, no auto refill	<b>BA-MS-702</b>
Gravity tank no shelf, no auto refill	<b>BA-MS-703</b>
Dropline Only	<b>BA-MS-600</b>



## WATER SUPPLY ACCESSORIES

The items below would be needed if you have a BWT or Philadelphia Scientific water supply or system.



**BA-QDV-715**  
Water supply converter, male Flow-Rite to female BWT (gray)



**BA-QDV-720**  
Water supply converter, male BFS (gray) to female Flow-Rite



**BA-013**  
Water supply converter, Philadelphia Scientific to Flow-Rite



**BA-QDV-725**  
Water supply converter, Flow-Rite to Philadelphia Scientific

## Water Supply Replacement Parts



**BA-MS-320-00**  
Hose end assembly



**BA-003**  
Regulator (current style)  
for use with BA-FLW-80  
(FGHT X FNPT)



**BA-FLW-60**  
Flow indicator (current style)  
(3/4 inch NPT x 3/8 inch  
FNPT)



**BA-FLW-80**  
Flow indicator (current style)  
(3/4 inch NPT x female  
coupler)



**BA-QDV-231**  
Female coupler 3/8" NPT



**BA-QDV-232**  
Female coupler x 1/2" barb  
for use with the Flow-Rite  
gravity tank, page 33



**BA-QDV-233**  
Female coupler x 3/8" barb



**BA-051**  
Purger for Millennium  
Evo water supplies



**BA-T03**  
20" Millennium Evo  
braided hose (FGHT X  
MGHT)



**BA-T04**  
5" Millennium Evo braided  
hose (FGHT X MGHT)



**BA-019**  
Inline strainer for 1/2 inch ID  
hoses for all water supplies.  
(Includes two worm clamps)



**BSA-5000**  
Squeeze ball with check  
valves



**BD-00328**  
Fuse holder for  
BA-MS-115 cart



**BD-00998**  
Power cord for  
BA-MS-115 cart



**BD-01017**  
Control board for  
BA-MS-115 cart

## Water Supply Replacement Parts



**BD-00321-MLR**  
Pump 12V DC for BA-MS-110 & BA-MS-612



**BD-00999**  
Pump 12V DC for BA-MS-115 cart



**BD-00607**  
Battery for BA-MS-110 & BA-MS-115 carts



**BA-512**  
Deionizer bypass removal retro kit



**BD-00327**  
Rocker switch, lighted (red), 120V used on most AC powered water supplies





## Battery Health & Monitoring Tools & Technology



Battery Monitoring



Level Sensors & Indicators



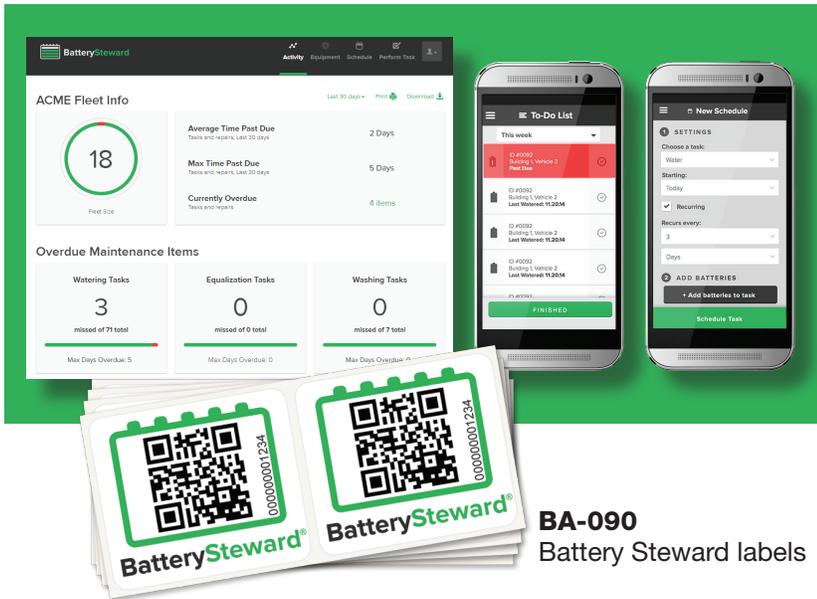
