



**Edition 0314.01**

# Battery Watering Technologies



**Faster.**

*Reduce filling time by 90%*

**Safer.**

*Keep battery area safe and clean*

**Better.**

*Improve battery life and performance*

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**Battery Watering Technologies**

# How to Order

toll free: 1.877.522.5431

fax: 336.714.0449

email: [orders@batterywatering.com](mailto:orders@batterywatering.com)

6645 Holder Road Clemmons, North Carolina 27012

*All industrial kits will ship with black tubing (08TUB6BLK) and all golf kits will ship with clear tubing (08TUB6K) unless specified otherwise. All kits will ship with 09MBLU1 connector unless specified otherwise.*

**There are three types of kits offered for batteries.**

1. The **Basic Kit** - Everything is provided for the kit, however the tubing is not cut or attached to any of the valves.

To place an order for a **Basic Kit**, determine the valve type needed by using the industrial valve guide on page 3 or the golf valve guide on page 16. You must know the battery make and model to use the valve guide. After determining the valve type, go to pages 5-9 for industrial batteries or pages 17-19 for golf batteries to determine the basic kit part number needed.

2. The **Partially Assembled Kit** - Strings of 3 or 4 valves have tubing attached. Extra tubing is provided to complete assembly of the kit.

To place an order for a **Partially Assembled Kit**, determine the valve type needed by using the industrial valve guide on page 3 or the golf valve guide on page 16. You must know the battery make and model before using the valve guides. After determining the valve type, go to pages 5-9 for industrial batteries or page 17-19 for golf batteries to determine the basic kit part number needed. Finally add one of the following drawing numbers to your order: B-12-LP-PA (12 cell), B-18-LP-PA (18 cell) or B-24-LP-PA (24 cell).

3. The **Fully Assembled Kit** - Tubing is attached to the valves and the kit is ready for installation. No assembly is required.

To place an order for a **Fully Assembled Kit**, determine the valve type needed by using the industrial valve guide on page 3 or the golf valve guide on page 16. You must know the battery make and model before using the valve guides. The drawing number is also required to place an order for a fully assembled kit. See pages 10-15 for some of our most popular battery drawings. For a complete list of drawings, visit our web site at [www.batterywatering.com](http://www.batterywatering.com). Then go to Technical Info / Industrial Drawings on our site and enter the # of cells and the # of plates.

*There is no additional charge for fully assembled kits.*



*Pictured: 12 cell basic industrial kit*



*Pictured: 12 cell partially assembled industrial kit*



*Pictured: 12 cell fully assembled industrial kit*

# Innovative Design

*Safety and labor savings are of the utmost importance to Battery Watering Technologies. Our valves are manufactured with the highest quality materials that keep all working parts above the battery cell.*

## Hydrometer Port

Hydrometer readings can be taken without removing the valve from the battery. The hydrometer opening has a slider with a stop so the covering won't break or get lost.

## Tubing Barbs

Eliminates the need for clamps and angled to make installation easy in tight configurations

## z-Lock

The z-Lock feature integrates the tee piece with the valve for added strength.

## Indicator Eye

Visible from the top and side -  
Confirms proper operation of valves

## Low Profile Design

Drastically reduces the risk of damage from battery cables

## Clip-in Base

Installation is fast and easy -  
No twisting to lock in place

## Encapsulated Float

Reinforced encapsulation protects the float and eliminates interference with the moss shield

## Solid One Piece Float

Acid, temperature, and impact resistant -  
solid construction cannot absorb water

## Fully Assembled Kits

Installs in seconds



## Widest Pressure Range

The valves operate with pressure up to 35 psi using our filling devices. House static pressure should never be more than 80 psi. If needed, a variety of pressure regulators are available to lower pressure.





Battery Watering Technologies

# Industrial Valve Guide

MANUFACTURER	BATTERY TYPE	VALVE NEEDED
Battery Builders	FPLM	VB-TB4
Bulldog		VB-TB4
C & D	C-Line, V-Line, EM-Line	VB-TB4
Crown Battery		VB-TB4
Deka	D Series	VB-TB4
	Maintenance Saver	VB-TB4
	Max Power	VB-TB4
	Hydra Saver	VB-TB4
Douglas	45DL, 45DLO	VA-TB4
	60DL	VA-TB4
	85DL, 85DM, 85DA	VA-TB4
	90DL	VA-TB4
	100DL, 100DM	VA-TB5
	125DL, 125DM, 125DA	VA-TB5
	170DL	VA-TB5
EnerSys	Work / Load / Super Hog®	
	E55-L	VB-TB4
	E75-L	VB-TB4
	E75	VB-TB4
	E90	VB-TB4
	E100	VB-TB4
	E110	VB-TB4
	E125	VB-TB5
	E140	VB-TB5
	E155	VB-TB5
	E90D	VB-TB4
	E100D	VB-TB4
	E125D	VB-TB5
	E140X	VB-TB5
	E100X	VB-TB4
	General®/ HUP®	
	55GL	VB-TB4
	75G	VB-TB4
	75GL	VB-TB4
	85G	VB-TB4
	100G	VB-TB4
	125G	VB-TB5
	85P	VB-TB4
	85P (FC)	VB-TB5
	100P	VB-TB4
	125P	VB-TB5
	125P (FC)	VB-TB5
GNB *mfg before 3/12	GNB Flat Plate / Titan	VB-GLP
*mfg after 4/12	GNB Flat Plate / Titan	VB-TB4WO
	Tubular HP	VB-TB4WO
	Liberator	VB-TB4WO
Hawker	Water Less®/Powerline®/Top Power®	VB-TB4
	Energy Plus™ (L,E,C,X Series)	VB-TB4
	Energy Plus™ (K Series)	VB-TBY
	Top Power®	VB-TB4
Powerflow		VB-TB4

# Industrial Valves

All valves are push-in

Please see Industrial Valve Guide on page 3

## VB-TB4

Centurion Valve 40



## VB-TB5

Centurion Valve 50



## VB-GLP

Use only on GNB flat plate batteries *manufactured before April 2012*. Never use for Liberator or Tubular batteries.



## VB-TB4WO

Used for ALL GNB batteries *manufactured after April 2012*



## VA-TB4

Douglas Battery Valve 40 Standard and 35 mm Openings



## VA-TB5

Douglas Battery Valve 50 and 35 mm Openings



## 09PUAD

Adapter for Push-in  
Included  
*Ships Unassembled*







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# Centurion Series Kits



Pictured: **K1200TB4 BASIC Kit (connector ships unattached from tubing)**

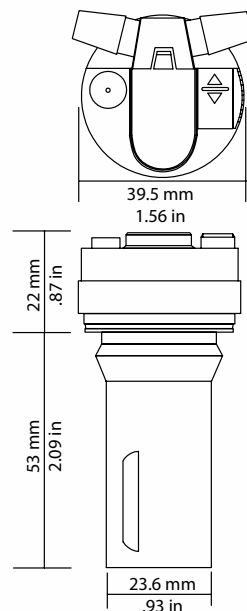
Centurion Valve 40  
**VB-TB4**



[www.batterywatering.com](http://www.batterywatering.com) / Technical Information / Industrial Drawings - for a complete listing of fully assembled kit drawings.

## Centurion Series Basic Kits with VB-TB4 Valves

<b>K600TB4</b>	6 cell system, series 40
<b>K900TB4</b>	9 cell system, series 40
<b>K1200TB4</b>	12 cell system, series 40
<b>K1800TB4</b>	18 cell system, series 40
<b>K2400TB4</b>	24 cell system, series 40
<b>K3600TB4</b>	36 cell system, series 40
<b>K4000TB4</b>	40 cell system, series 40
<b>K6400TB4</b>	64 cell system, series 40



- To order a competitor connector on the end of the kit, add suffix W-Watermaster®, F-Flow-Rite®, P-Philadelphia Scientific®, G-Grey, H-Hanson® (Example: K1200TB4W for a 12 cell kit with Watermaster® connector).
- Fully assembled kit orders placed without drawing numbers may delay your order.
- All kits ship with BLACK TUBING (08TUB6BLK) unless specified in writing on the order.
- All kits ship with blue connector (09MBLU1) unless specified in writing on the order.
- Delivery items are not automatically added to orders. Only items specified on the purchase order will ship.
- Please refer to the industrial valve guide on page 3 to determine the proper valve type.
- No extra charge for pre-strung kits.

Centurion Series Kits

toll free: 1.877.522.5431

# Centurion Series Kits



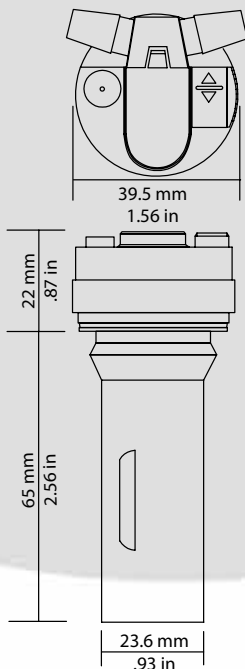
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Centurion Valve 50  
**VB-TB5**



*Pictured: K1200TB5 BASIC Kit (connector ships unattached from tubing)*

[www.batterywatering.com](http://www.batterywatering.com) / Technical Information / Industrial Drawings - for a complete listing of fully assembled kit drawings.



## Centurion Series Kits with VB-TB5 Valves

<b>K600TB5</b>	6 cell system, series 50
<b>K900TB5</b>	9 cell system, series 50
<b>K1200TB5</b>	12 cell system, series 50
<b>K1800TB5</b>	18 cell system, series 50
<b>K2400TB5</b>	24 cell system, series 50
<b>K3600TB5</b>	36 cell system, series 50
<b>K4000TB5</b>	40 cell system, series 50
<b>K6400TB4</b>	64 cell system, series 50

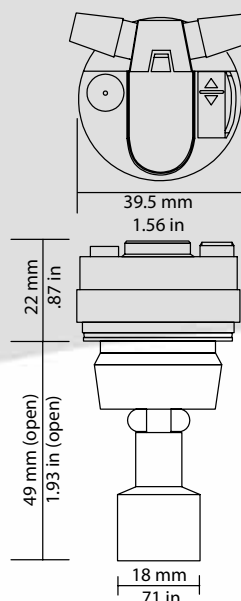
- To order a competitor connector on the end of the kit, add suffix W-Watermaster®, F-Flow-Rite®, P-Philadelphia Scientific®, G-Grey, H-Hanson® (Example: K1200TB4W for a 12 cell kit with Watermaster® connector).
- Fully assembled kit orders placed without drawing numbers may delay your order.
- All kits ship with BLACK TUBING (08TUB6BLK) unless specified in writing on the order.
- All kits ship with blue connector (09MBLU1) unless specified in writing on the order.
- Delivery items are not automatically added to orders. Only items specified on the purchase order will ship.
- Please refer to the industrial valve guide on page 3 to determine the proper valve type.
- No extra charge for pre-strung kits.



# Centurion Series Kits

## Centurion Kits for GNB Battery/Special Applications with VB-TB4WO Valves

<b>K600TB4WO</b>	6 cell system, GNB Valve without encapsulation
<b>K900TB4WO</b>	9 cell system, GNB Valve without encapsulation
<b>K1200TB4WO</b>	12 cell system, GNB Valve without encapsulation
<b>K1800TB4WO</b>	18 cell system, GNB Valve without encapsulation
<b>K2400TB4WO</b>	24 cell system, GNB Valve without encapsulation
<b>K3600TB4WO</b>	36 cell system, GNB Valve without encapsulation
<b>K4000TB4WO</b>	40 cell system, GNB Valve without encapsulation
<b>K6400TB4WO</b>	64 cell system, GNB Valve without encapsulation



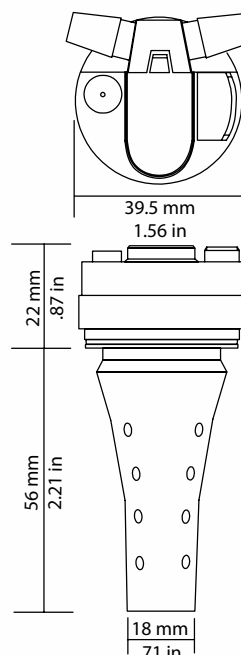
Used for ALL GNB batteries *manufactured after April 2012*  
**VB-TB4WO**



## Centurion Series Kits for GNB Battery with VB-GLP Valves

*Fits batteries with channeled moss shields*

<b>NK600GLP</b>	6 cell system, GNB Valve
<b>NK900GLP</b>	9 cell system, GNB Valve
<b>NK1200GLP</b>	12 cell system, GNB Valve
<b>NK1800GLP</b>	18 cell system, GNB Valve
<b>NK2400GLP</b>	24 cell system, GNB Valve
<b>NK3600GLP</b>	36 cell system, GNB Valve
<b>NK4000GLP</b>	40 cell system, GNB Valve
<b>NK6400GLP</b>	64 cell system, GNB Valve



Use only on GNB flat plate batteries *manufactured before April 2012*. Never use for Liberator or Tubular batteries.

**VB-GLP**



- To order a competitor connector on the end of the kit, add suffix W-Watermaster®, F-Flow-Rite®, P-Philadelphia Scientific®, G-Grey, H-Hanson® (Example: K1200TB4W for a 12 cell kit with Watermaster® connector).
- Fully assembled kit orders placed without drawing numbers may delay your order.
- All kits ship with BLACK TUBING (08TUB6BLK) unless specified in writing on the order.
- All kits ship with blue connector (09MBLU1) unless specified in writing on the order.
- Connector ships unassembled on all basic kits.
- Delivery items are not automatically added to orders. Only items specified on the purchase order will ship.
- Please refer to the industrial valve guide on page 3 to determine the proper valve type.
- No extra charge for pre-strung kits.

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Centurion Series Kits

# Centurion Series Kits

Douglas Valve 40  
and 35 mm Openings  
**VA-TB4**

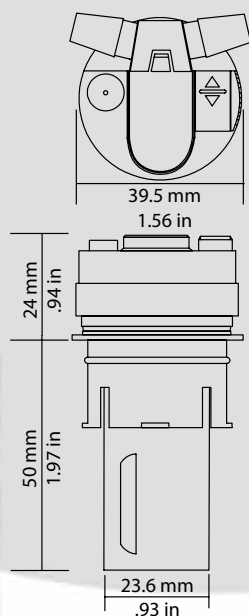


Pictured: **K1200TB4D BASIC Kit (connector ships unattached from tubing)**

[www.batterywatering.com](http://www.batterywatering.com) / Technical Information / Industrial Drawings -  
for a complete listing of fully assembled kit drawings.

## Centurion Series Kits with VA-TB4 Valves

<b>K600TB4D</b>	6 cell system, series 40 with 09PUAD insert
<b>K900TB4D</b>	9 cell system, series 40 with 09PUAD insert
<b>K1200TB4D</b>	12 cell system, series 40 with 09PUAD insert
<b>K1800TB4D</b>	18 cell system, series 40 with 09PUAD insert
<b>K2400TB4D</b>	24 cell system, series 40 with 09PUAD insert
<b>K3600TB4D</b>	36 cell system, series 40 with 09PUAD insert
<b>K4000TB4D</b>	40 cell system, series 40 with 09PUAD insert
<b>K6400TB4D</b>	64 cell system, series 40 with 09PUAD insert



- To order a competitor connector on the end of the kit, add suffix W-Watermaster®, F-Flow-Rite®, P-Philadelphia Scientific®, G-Grey, H-Hanson® (Example: K1200TB4W for a 12 cell kit with Watermaster® connector).
- Fully assembled kit orders placed without drawing numbers may delay your order.
- All kits ship with BLACK TUBING (08TUB6BLK) unless specified in writing on the order.
- All kits ship with blue connector (09MBLU1) unless specified in writing on the order.
- Delivery items are not automatically added to orders. Only items specified on the purchase order will ship.
- Please refer to the industrial valve guide on page 3 to determine the proper valve type.
- No extra charge for pre-strung kits.



# Centurion Series Kits

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*Pictured:* **K1200TB5D BASIC Kit (connector ships unattached from tubing)**

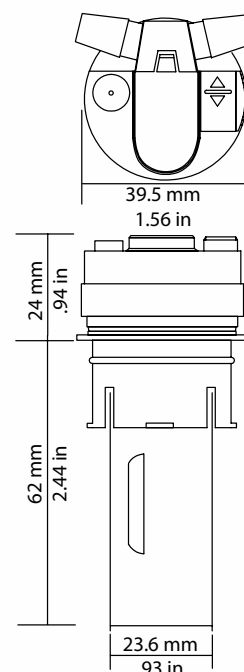
[www.batterywatering.com](http://www.batterywatering.com) / Technical Information / Industrial Drawings - for a complete listing of fully assembled kit drawings.

## Centurion Series Kits with VA-TB5 Valves

<b>K600TB5D</b>	6 cell system, series 50 with 09PUAD insert
<b>K900TB5D</b>	9 cell system, series 50 with 09PUAD insert
<b>K1200TB5D</b>	12 cell system, series 50 with 09PUAD insert
<b>K1800TB5D</b>	18 cell system, series 50 with 09PUAD insert
<b>K2400TB5D</b>	24 cell system, series 50 with 09PUAD insert
<b>K3600TB5D</b>	36 cell system, series 50 with 09PUAD insert
<b>K4000TB5D</b>	40 cell system, series 50 with 09PUAD insert
<b>K6400TB5D</b>	64 cell system, series 50 with 09PUAD insert

Douglas Valve 50  
and 35 mm Openings

**VA-TB5**



- To order a competitor connector on the end of the kit, add suffix W-Watermaster®, F-Flow-Rite®, P-Philadelphia Scientific®, G-Grey, H-Hanson® (Example: K1200TB4W for a 12 cell kit with Watermaster® connector).
- Fully assembled kit orders placed without drawing numbers may delay your order.
- All kits ship with BLACK TUBING (08TUB6BLK) unless specified in writing on the order.
- All kits ship with blue connector (09MBLU1) unless specified in writing on the order.
- Delivery items are not automatically added to orders. Only items specified on the purchase order will ship.
- Please refer to the industrial valve guide on page 3 to determine the proper valve type.
- No extra charge for pre-strung kits.

Centurion Series Kits

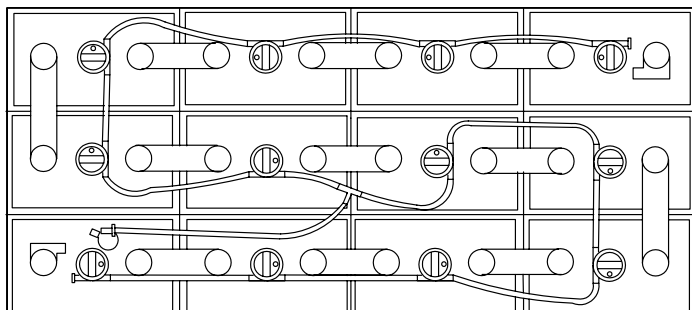
# Battery Drawings

*Please follow the drawing precisely as shown.*

*Note: Remove battery caps, lay string of valves on battery as shown in the diagram below. Snap each valve into the corresponding cell. Make sure all tubing remains unobstructed. Always water battery after charging is complete. **Please put the drawing number on your order.***

## Drawing # B-12-7-LP-40

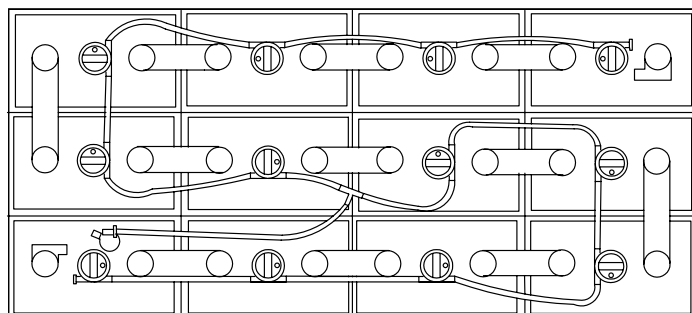
### 12 Cell - 7 Plate (with or without cover) Approximate Tray Size: 25 x 9



Part #	Description	Quantity
Various	Low Profile Valve	12
08TUB6BLK	.6mm 1/4" Tubing	11' or 3.35 m
08T666N	6-6-6 Tee	1
09BDCAP	Dust Cap	1
09MBLU1	.6mm 1/4" Male Conn	1
08CAP6	End Cap	2

## Drawing # B-12-9-LP-05

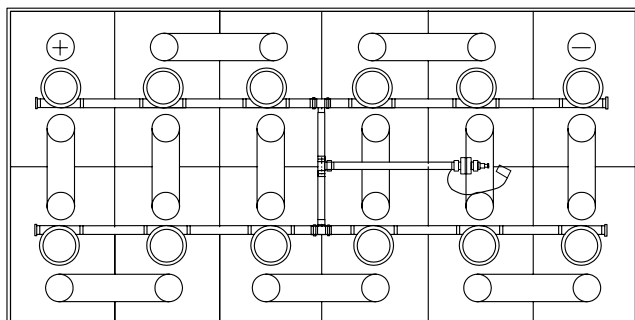
### 12 Cell - 9 Plate (with or without cover) Approximate Tray Size: 25.50 x 11.50



Part #	Description	Quantity
Various	Low Profile Valve	12
08TUB6BLK	.6mm 1/4" Tubing	10.5' or 3.2 m
08T666N	6-6-6 Tee	1
09BDCAP	Dust Cap	1
09MBLU1	.6mm 1/4" Male Conn	1
08CAP6	End Cap	2

## Drawing # B-12-13-LP-22

### 12 Cell - 13 Plate (with or without cover) Approximate Tray Size: 31 x 13



Part #	Description	Quantity
Various	Low Profile Valve	12
08TUB6BLK	.6mm 1/4" Tubing	8' or 2.44 m
08T666N	6-6-6 Tee	3
09BDCAP	Dust Cap	1
09MBLU1	.6mm 1/4" Male Conn	1
08CAP6	End Cap	4



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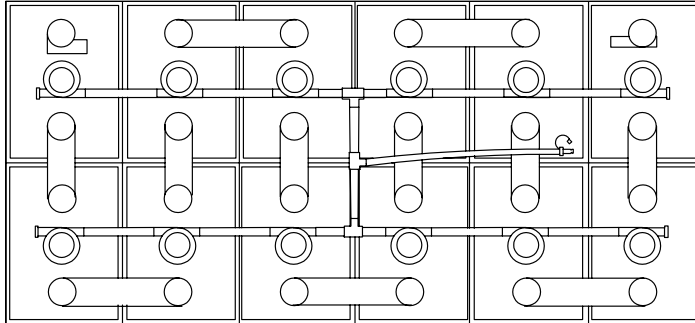
# Battery Drawings

Visit our website at: [www.batterywatering.com](http://www.batterywatering.com)  
to view a complete library of battery diagrams.