Tools



Vent Caps



## Battery Monitoring Application



**BA-090**  
Battery Steward labels

- Do you keep track of your battery maintenance on a disorganized whiteboard or spreadsheet?
- Do you know when you should water your batteries next?
- How do you know that proper maintenance was completed?
- How much money are you wasting because of poorly maintained batteries?

- Use your mobile device and identifying labels to create easy-to-follow battery care task lists. Tasks include watering, equalizing, and preventative maintenance.
- Check off batteries by scanning the Battery Steward identifying label that has been attached to your battery.
- Concerned about missing or overlooking a task? Battery Steward alerts you to when a task is due or past due.
- Record and analyze important battery maintenance data through the online portal.
- Identify neglected, misused, or abused batteries.

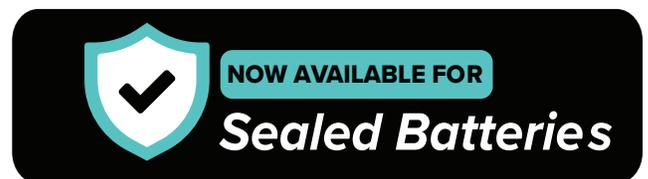
Save time and money by organizing your battery care and maintenance schedules. Download Battery Steward® by Flow-Rite.

Battery Steward® is an app and web portal solution that organizes your battery care schedule, alerts you when tasks are due, records maintenance and asset data, and allows you to proactively identify neglected, misused, or abused batteries.

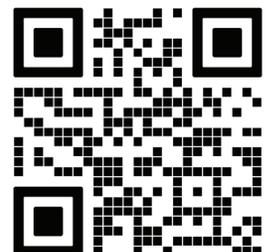
Download the app and create your account.



or visit [www.BatterySteward.com](http://www.BatterySteward.com)



Scan QR code for more info!



## Battery Monitoring Tracker with a Web and Mobile App

Advanced Battery Steward includes a Tracker for wireless communication!



**Sensors wirelessly communicate useful data to your computer and mobile devices:**

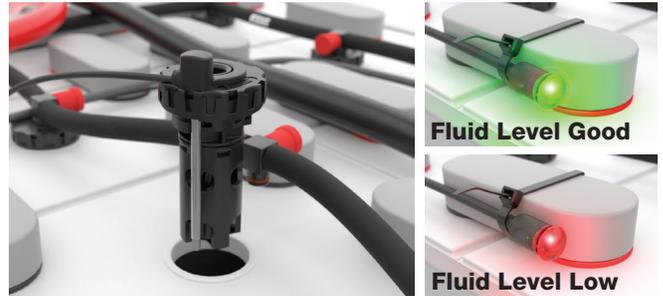
-  **Fluid Level**
-  **Voltage & Half-Voltage**
-  **Watering Events:  
Date & Time**
-  **Full Time Temperature Monitoring**
-  **Current In & Out**
-  **Battery Impact**

Knowing the condition of your forklift and deep cycle batteries will help you get the most out of your investment. Take the guesswork out of maintaining this essential asset.



## Eagle Eye Elite IV (In-Valve) Electrolyte Level Sensors

- Reverse polarity protected
- Sensor is integrated into the valve
- Handle on control module makes it easy to strap onto the battery
- Sealed lens protects the LED and electronics from impacts and acid migration
- Ring terminals are epoxy-sealed to wires to prevent corrosion
- Low current draw



### Specifications:

- Operating temperature range: Freezing to 150° F
- Operating voltage: 12 VDC - 48 VDC
- Current draw: 2mA - 7mA
- Power consumption range: 115mW at 48 VDC



Not compatible with Trojan® Plus Series batteries

Industrial Eagle Eye In-Valve Kits		
Part Number	Description	# of Cells
BK-1C0-211-512	6-3/4" tubing, black length	12
BK-1C0-211-518	6-3/4" tubing, black length	18
BK-1C0-211-524	6-3/4" tubing, black length	24
BK-1C0-211-540	6-3/4" tubing, black length	40
BK-1C0-911-512	6-3/4" tubing, orange length	12
BK-1C0-911-518	6-3/4" tubing, orange length	18
BK-1C0-911-524	6-3/4" tubing, orange length	24
BK-1C0-311-518	6-3/4" tubing, red length	18
BK-1C0-411-518	6-3/4" tubing, white length	18
BK-1CA-211-512	Pre-assembled 5.5" tubing, black length	12
BK-1CB-211-518	Pre-assembled 6" tubing, black length	18
BK-1CB-211-524	Pre-assembled 6" tubing, black length	24
BK-1CC-211-518	Pre-assembled 6-3/4" tubing, black length	18

Pro-Fill Eagle Eye In-Valve Kits* (valves winged and shrouded)		
Part Number	Manifold	# of Cells
BG-U12V-7G-EA	Flex 6V	6
BG-U24V-7G-EA	Flex 6V	12
BG-U36V-7G-EA	Flex 6V	18
BG-U48V-7G-EA	Flex 6V	24
BG-U72V-7G-EA	Flex 6V	36
BG-U24V-BA-EA	Flex 8V	12
BG-U48V-BA-EA	Flex 8V	24

Valve Length	Cast On Terminals	Bolt On Terminals	35P Adaptor & Bolt On Terminals
Black	EA-020***	-	-
Orange	EA-021***	-	-
Red	EA-022***	EA-224	EA-222
White	EA-023***	EA-225	EA-223
Yellow*	EA-006**	-	-
Maverick	EA-025	-	-

\* Pro-Fill valves (yellow) have integrated flame arresters for increased safety

\*\* Not recommended for use with Crown 12V batteries

\*\*\* ETL Certified

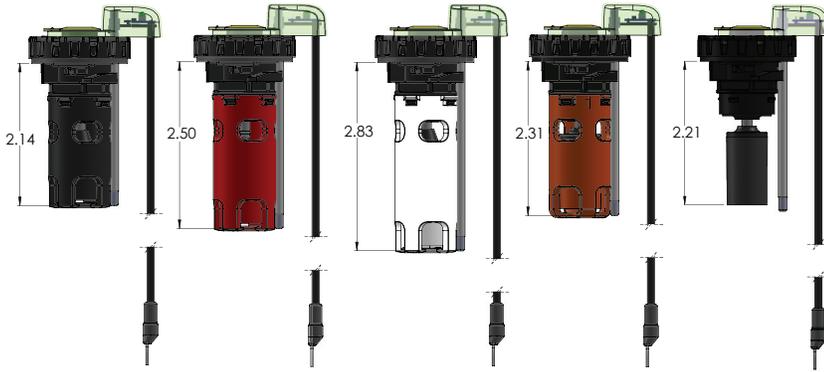
### Eagle Eye Elite D DP (Plug-In Version)\*\*

Part Number	Description
EA-013	In-valve electrolyte level sensor and valve assembly for transmitting signal, with Deutsch connectors

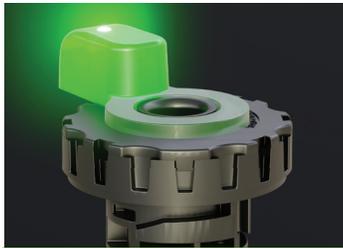
\*\*ETL is done on the vehicle and does not apply to this product

## Eagle Eye Essential IV - Brightest in its Class!

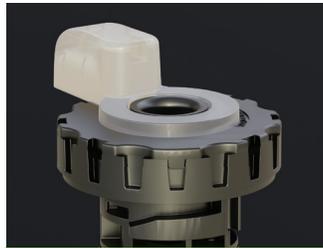
Eagle Eye Essential IV is a new in-valve level sensor that is the Brightest in its Class. With Eagle Eye Essential IV, installation is quick and easy – in fact, it is much faster than the competition! There is no need to drill into the battery nor cut the probe. Simply install the valve, connect the wire, and you are ready to go! Plus, the 2 year – No Questions Asked warranty gives you the peace of mind knowing that you can rely on Eagle Eye Essential.