Please put the drawing number on your order.

Drawing # B-12-15-LP-23

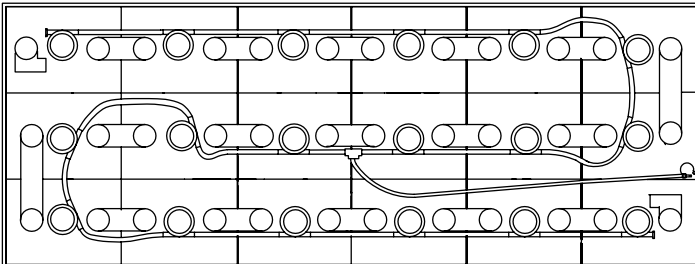
**12 Cell - 15 Plate** (with or without cover) *Approximate Tray Size: 36 x 13*



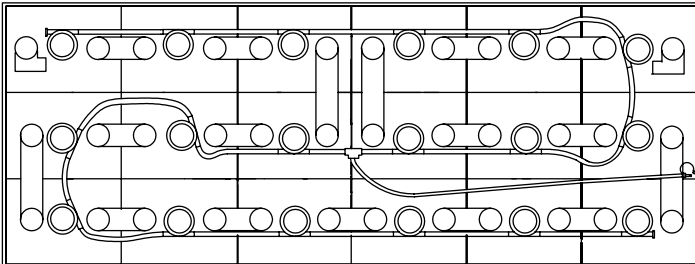
Part #	Description	Quantity
Various	Low Profile Valve	12
08TUB6BLK	.6mm 1/4" Tubing	11' or 3.35 m
08T666N	6-6-6 Tee	3
09BDCAP	Dust Cap	1
09MBLU1	.6mm 1/4" Male Conn	1
08CAP6	End Cap	4

Drawing # B-18-13-LP-03

**18 Cell - 13 Plate** (with or without cover) *Approximate Tray Size: 38 x 15.75*



OR



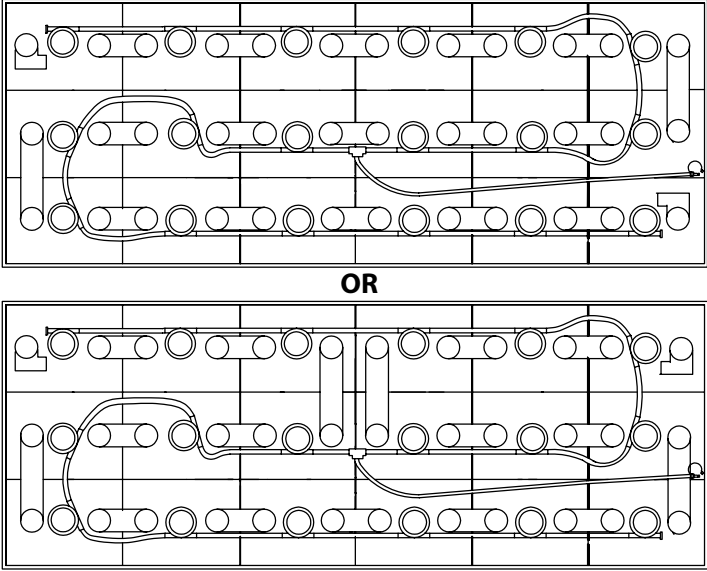
Part #	Description	Quantity
Various	Low Profile Valve	18
08TUB6BLK	.6mm 1/4" Tubing	10.5' or 3.2 m
08T666N	6-6-6 Tee	1
09BDCAP	Dust Cap	1
09MBLU1	.6mm 1/4" Male Conn	1
08CAP6	End Cap	2



# Battery Drawings

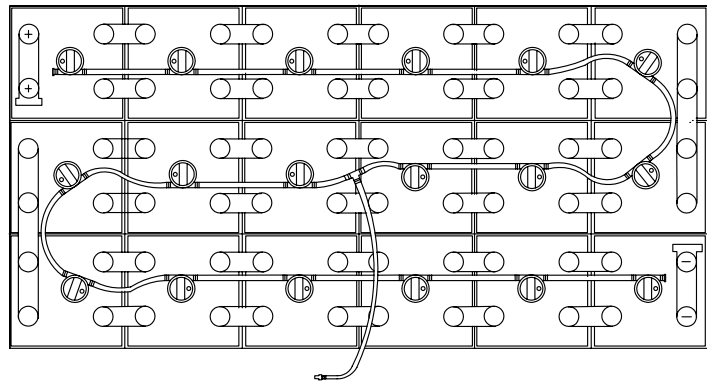
*Please follow the drawing precisely as shown.*  
 Note: Remove battery caps, lay string of valves on battery as shown in the diagram below. Snap each valve into the corresponding cell. Make sure all tubing remains unobstructed. Always water battery after charging is complete. *Please put the drawing number on your order.*

**Drawing # B-18-15-LP-02**  
**18 Cell - 15 Plate** (with or without cover)    *Approximate Tray Size: 38 x 17.75*



Part #	Description	Quantity
Various	Low Profile Valve	18
08TUB6BLK	6mm 1/4" Tubing	10.5' or 3.2 m
08T666N	6-6-6 Tee	1
09BDCAP	Dust Cap	1
09MBLU1	6mm 1/4" Male Conn	1
08CAP6	End Cap	2

**Drawing # B-18-17-LP-04**  
**18 Cell - 17 Plate** (with or without cover)    *3 x 6 layout*  
*Approximate Tray Size: 38.50 x 20.20*



Part #	Description	Quantity
Various	Low Profile Valve	18
08TUB6BLK	6mm 1/4" Tubing	10.5' or 3.2 m
08T666N	6-6-6 Tee	1
09BDCAP	Dust Cap	1
09MBLU1	6mm 1/4" Male Conn	1
08CAP6	End Cap	2





Battery Watering Technologies

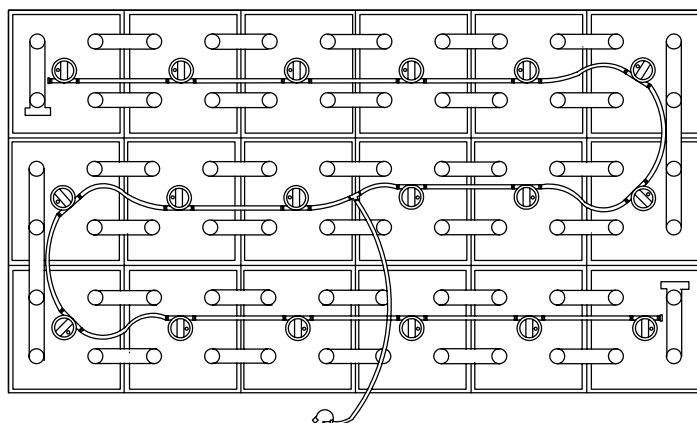
# Battery Drawings

Visit our website at: [www.batterywatering.com](http://www.batterywatering.com)  
to view a complete library of battery diagrams.

Please put the drawing number on your order.

Drawing # B-18-21-LP-10

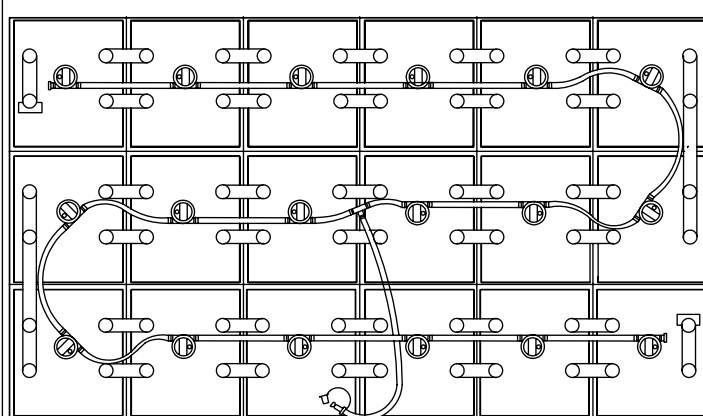
**18 Cell - 21 Plate** (with or without cover) Approximate Tray Size: 38.25 x 24.65



Part #	Description	Quantity
Various	Low Profile Valve	18
08TUB6BLK	.6mm 1/4" Tubing	11' or 3.35 m
08T666N	6-6-6 Tee	1
09BDCAP	Dust Cap	1
09MBLU1	6mm 1/4" Male Conn	1
08CAP6	End Cap	2

Drawing # B-18-23-LP-11

**18 Cell - 23 Plate** (with or without cover) Approximate Tray Size: 38.25 x 27



Part #	Description	Quantity
Various	Low Profile Valve	18
08TUB6BLK	.6mm 1/4" Tubing	11.5 or 3.5 m
08T666N	6-6-6 Tee	1
09BDCAP	Dust Cap	1
09MBLU1	6mm 1/4" Male Conn	1
08CAP6	End Cap	2

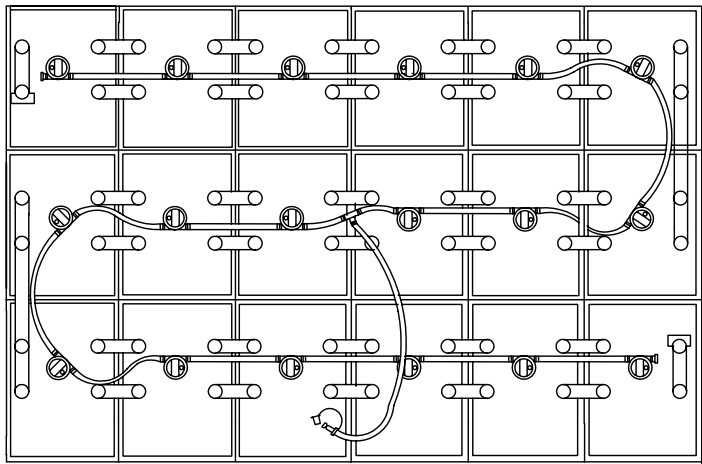
# Battery Drawings

*Please follow the drawing precisely as shown.*

*Note: Remove battery caps, lay string of valves on battery as shown in the diagram below. Snap each valve into the corresponding cell. Make sure all tubing remains unobstructed. Always water battery after charging is complete. **Please put the drawing number on your order.***

**Drawing # B-18-25-LP-12**

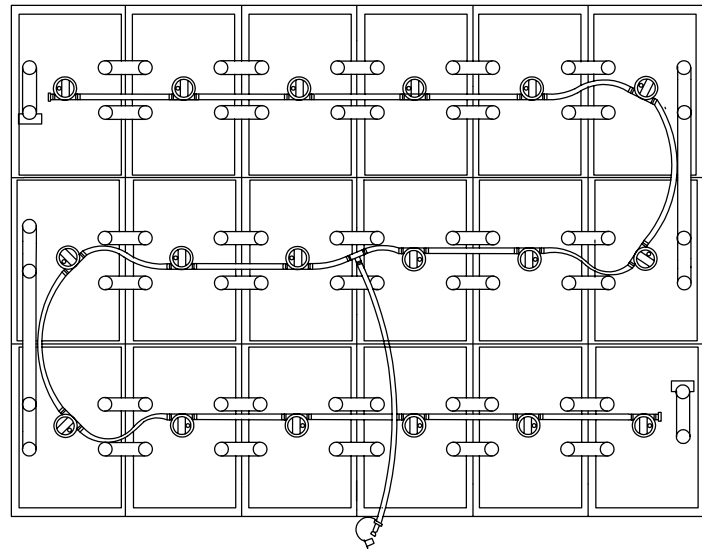
**18 Cell - 25 Plate** (with or without cover) *Approximate Tray Size: 38.25 x 29.20*



Part #	Description	Quantity
Various	Low Profile Valve	18
08TUB6BLK	6mm 1/4" Tubing	13' or 3.96 m
08T666N	6-6-6 Tee	1
09BDCAP	Dust Cap	1
09MBLU1	6mm 1/4" Male Conn	1
08CAP6	End Cap	2

**Drawing # B-18-27-LP-13**

**18 Cell - 27 Plate** (with or without cover) *Approximate Tray Size: 38.25 x 31.75*



Part #	Description	Quantity
Various	Low Profile Valve	18
08TUB6BLK	6mm 1/4" Tubing	14' or 4.27 m
08T666N	6-6-6 Tee	1
09BDCAP	Dust Cap	1
09MBLU1	6mm 1/4" Male Conn	1
08CAP6	End Cap	2



Battery Watering Technologies

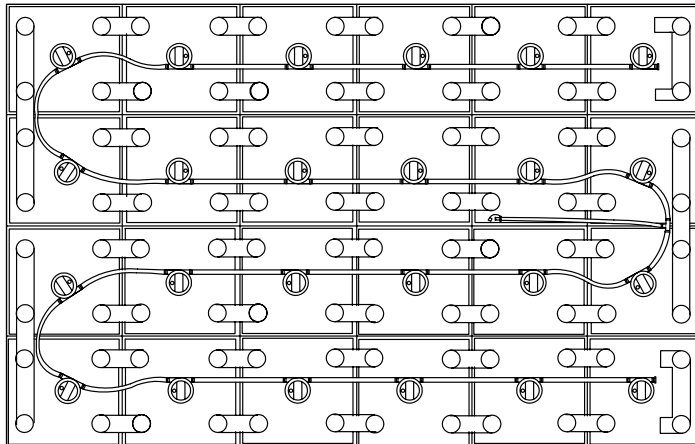
# Battery Drawings

Visit our website at: [www.batterywatering.com](http://www.batterywatering.com)  
to view a complete library of battery diagrams.

Please put the drawing number on your order.

Drawing # B-24-19-LP-18

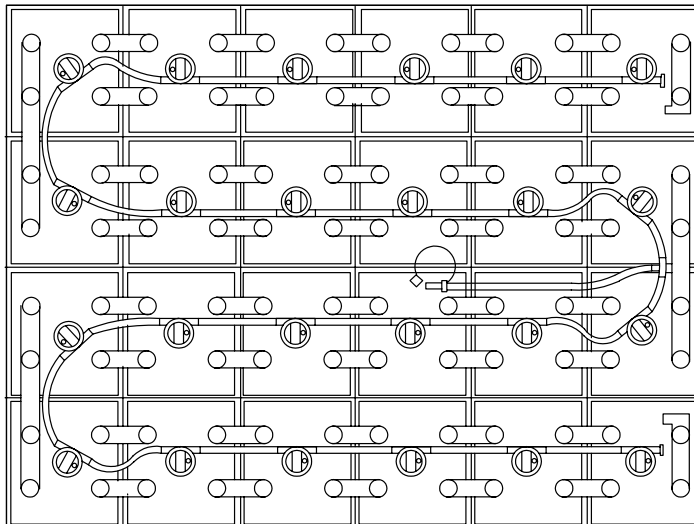
**24 Cell - 19 Plate** (with or without cover) Approximate Tray Size: 38 x 29.75



Part #	Description	Quantity
Various	Low Profile Valve	24
08TUB6BLK	6mm 1/4" Tubing	16' or 4.88 m
08T666N	6-6-6 Tee	1
09BDCAP	Dust Cap	1
09MBLU1	6mm 1/4" Male Conn	1
08CAP6	End Cap	2

Drawing # B-24-21-LP-19

**24 Cell - 21 Plate** (with or without cover) Approximate Tray Size: 38 x 32.69



Part #	Description	Quantity
Various	Low Profile Valve	24
08TUB6BLK	6mm 1/4" Tubing	17' or 5.18 m
08T666N	6-6-6 Tee	1
09BDCAP	Dust Cap	1
09MBLU1	6mm 1/4" Male Conn	1
08CAP6	End Cap	2

# Golf Valve Guide

- Golf
- Walkie/Hand Trucks
- GSE Airline Tugs
- Sweeper Scrubbers
- Zambonis
- RV's
- Boats

MANUFACTURER	BATTERY VOLTAGE	BATTERY	VALVE
Centennial Battery	6 volt	GC-2	VB-TBB
	8 volt	GC-8	VB-TBB
Crown Battery	6 volt	CR-205	VB-TBB
	6 volt	CR-220	VB-TBB
	6 volt	CR-235	VB-TBB
	6 volt	CR-240	VB-TBB
	6 volt	CR-260	VB-TBB
	8 volt	CR-150	VB-TBB
	8 volt	CR-165	VB-TBB
	8 volt	CR-190	VB-TBB
	12 volt	CR-GC155	VB-TBY
East Penn	6 volt	GC10	VB-TBB
	6 volt	GC15	VB-TBB
	6 volt	GC25	VB-TBB
	6 volt	GC25G	VB-TBB
	8 volt	GC8V	VB-TBB
Energizer	8 volt		VB-TBB
Exide Battery	6 volt	GC135	VB-TBB
	6 volt	GC145	VB-TBB
	8 volt	GC8V-110	VB-TBB
Interstate Battery	6 volt		Call for valve type
Interstate / US Battery	8 volt		VB-TBB
Interstate / JCI	8 volt		VB-TBB
Johnson Controls	6 volt		VB-TBB
	6 volt		VB-TBY
	8 volt		VB-TBB
Surrette Battery			VB-TB5S
Trojan	6 volt	T-105, T-105 Plus	VB-TBB
	6 volt	T-605	VB-TBB
	6 volt	T-125, T-125 Plus	VB-TBB
	6 volt	T-145, T-145 Plus	VB-TBB
	6 volt	L16	VB-TB5S
	8 volt	T-875	VB-TBB
	8 volt	T-890	VB-TBB
	8 volt	Ranger™ 160	VB-TBB
	8 volt	Traveler™ 8 V	VB-TBB
	12 volt	T-1260 Plus	VB-TBB
	12 volt	T-1275 Plus	VB-TBB
	12 volt	T-1275	VB-TBY
US Battery	6 volt	US 1800 XC	VB-TBB
	6 volt	US 2000 XC	VB-TBB
	6 volt	US 2200 XC	VB-TBB
	6 volt	US 125 XC	VB-TBB
	6 volt	US 145 XC	VB-TBB
	6 volt	L16	VB-TBB
	8 volt	US 8VGC XC	VB-TBB
	8 volt	US 8VGC XC	VB-TBB
	8 volt	US 8VGCXC XC	VB-TBB
	12 volt	US 12V XC	VB-TBB
	12 volt	US 12V RX	VB-TBU

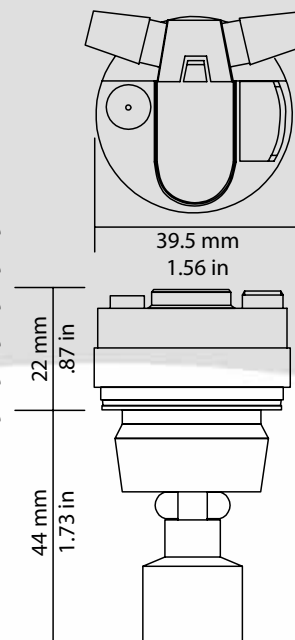
# Golf Valves & Other Applications

Profile Valve  
**VB-TBB**



## Centurion Series Basic Kits with Push-in VB-TBB Valves

<b>K600B-GLFBCTB</b>	6 cell system with VB-TBB valve
<b>K900B-GLFBCTB</b>	9 cell system with VB-TBB valve
<b>K1200B-GLFBCTB</b>	12 cell system with VB-TBB valve
<b>K1800B-GLFBCTB</b>	18 cell system with VB-TBB valve
<b>K2400B-GLFBCTB</b>	24 cell system with VB-TBB valve
<b>K3600B-GLFBCTB</b>	36 cell system with VB-TBB valve
<b>K4000B-GLFBCTB</b>	40 cell system with VB-TBB valve
<b>K6400B-GLFBCTB</b>	64 cell system with VB-TBB valve

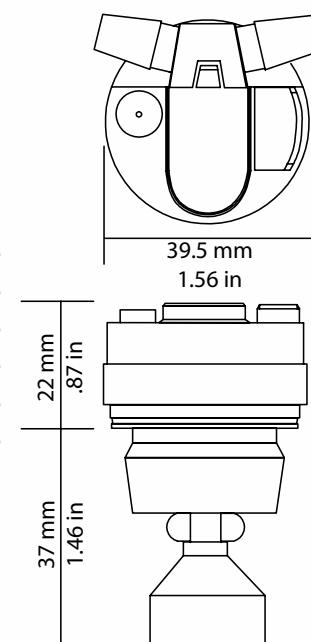


Profile Valve  
**VB-TBY**



## Centurion Series Basic Kits with Push-in VB-TBY Valves

<b>K600B-GLFBCTBY</b>	6 cell system with VB-TBY valve
<b>K900B-GLFBCTBY</b>	9 cell system with VB-TBY valve
<b>K1200B-GLFBCTBY</b>	12 cell system with VB-TBY valve
<b>K1800B-GLFBCTBY</b>	18 cell system with VB-TBY valve
<b>K2400B-GLFBCTBY</b>	24 cell system with VB-TBY valve
<b>K3600B-GLFBCTBY</b>	36 cell system with VB-TBY valve
<b>K4000B-GLFBCTBY</b>	40 cell system with VB-TBY valve
<b>K6400B-GLFBCTBY</b>	64 cell system with VB-TBY valve



- All kits ship with our blue connector (**09MBLU1**) unless specified in writing on the order.
- All golf kits ship with clear tubing unless specified in writing on the order.
- To order a competitor connector on the end of the kit, add suffix F-Flow-Rite® or G-Grey.
- Delivery items are not automatically added to orders. Only items specified on the purchase order will ship.
- Please refer to the Golf Valve Guide on page 16 to determine proper valve type.