### UP TO 6X BRIGHTER THAN THE COMPETITION!



Fluid Level Good



Fluid Level Low

### ADVANTAGES

Eagle Eye Essential IV boasts the following features:

- Low current draw 15mA
- Engineered high-quality alloy probe for increased life
- Two Year - No Questions Asked Warranty!
- RoHS compliant
- Safer - No drilling into batteries, No lead scrap or lead exposure to the installer, No need to cut probes, they are pre-cut to coincide with valve length
- Sensor is integrated into the valve - order with your existing valve kits
- Ring terminal is epoxy-sealed to wires to prevent corrosion
- Great for small plate batteries

### Specifications:

- Operating temperature range: -40° F to 185° F
- Operating voltage: 4 VDC to 12 VDC
- Powered in cell
- Power consumption range: 180mW at 48 VDC

New BK Kits	Description
BK-1C0-230-512	Black, Eagle Eye Essential IV 12 Cell
BK-1C0-230-518	Black, Eagle Eye Essential IV 18
BK-1C0-230-524	Black, Eagle Eye Essential IV 24 Cell
BK-1C0-230-540	Black, Eagle Eye Essential IV 40 Cell
BK-1G0-V30-512	Maverick, Eagle Eye Essential IV 12 Cell
BK-1G0-V30-518	Maverick, Eagle Eye Essential IV 18 Cell
BK-1G0-V30-524	Maverick, Eagle Eye Essential IV 24 Cell
BK-1C0-330-512	Red, Eagle Eye Essential IV 12 Cell
BK-1C0-330-518	Red, Eagle Eye Essential IV 18 Cell
BK-1C0-330-524	Red, Eagle Eye Essential IV 24 Cell
BK-1C0-330-540	Red, Eagle Eye Essential IV 40 Cell

Standalone Product	Description
EA-040	Black, Eagle Eye Essential IV BBC (Bayonet/Cast On)
EA-041	Red, Eagle Eye Essential IV BRC (Bayonet/Cast On)
EA-042	White, Eagle Eye Essential IV BWC (Bayonet/Cast On)
EA-043	Orange, Eagle Eye Essential IV BOC (Bayonet/Cast On)
EA-048	Maverick, Eagle Eye Essential IV BMC (Bayonet/Cast On)

## Eagle Eye Essential+/Essential Electrolyte Level Sensors

Eagle Eye Essential+ drill-in level sensors accurately monitor and display the status of cell electrolyte levels with a solid green or blinking red light.

Our Eagle Eye Essential drill-in level sensor is a simple sensor that indicates when a battery requires water when the green indicator light goes out.

- Reverse polarity protected (not Essential)
- Probe may be trimmed to size
- Sealed polypropylene lens protects the LED & electronics from impacts and acid migration
- 3 self resetting fuses
- 100% functionally tested
- 1 Year Warranty



Eagle Eye Essential+ D		
	The most popular version of our level indicators is the Eagle Eye Local Standard. This is for use on 11-33 plate batteries where the top of the battery is frequently exposed.	
	1.93" / 49 mm (standard length)	BA-491
	2.91" / 74 mm	BA-492
	5" / 127 mm	BA-488

Eagle Eye Essential+ D		
	Eagle Eye Remote Standard is used on 11-33 plate batteries where the battery top is not easily viewed. The remote light mounts on the dash or the side of the battery case. It is frequently used on narrow aisle lift truck batteries that remain inside the vehicle and are not readily accessible.	
	1.93" / 49 mm (standard length)	BA-494
	3.03" / 77 mm	BA-490

Eagle Eye Essential		
<p><i>Cannot be trimmed.</i></p>	Our original level light and best seller. When the green light is on, battery fluid level is good, and when the light goes out, battery fluid level is low.	
	Standard length	BA-434

## Tools

### Optical Level Indicators



For bulk packs in quantities of 100 for any of the above optical level indicators, simply add "-100" to the part number.