# Golf Valves & Other Applications

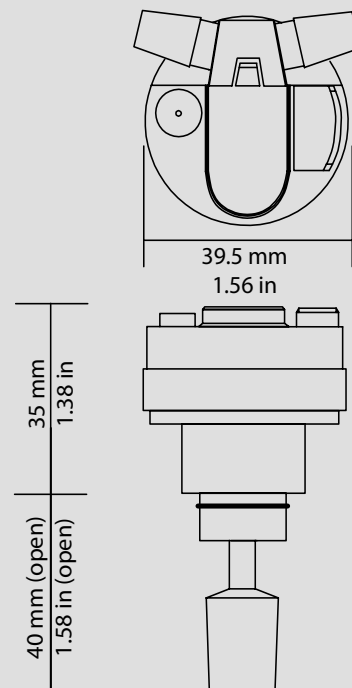
Valve for  
Group 24, 27, 31  
Push in Style with  
3/4" vent opening

## VC-TB4



### Partially Assembled Kits for Group 24/27/31 Batteries with Push-in VC-TB4 Valves

<b>CK600TB4</b>	6 cell system with VC-TB4 valve
<b>CK900TB4</b>	9 cell system with VC-TB4 valve
<b>CK1200TB4</b>	12 cell system with VC-TB4 valve
<b>CK1800TB4</b>	18 cell system with VC-TB4 valve
<b>CK2400TB4</b>	24 cell system with VC-TB4 valve
<b>CK3600TB4</b>	36 cell system with VC-TB4 valve
<b>CK4000TB4</b>	40 cell system with VC-TB4 valve
<b>CK6400TB4</b>	64 cell system with VC-TB4 valve



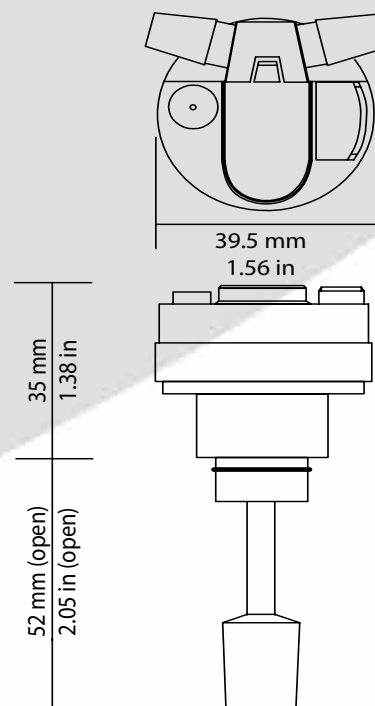
Valve for  
8D & 4D Batteries  
Push in Style with  
3/4" vent opening

## VC-TB5



### Centurion Series Basic Kits for 8D & 4D Batteries with Push-in VC-TB5 Valves

<b>CK600TB5</b>	6 cell system with VC-TB5 valve
<b>CK900TB5</b>	9 cell system with VC-TB5 valve
<b>CK1200TB5</b>	12 cell system with VC-TB5 valve
<b>CK1800TB5</b>	18 cell system with VC-TB5 valve
<b>CK2400TB5</b>	24 cell system with VC-TB5 valve
<b>CK3600TB5</b>	36 cell system with VC-TB5 valve
<b>CK4000TB5</b>	40 cell system with VC-TB5 valve
<b>CK6400TB5</b>	64 cell system with VC-TB5 valve



- All kits ship with our blue connector (**09MBLU1**) unless specified in writing on the order.
- All golf kits ship with clear tubing unless specified in writing on the order.
- To order a competitor connector on the end of the kit, add suffix F-Flow-Rite® or G-Grey.
- Delivery items are not automatically added to orders. Only items specified on the purchase order will ship.
- Please refer to the Golf Valve Guide on page 16 to determine proper valve type.



# Golf Valves & Other Applications

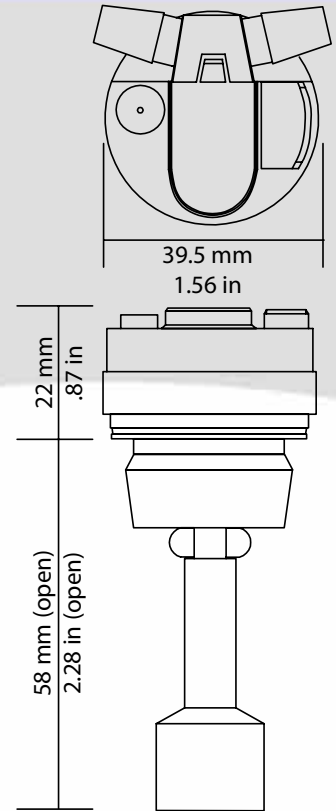
Valve for  
Rolls Surrette Batteries  
and Trojan 6v L16

**VB-TB5S**



## Centurion Series Basic Kits with Push-in VB-TB5S Valves

<b>K600TB5S</b>	6 cell system with VB-TB5S valve
<b>K900TB5S</b>	9 cell system with VB-TB5S valve
<b>K1200TB5S</b>	12 cell system with VB-TB5S valve
<b>K1800TB5S</b>	18 cell system with VB-TB5S valve
<b>K2400TB5S</b>	24 cell system with VB-TB5S valve
<b>K3600TB5S</b>	36 cell system with VB-TB5S valve
<b>K4000TB5S</b>	40 cell system with VB-TB5S valve
<b>K6400TB5S</b>	64 cell system with VB-TB5S valve



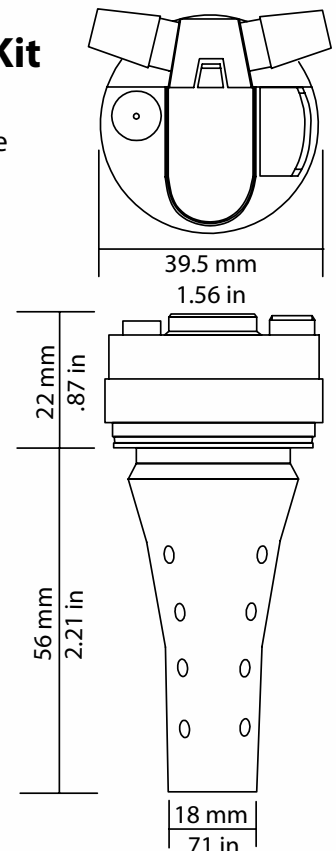
Valve for  
US Battery US 12v RX

**VB-TBU**



## Centurion Series Fully Assembled Kit with Push-in VB-TBU Valves

**GEZ48KITBCUS3** 24 cell system with VB-TBU valve



- All kits ship with our blue connector (**09MBLU1**) unless specified in writing on the order.
- All golf kits ship with clear tubing unless specified in writing on the order.
- To order a competitor connector on the end of the kit, add suffix F-Flow-Rite® or G-Grey.
- Delivery items are not automatically added to orders. Only items specified on the purchase order will ship.
- Please refer to the Golf Valve Guide on page 16 to determine proper valve type.

# Manual Pump

*The manual pump should be used when filling one or two batteries with water. The end is placed into a jug of distilled water to gently fill the batteries. It is a slower filling process, but an inexpensive option.*

Manual Pump  
**NTHANDP**



*Distilled water not included*

# Connector Guide

*There are a variety of connectors on the market. BWT makes the following recommendations on how to determine which connector will work with your watering system. Below is a simple way to determine if your connector is compatible. If you try to interchange the connectors with one that is not a match, it will not work.*

	Female	Male
BWT	 09FBLU1	 09MBLU1
Flow-Rite	 09FUM1	 09FUV6
Philadelphia Scientific Injector	 L70654	 09PHISCI-6
Philadelphia Scientific Stealth	 09FUM1	 09FUV6
Hansen	 09HANM-1	 09HANV-6
BFS / Grey	 09GRF1 or 09KUM1	 09GRM6 or 09KUV6
Watermaster	 09CUM1	 09CUV6

# Connectors

Battery Watering Technologies' products can be used with most competitor high and low pressure products. We offer a large array of connectors for kit and delivery items to meet our customer's needs.

Battery Watering Technologies®  
3/8" Female  
10mm Connector  
**09FBLU1**



Battery Watering Technologies®  
1/4" Male  
6mm Connector  
**09MBLU1**



Battery Watering Technologies®  
3/8" Male  
10mm Connector  
**09MBLU2**



Battery Watering Technologies®  
1/4" Female  
6mm Connector  
**09FBLU6**



Battery Watering Technologies®  
3/8" Male  
10mm Connector  
**09GRM1**



Previously Pt # **09KUV1**

Battery Watering Technologies®  
1/4" Male  
6mm Connector  
**09GRM6**



Previously Pt # **09KUV6**

Battery Watering Technologies®  
1/4" NPT  
Threaded  
Female Connector  
**09FBLUT3**



Use only with Direct Fill Link  
Part # DF72

Battery Watering Technologies®  
1/4" Female  
6mm Connector  
**09GRF6**



Previously Pt # **09KUM6**

Battery Watering Technologies®  
3/8" Female  
10mm Connector  
**09GRF1**



Previously Pt # **09KUM1**

3/8" Crimp Hose  
Clamp 10 mm  
**HCC500**





Battery Watering Technologies

# Connectors

## Trademark Acknowledgements:

Watermaster® is a registered trademark of Watermaster of America, Inc.

Flow-Rite® is a registered trademark of Flow-Rite Controls.

Hansen® is a registered trademark of Air Power, Inc.

Philadelphia Scientific® is a registered trademark of Philadelphia Scientific, LLC

**Philadelphia Scientific®**  
1/4" Male  
6mm Connector  
**09PHISCI-6**



**Philadelphia Scientific®**  
3/8" Male  
10mm Connector  
**09PHISCI-1**



**WaterMaster®**  
1/4" Female  
6mm Connector  
**09CUM6**



**WaterMaster®**  
1/4" Male  
6mm Connector  
**09CUV6**



**WaterMaster®**  
3/8" Female  
10mm Connector  
**09CUM1**



**WaterMaster®**  
3/8" Male  
10mm Connector  
**09CUV1**



*Requires clamp*

**Flow-Rite®**  
3/8" Female  
10mm Connector  
**09FUM1**



*Use with Flow-Rite® Millenium  
Requires **HCC500** clamp*

**Flow-Rite®**  
3/8" Male  
10mm Connector  
**09FUV1**



*Use with Flow-Rite® Millenium and  
Philadelphia Scientific® Stealth™  
Requires **HCC500** clamp*

**Flow-Rite®**  
1/4" Male  
6mm Connector  
**09FUV6**



*Use with Flow-Rite® Millenium and  
Philadelphia Scientific® Stealth™*

**Hansen®**  
1/4" Male  
6mm Connector  
**09HANV-6**



**Hansen®**  
3/8" Male  
10mm Connector  
**09HANV-1**



*Use with Flow-Rite™ and older C & D systems  
Requires **HCC500** clamp*

**Hansen®**  
3/8" Female  
10mm Connector  
**09HANM-1**



*Use with Flow-Rite™ and older C & D systems  
Requires **HCC500** clamp*

toll free: 1.877.522.5431

# Jumpers



Battery Watering Technologies

*This jumper is needed if you have a water delivery item with the grey connector (part **09GRF1**) and need to connect to a kit with the blue connector (part **09MBLU1**). **Jumpers can be made to/from any connector by special order.***

Female  
Connector Jumper  
**09FJUMP**



Replacement Parts

3/8" Female  
10mm Connector  
**09FBLU1**



3/8" Male  
10mm Connector  
**09GRM1**



Previously Pt # **09KUV1**

1/4" Male  
6mm Connector  
**09GRM6**



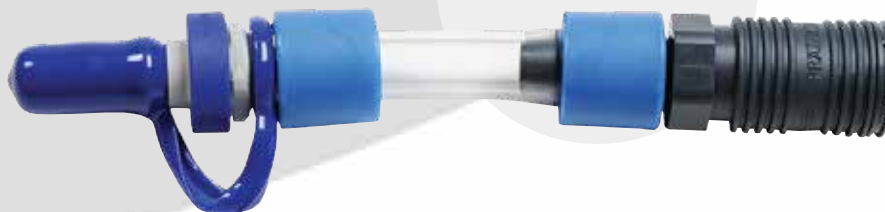
Previously Pt # **09KUV6**

Dust Cap - Blue  
**09BDCap**



*This jumper is needed if you have a kit with the grey connector (part **09GRM6**) and need to connect to a water delivery item with the blue connector (part **09FBLU1**).*

Male Connector  
Jumper  
**09MJUMP**



Replacement Parts

3/8" Female  
10mm Connector  
**09GRF1**



Previously Pt # **09KUM1**

3/8" Male  
10mm Connector  
**09MBLU2**



Dust Cap - Blue  
**09BDCap**





# Filling Tubes for Kits



Filling Tube  
for 12 Cell Kit  
**09FIL12**  
**Grey Connector**  
24" (610 mm) tubing  
with **09GRM6**  
grey connector



Filling Tube  
for 12 Cell Kit  
**09FIL12N**  
**Blue Connector**  
24" (610 mm) tubing  
with **09MBLU1**  
blue connector



Filling Tube  
for 18 Cell Kit  
**09FIL18**  
**Grey Connector**  
24" (610 mm) tubing  
with **09GRM6**  
grey connector



Filling Tube  
for 18 Cell Kit  
**09FIL18N**  
**Blue Connector**  
24" (610 mm) tubing  
with **09MBLU1**  
blue connector



Filling Tube  
for 24 Cell Kit  
**09FIL24**  
**Grey Connector**  
36" (914 mm) tubing  
with **09GRM6**  
grey connector



Filling Tube  
for 24 Cell Kit  
**09FIL24N**  
**Blue Connector**  
36" (914 mm) tubing  
with **09MBLU1**  
blue connector

## Replacement Parts



3/8" 10mm Filter  
**09FTR1**  
use with 3/8"  
10mm tubing

Previously Pt # **09FIL1**



Dust Cap - Blue  
**09BDCAP**



1/4" Male  
6mm Connector  
**09GRM6**

Previously Pt # **09KUV6**



1/4" Male  
6 mm Connector  
**09MBLU1**



1/4" 6mm Filter  
**09FTR6**  
use with 1/4"  
6mm tubing

Previously Pt # **09FIL6**

1/4" Tubing  
6mm  
Sold by the foot  
300 feet (91.44 m)  
per roll

**08TUB6BLK**



1/4" Clamless Tee  
6mm

**08T666N**



Filling Tubes for Kits

# Standard Direct Fill Link

The direct fill link has a built-in flow indicator and pressure regulator. Pressure is reduced down to 10 psi. Maximum 100 psi from source into DFL.

**This is our standard direct fill link that works with BWT low profile watering systems that have the 09MBLU1 or 09MBLU2 quick connects.**



Direct Fill Link  
**DF72**



Replacement  
Front End  
**09FRTL72**

Female  
Quick Connect  
**L70654**



Quick Connect  
Male Adapter  
**L70655**



10 PSI  
Pressure Regulator  
**PRG915**



Handle  
**GHAN2**



Flow Indicator  
**09FWM72A**



1/4" NPT  
Threaded  
Female Connector  
**09FBLUT3**



**Only water fully charged batteries!**



Battery Watering Technologies

# Optional Direct Fill Links

*DF72 not recommended for use with Philadelphia Scientific® injector systems or Watermaster® systems.*



**BWT Grey**

Direct Fill Link  
with 09GRF1  
Connector  
**DF72G**



Front End  
Replacement for  
DF72G  
**09FRTL72G**



**Flow Rite®**

Direct Fill Link  
with 09FUM1  
Connector  
**DF72F**



Front End  
Replacement for  
DF72F  
**09FRTL72F**



**Hansen®**

Direct Fill Link  
with 09HANM-1  
Connector  
**DF72H**



Front End  
Replacement for  
DF72H  
**09FRTL72H**



Flow Indicator  
**09FWM72B**



Handle  
**GHAN2**



10 PSI  
Pressure Regulator  
**PRG915**



Female  
Quick Connect  
**L70654**



Quick Connect  
Male Adapter  
**L70655**

Optional Direct Fill Links

toll free: 1.877.522.5431

# Manual Delivery Gun



Battery Watering Technologies

*The manual gun cannot be used with automatic watering systems. It is used to manually fill each cell one at a time. In addition, it must have pressure to operate properly.*

**Only water fully charged batteries!**



5/8" (15.88 mm)  
End

Manual Gun

**GMAN1**

- Fills batteries quickly at approximately 1.7 GPM (6.4 l/m)
- Flow diffuser slows the rapid water flow to a gentle spray
- Minimum incoming water pressure is 15 psi
- Nozzle diameter is 0.67" (1.7 cm / 17 mm). It fits into our flip-top vent caps, as well as all standard quarter-turn, bayonet and DIN openings.
- Reliable automatic shut-off fills to the correct level. Shutoff is powered by the water. No solenoids, no electronics, no wiring. Unique design eliminates post shut-off drip.
- Rugged ABS plastic industrial design with a comfortable, easy to squeeze handle.
- 45° degree nozzle is angled to make the gun comfortable to use - no awkward bending over the batteries to add water.
- Lock-in-place level control keeps fill depth from changing.
- Instant ROI. Compared to hand watering, the gun reduces labor costs.

Manual Delivery Gun

# Gravity Feed Tanks

Available in 2.5 gallon (9.46 liter) and 5 gallon (18.93 liter) sizes. The tank should be positioned at least three feet (.91 m) above the batteries to ensure proper water delivery. Tank shelves are sold separately on page 30. Note: Always disconnect tank after watering. Never leave it attached to the watering system.

**Only water fully charged batteries!**



5 Gallon  
18.93 Liters  
Gravity Feed Tank  
**NT2000GN**  
**Blue Connector**  
10"L x 10"W x 16"H  
.25m x .25 m x .41m  
10' (3 m) fill line



Combo Tank and Shelf  
5 Gallon Tank  
18.93 Liters  
**TSC200N**  
**Blue Connector**



2.5 Gallon  
9.46 Liters  
Gravity Feed Tank  
**NT2212GF**  
**Blue Connector**  
10"L x 10"W x 10"H  
.25m x .25 m x .25m

5 Gallon Tank with Optional Connectors

Part Number	Ships with Connector
<b>NT2000G</b>	<b>09GRF1</b>
<b>NT2000GFR</b>	<b>09FUM1</b>
<b>NT2000GWM</b>	<b>09CUM1</b>
<b>NT2000GPS</b>	<b>09PHISCI-1 (cannot be used with injector systems)</b>
<b>NT2000GHAN</b>	<b>09HANM-1</b>

2.5 Gallon  
9.46 Liters  
Gravity Feed Tank  
**NT2212GFGREY**  
**Grey Connector**  
10"L x 10"W x 10"H  
.25m x .25 m x .25m  
5' (1.5 m) fill line  
(Not Shown)

Combo Tank  
and Shelf  
5 Gallon Tank  
18.93 Liters  
**TSC2000**  
**Grey Connector**  
(Not Shown)

3/8" 10mm Filter  
**09FTR1**  
use with 3/8"  
10mm tubing



Previously Part # **09FIL1**

Replacement  
Tubing - Front End  
For 5 Gallon /  
18.93 Liter  
**Grey Connector**  
**09FILTK**

Replacement  
Tubing - Front End  
For 5 Gallon /  
18.93 Liter  
**Blue Connector**  
**09FILTKN**

Replacement  
Tubing - Front End  
For 2.5 Gallon /  
9.46 Liter  
**Grey Connector**  
**09FILTK2**

Replacement  
Tubing - Front End  
For 2.5 Gallon /  
9.46 Liter  
**Blue Connector**  
**09FILTKN3**

Small  
Replacement Cap  
**NTSCAP**



Gravity Feed Tanks

toll free: 1.877.522.5431



# Auto-Fill Tank and Tank Shelves

The tank should be positioned at least three feet above the batteries to ensure proper water delivery.