Optical level indicator with sleeve, standard	BA-134
Optical level indicator with sleeve, long	BA-135
Optical level indicator with sleeve, short (yellow length)	BA-137



**BD-00107**  
Cell inspection plug  
**BD-00107-600**  
Bulk pack  
(Sold as a pack of 600)



**BA-574**  
Sample Bag



**BA-594**  
Service Kit



**BD-00034**  
Safety glasses



**BD-00871**  
4-prong spanner tool



**BA-107**  
Drill bit  
*Note: Special design prevents debris from entering battery*



**BD-00925**  
Acid extractor



**BA-501**  
XL tube cutter



**BA-572**  
Water quality tester



**BD-00008**  
NO-OX-ID grease



**BA-007**  
Tube cutter



**BA-584**  
Cell depth measuring tool

### Hydrometers

Our Gefo hydrometers feature a centered aerometer that has no lateral contact with the outer cylinder. You will receive a fast and accurate reading every time from the color coded/numerical scale. *For use with Millennium Evo flip top valves.*

Part #	Model	Density Range	Graduations (Scale)	Vol	Therm
BA-047	Gefo Centra	1.10-1.30 (g/ml)	.01g	18 cc	No
BA-065	Gefo S / Th	1.08-1.30 (g/ml)	.005	42 cc	Yes 0-60 C
<b>Float</b>	Replacement for BA-047 hydrometer			BD-00166	

## Water Wise

Water Wise flip top watering caps limit the nozzle depth of automatic watering guns to achieve accurate electrolyte levels without the use of adjustable O-rings. Take the guess-work out of refilling battery cells when using a watering gun!

Simply leave the flip top watering cap in place. Your batteries will always be filled to the correct level, ensuring optimal battery life.

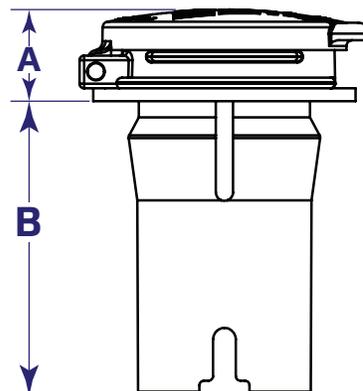
You'll have peace of mind knowing that every battery cell is watered properly and safely.

- Fast
- Reliable
- Economical
- Durable



- Flip-Open Top**  
Ergonomic easy cell access
- Recombinant Tips**  
Promotes and directs condensation back into the cell, reducing water consumption
- Low Profile**  
Sits only 1/2" above battery top to stay out of harms way
- Push-In Design**  
Allows for fast and easy installation
- Polypropylene Construction**  
Acid and impact resistant
- Pin and Socket Hinge**  
For more durability
- Removal Grip**  
Allows for easy removal
- Depth Limiter**  
Limits watering gun depth and ensures proper watering level every time

*Private labeling options available for volume purchases*



Model #	Description	A	B
VNT-1W2	Water Wise, bayonet, push-in, black length	.5"	1.62"
VNT-1W3	Water Wise, bayonet, push-in, gray length	.5"	2.00"
VNT-3H1	Water Wise, 35P, push-in, 37 mm length	.6"	1.52"
VNT-3H2	Water Wise, 35P, push-in, 47 mm length	.6"	1.90"