Tank Shelves are sold separately unless ordering tank/shelf combo on page 29.

Always disconnect tank after watering.

Never leave it attached to the watering system.



Tank Shelf  
Wall Mount  
**S2000T**

The auto-fill tank is used in applications where the water supply would be plumbed directly into the tank. There is no need to fill the tank manually. This would be ideal when using the **FC1000** Charger Control (see page 35).



Tank Shelf  
Pole Mount  
**S2000TP**



5 Gallon  
18.93 Liters  
Auto-Fill Tank  
**NT2000AFB**  
**Blue Connector**  
10"L x 10"W x 16"H  
.25m x .25 m x .41m

5 Gallon  
18.93 Liters  
Auto-Fill Tank  
**NT2000AFG**  
**Grey Connector**  
10"L x 10"W x 16"H  
.25m x .25 m x .41m  
(Not Shown)

Replacement Parts  
for Gravity Feed and  
Auto-Fill Tanks

3/8" Tubing  
10mm  
Sold by foot  
**08TUB1**



Previously Pt # **08SCH1**  
Available as shown  
100' (30.48 m) roll

Flow Indicator  
3/8" 10 mm  
**09FWM1**



Previously Pt # **09FLI1**

3/8" Female  
10mm Connector  
**09FBLU1**



3/8" Female  
10mm Connector  
**09GRF1**



Previously Pt # **09KUM1**

3/8" 10mm Barb  
x 3/4 (19.05mm)  
npt  
**62066**



Reg Hose  
Clamp  
**HC5000**



Small  
Replacement Cap  
**NTSCAP**







# Aqua Sub Carts

Cart can be used with most competitor's systems. See page 27 for options.  
It cannot be used with injector systems or gravity only systems.

## Battery Watering Technologies

- Automatic shut off demand style pump
- Charger included (installed in battery box)  
Charger is intended for 120v/60 hz AC  
Contact us if voltage requirements are different
- Direct fill link and pressure regulator are included
- 15 and 25 gallon (56.78 liter and 94.64 liter) tank available
- Rugged steel construction ensures a trouble-free system
- Tough powder coat finish
- Heavy duty industrial wheels
- Manual gun option available
- Box size for shipping:  
48" x 24" x 24"  
1219.20 x 609.60 x 609.60 mm
- **Battery not included - Requires 24 DCM Battery**
- Approximate Shipping Weight Empty:  
15 Gallon (56.78 Liter) : 60 lbs (27.22 kg)  
25 Gallon (94.64 Liter) : 70 lbs (31.75 kg)



15 Gallon  
56.78 Liters  
Aqua Sub Cart  
**NC5000PN**  
Blue Connector  
(Not Shown)

25 Gallon  
94.64 Liters  
Aqua Sub Cart  
**NC5250PN**  
Blue Connector  
(Shown)

15 Gallon  
56.78 Liters  
Aqua Sub Cart  
**NC5000P**  
Grey Connector  
(Not Shown)

25 Gallon  
94.64 Liters  
Aqua Sub Cart  
**NC5250P**  
Grey Connector  
(Not Shown)

15 Gallon  
56.78 Liter  
Aqua Sub Cart  
with Manual Gun  
**NC5000PN-MAN**  
(not shown)

25 Gallon  
94.64 Liter  
Aqua Sub Cart  
with Manual Gun  
**NC5250PN-MAN**  
(not shown)



3/4" GHT to  
3/8" Barb  
19mm GHT to  
10mm Barb  
**63163**  
(not shown)

Direct Fill Link  
**DF72**  
Blue Connector  
**DF72G**  
Grey Connector  
(not shown)

Direct Fill Link  
with 12 foot hose  
**DFHOSC**  
Grey Connector  
(Not Shown)

Direct Fill Link  
with 12 foot hose  
**DFHOSC**  
Blue Connector  
(Not Shown)



Battery Box  
**BB5000**  
(not shown)

Charger  
**BC5000**  
(not shown)

Black Hose  
**BH5000**  
(not shown)

Pump  
**PM5000**  
(not shown)

25 gallon  
94.64 Liter  
Tank only  
**TK5250**  
(not shown)

15 gallon  
56.78 Liters  
Tank only  
**TK5000**  
(not shown)

Swivel Wheel  
**SV5000**  
(not shown)

Straight Wheel  
**SW5000**  
(not shown)

Handle Bar  
**HB5000**  
(not shown)

Frame  
**FR5000**  
(not shown)

# Aqua Sub Jr Carts



## Battery Watering Technologies

8 Gallon  
30.28 Liter  
Aqua Sub Jr Cart  
**NC5080PN**  
Blue Connector  
(Shown)

8 Gallon  
30.28 Liter  
Aqua Sub Jr Cart  
**NC5080P**  
Grey Connector  
(Not Shown)

The Aqua Sub Jr.™ is lightweight, durable and great for small and medium jobs. The two-wheeled configuration handles like a piece of luggage. It rolls easily and is powered by a 12 volt battery that is included and mounted in the tank. Charger included is intended for 120v/60hz AC. Please contact us if voltage requirements are different.

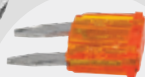
*Dimensions: 18" x 15" x 22 3/4"*  
(.45m x .38m x .57m)



8 Gallon  
30.28 Liter  
Aqua Sub Jr Cart  
with Manual Gun  
**NC5080PN-MAN**  
(not shown)

12 volt 5 Amp  
Replacement  
Battery

**ASJ5157209**



5 Amp Fuse  
**5157204**



Lid  
**5058188**



Handle  
**5078207**



3/4" GHT to 3/8"  
19 mm GHT to 10 mm  
Barb

**63163**



Filter Screen  
**09FIL2**



Threaded  
Female Connector  
**09FBLUT3**



Braided Tubing  
3/8" x .575  
10mm x 14.61mm  
**PW-HOSEM**



Replacement  
Charger  
**BC50008**



Female  
Quick Connect  
**L70654**



Quick Connect  
Male Adapter  
**L70655**



10 PSI  
Pressure Regulator  
**PRG915**



Reg Hose  
Clamp 3/8" 10 mm  
**HC5000**



Barrell style  
Replacement  
Charger  
**BC50009**



Aqua Sub Jr Carts

# Water Deionizer

Deionizer  
Water Kit

## PW-1800

*Hose included*

12' (3.66 m) Hose to  
Delivery System  
6' (1.83 m) Hose to  
Water Supply



The deionizer can easily and inexpensively remove harmful impurities from the water.

**Easy Installation** – Simply attach the bracket to a wall with four bolts. Connect the input and output hose. Insert the probe into the fitting on top of the housing and mount the display on the back of the unit.

**Quick Check Monitor**- Monitors the water output and tells you when the cartridge needs to be replaced. Push the button to see if it is time to replace the cartridge.

**Cartridge Replacement** – No tools are needed. To replace the cartridge, unscrew the canister and put in the new one!

If water has particulates or sediment, a pre-filter is recommended. At three grains per gallon of total dissolved solids you can expect 1000 gallons or 3785.4 liters of capacity.

Our deionizer comes with an input and output hose. It connects to your choice of direct fill link, manual gun, or an approved competitor filling device.

Shipping Weight: 28 lbs (12.7 kg)

Braided Hose  
5/8" 15.88 mm  
Sold by the foot

## PW-HOSE

Fittings Sold  
Separately



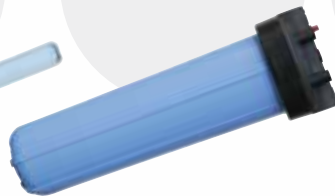
Housing Tool  
used to tighten lid  
on housing

## PW-SW4



Deionizer #20  
Case Housing

## PW-CASE



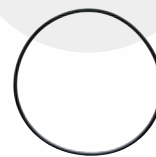
Hose Clamp  
3/8" to 7/8"  
10 mm to 22.22 mm

## PW-CLAMP



O-ring gasket  
for PW-1800 Housing

## PW-151122



Bracket

## PW-BR



Water Quality  
Tester

## WQT



PW-1800  
Deionizer  
Replacement  
Cartridge

## PWRC-1800



*Deionizer replacement  
cartridge is not compatible  
with other brands.*

Purity Light  
Replacement for  
Battery Operated Unit

## PW-LIT2



Purity Light  
Replacement for  
Plug-in Unit

## PW-LIT



Replacement Cartridge for  
Competitor Deionizers

## DW-CAR



*Deionizer replacement  
cartridge is not compatible  
with PW-1800 Deionizer*

Water Deionizer

toll free: 1.877.522.5431

# i-Lite™ Sensor



Battery Watering Technologies

The i-Lite™ sensor improves battery maintenance by alerting operators with the brightest L.E.D. visual indication when it is time to water the batteries. If the indication is ignored, the sensor is so smart, it can tell the operator how long the battery went without water.

i-Lite™ Sensor  
Standard  
**BSVA1000**



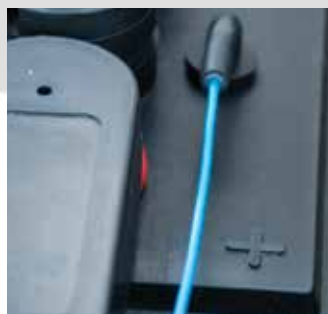
i-Lite™ Sensor  
Remote Dash Mount  
**BSVA2000**



Showing electrolyte level is ok



Water is needed



Sensor Probe

- Light is 1/2" in diameter and very bright
- Low current draw will not drain the battery
- Probe is made from lead
- Operating voltage is 8-12 V Nominal
- Acceptable Exposure Range -20° F TO 160° F (-29° C to 71° C)
- Electronic housing is separate from the sensor probe
- Multiple fuses - eliminates possibility of unrestricted current flow in any direction
- Sensor is protected against transient voltages and incorrect polarity
- No calibration required
- This product is UL Classified.





# Automatic Water Control

Automatic Watering Control

**FC1000-24 (24 volt)**

**FC1000-36 (36 volt)**

**FC1000-48 (48 volt)**

**FC1000-80 (80 volt)**



1/4" Tubing  
6mm  
Sold by the foot

**08TUB6**  
(sold separately)



Previously Pt # **08SCH6**  
Available by the roll  
300' (91.44 m)

## Hydrometer

The hydrometer is used to check specific gravity. It can be used on batteries with and without automated systems by removing the vent caps.

Hydrometer  
1.10-1.30 Range

**09HYCT**



Hydrometer  
Replacement Tube

**09HYDE**

The automatic watering control will monitor the battery voltage to determine when the battery charge is complete. After the charge has been completed, the control will allow water to flow to the battery for a fixed period of time depending on the battery voltage.

The control can be mounted to the side or top of the charger, or on the front panel or door of the charger.