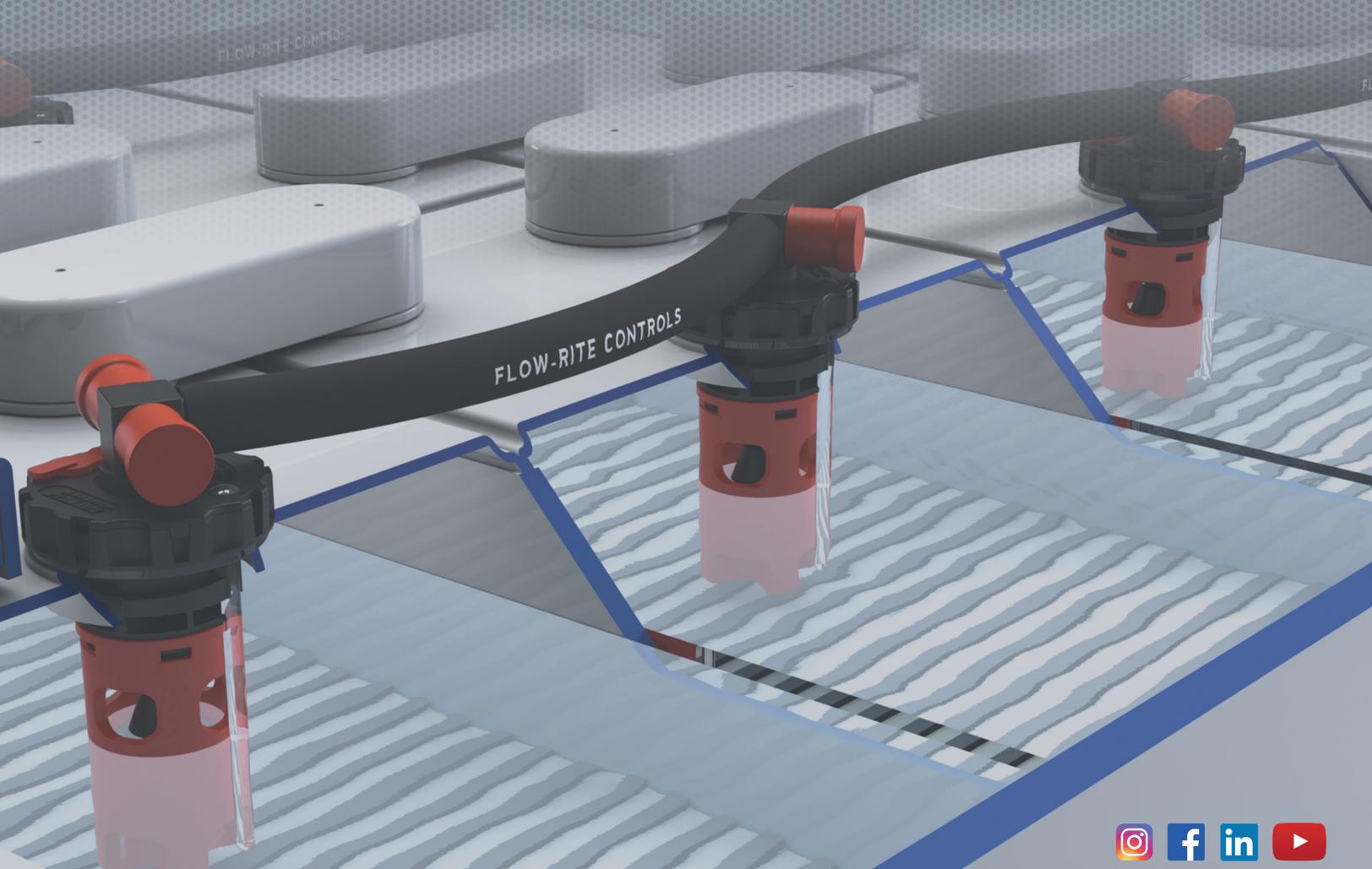




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