The control is designed to operate with a gravity feed or pressure regulated supply system up to 15 psi. The plumbing supply lines should be copper, PVC, or plastic tubing.

The water supply line to the battery should only be connected once a week—not every time the battery is charged.

1/4" Female  
6mm Connector  
**09FBLU6**  
(sold separately)



1/4" Female  
6mm Connector  
**09GRF6**  
(sold separately)



Previously Pt # **09KUM6**

1/4" 6mm  
Flow Indicator  
**09FWM6**  
(sold separately)



Previously Pt # **09FLI1-4**

## Refractometer

Refractometer  
**09REFR**



The refractometer is used to measure fluid concentrations of liquids. It can be used to measure specific gravity as well as determine the identity of unknown substances based on their refractive index.

# Technical Service Kit

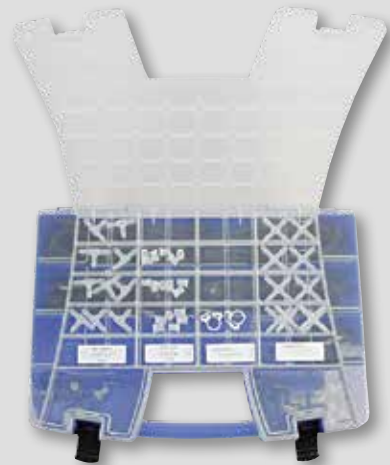
The technical service kit is a great tool to have on every service truck in the field. It saves time and money by enabling Service Technicians to make repairs on the spot. Dual compartments make it great for storing both small parts as well as the larger tubing and valves.



Battery Watering Technologies



Technical Service Kit  
**TK1000LP**



Also Available:

Empty Technical Service  
Kit Box

**55328**

Assemble the parts you need



Part Number	Description	Quantity
<b>08T666N</b> .....	Clampless Tee 1/4" (6 mm) .....	10
<b>08CAP6</b> .....	End Cap .....	18
<b>VB-TB4</b> .....	Centurion Valve 40 .....	10
<b>VB-TB5</b> .....	Centurion Valve 50 .....	2
<b>09FBLU1</b> .....	3/8" Female 10mm Connector .....	2
<b>09MBLU1</b> .....	1/4" Male 6mm Connector .....	6
<b>09BDCAP</b> .....	Dust Cap Blue .....	6
<b>HCC500</b> .....	Crimp Hose Clamp .....	2
<b>08TUB6BLK</b> .....	1/4" Tubing 6mm.. ..20 ft or 6.09 m	
<b>08KR66N</b> .....	1/4" Cross 6 mm .....	10

Technical Service Kit



# Clamps

Reg Hose  
Clamp  
**HC5000**



3/8" Crimp  
Hose Clamp  
**HCC500**



1/4" Crimp  
Hose Clamp  
**HCC400**



## Filters

1/4" 6 mm  
Filter  
**09FTR6**



Previously Pt # **09FIL6**

3/8" 10mm  
Filter  
**09FTR1**



Previously Pt # **09FIL1**

## Gaskets for Valves

1.5 mm  
Valve Gasket  
**09D15**



2.0 mm  
Valve Gasket  
**09D20**



## Flow Indicators

Flow Indicator  
**09FWM72A**



Use with *Standard*  
Direct Fill Links

Flow Indicator  
**09FWM72B**



Use with *Optional*  
Direct Fill Links

1/4" 6 mm  
Flow Indicator  
**09FWM6**



Previously Pt # **09FLI1-4**

Use with Automatic Watering  
Control and with  
WaterMaster® tanks

3/8" 10 mm  
Flow Indicator  
**09FWM1**



Previously Pt # **09FLI1**

Standard

# Adapters and Flip Top Vent Caps

Manual  
Bayonet Vent Cap  
**MC001**



Manual  
Push-In Vent Cap  
**MAA00**



Bayonet  
Conversion  
Adapter  
**09PUAD**



## Angles and Tees

Tee  
6 / 10 / 6  
**08T616N**



Previously Pt # **08T616**

Clampless Tee  
6 / 6 / 6  
**08T666N**



Previously Pt # **08T666**

Clampless Tee  
10 / 10 / 10  
**08T111N**



Previously Pt # **08T111**

Reducer  
10 / 6  
**08RED6N**



Previously Pt # **08RED6**

Y Fitting for  
1/4" ID  
**08Y666N**



Cross  
6 / 6 / 6 / 6  
**08KR66N**



Previously Pt # **08KR66**

Cross  
10 / 10 / 10 / 10  
**08KR11N**



Previously Pt # **08KR11**

6 means 6mm / 1/4" tubing connection  
10 means 10 mm / 3/8" tubing connection

## Caps

Dust Cap  
Blue  
**09BDCAP**



Dust cap for  
use with 09FUV6  
Connector  
**09BDCAPF**



End Piece  
**08CAP6**



Previously Pt # **08END6**



# Tubing

Battery Watering Technologies

**"Sold by the foot"  
Standard  
Industrial Tubing**  
1/4" (6 mm) BLACK  
Tubing  
Sold by the foot  
**08TUB6BLK**



**"Sold by the roll"  
Standard  
Industrial Tubing**  
Full roll of 1/4" (6mm)  
BLACK Tubing  
300 feet (91.44 meters)  
**08TUB6BLKRL**



12 feet  
3.66 meters  
Delivery Hose  
**HOSE-121**



Tubing  
Cutter  
**TUBECUT**



**Industrial  
Clear Tubing**  
Clear 6mm Tubing  
300 feet (91.44 meters)  
Sold by the foot  
**08TUB6**



Previously Pt # **08SCH6**  
Available by the roll  
300' (91.44 m)

3/8" Tubing  
10mm  
Sold by the foot  
**08TUB1**



Previously Pt # **08SCH1**  
Available by the roll  
100' (30.48 m)

**Golf Standard  
Clear Tubing**  
Clear 1/4" Tubing  
Sold by the foot  
**08TUB6K**



Available by the roll  
300' (91.44 m)

## Return Policy

### Battery Watering Technologies Return Policy

There is a restocking fee of 20% (\$25 minimum) for fully assembled kits. If you wish to return parts that are older than 60 days, they will be accepted at the discretion of Battery Watering Technologies management.

Please call 1.877.522.5431 to receive authorization for returns.

toll free: 1.877.522.5431

# Pressure Regulators



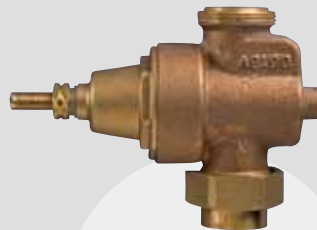
10 PSI  
Pressure Regulator\*

**PRG915**



35 PSI  
Brass Low Pressure  
Regulator

**PBR102LP**



50 PSI  
Brass Pressure Regulator

**PBR101**

Excessive pressure can cause valves to snap shut prematurely. Insufficient pressure will cause the cells to fill more slowly and will delay closing. Battery Watering Technologies offers a variety of pressure regulators to assist in controlling house pressure.

Since municipal water supplies vary in static pressure from very low to very high, we recommend filling through our delivery system that has a built in regulator to drop the static pressure at the connector down to 10 psi.

The **PRG915** is a 10 lb pressure regulator. It works between 10 and up to a max of 80 psi (it brings pressure down to 10 psi).

**\* This is the regulator that ships standard with the delivery items.**

If the municipal supply static pressure is above 90 psi, we recommend a brass regulator upstream to knock the incoming pressure down. If a municipal supply has a very low pressure (<20 psi), call Customer Service to discuss appropriate delivery items.

The brass regulator **PBR101** should be used in applications where house pressure is over 80 psi. It can handle up to 400 psi and is adjustable from 25-75 psi. The direct fill link would then be connected downstream to bring the pressure down to the required range.

The brass regulator **PBR102LP** is a low pressure regulator that is adjustable from 10-35 psi. It can be used with the automatic water control to regulate the pressure.

# Standard Warranty

## Battery Watering Technologies Standard Warranty

### ACCEPTANCE

Battery Watering Technologies is a division of FourShare, LLC herein referred to as the Company, located in Clemmons, North Carolina. The following terms and conditions of sale apply to all orders accepted by us regardless of any stipulations or conditions contained in orders submitted to us. Any such stipulations or conditions which attempt to create any warranties or other terms or conditions of sale not expressly stated herein are considered void and will not be honored by the Company.

### PRICE

The price herein is F.O.B. the Company, Clemmons, North Carolina. All prices and charges set forth herein are subject to change without notice by the Company in good faith, and all items purchased pursuant to this order shall be invoiced at our prices and charges in effect at the time of shipment. The Company reserves the right to correct any price or charge which is erroneously quoted.

### TAXES

Any tax imposed by federal, state or other governmental authority on the sale or purchase of the items pursuant to this order shall be paid by the buyer unless such taxes are specifically included in the price.

### PAYMENT

Payment in United States currency is due in full on the shipment date. If payment is not received by the Company in full within thirty (30) days from shipment date, all unpaid balances shall bear interest at the highest rate permitted by law. All payments are due and shall be made at the general offices of the Company in North Carolina. The acceptance of a late payment, with or without objection or reservation, shall not waive the right to claim interest for such breach nor constitute a waiver of the requirement of timely payment in the future.

### SHIPMENT

The buyer is responsible for all freight, transportation, insurance, shipping, storage, handling, or similar charges unless specifically agreed to the contrary by the Company in writing.

### DELIVERY

The Company will use all reasonable means to make shipment by the date specified in the order, if any. However, the Company shall not be liable for any delay in delivery or any failure due to causes beyond the control of the Company. This includes, but is not limited to, acts of God, war, riots, embargoes, domestic or foreign governmental regulations, fires, floods, labor difficulties, or inability to obtain shipping space or transportation.

### WARRANTY

The Company liability for or arising out of any defective or nonconforming equipment, service, or accessories is limited to repair or replacement or return of purchase price, FOB the Company sales office in Clemmons, North Carolina, which is agreed to be buyer's sole and exclusive remedy. All Company valves, floats, and gaskets are warranted to be free of defects in workmanship and materials for a period of five (5) years from date of shipment. Warranty date will be determined by invoice date. Warranty coverage outside North America shall be one (1) year; all other Company items are warranted to be free of defects in workmanship and materials for a period of one (1) year from date of shipment.

The above warranties are subject to the following terms and conditions: 1) Copy of original sales invoice to user is required; 2) Defective part to be returned to the Company to determine the true warranty cause; 3) Proper operating pressure and installation and maintenance instructions must be followed; 4) The Company products must be installed by an authorized Representative of the Company who has been trained in the proper installation and filling techniques; 5) Company products must be used with compatible Company filling device(s). **6) This warranty does not apply to products used in fast charge applications (request fast charge warranty if needed).**

Please call the Company for fast charge warranty information. Equipment and accessories not manufactured by the Company are warranted only to the extent of the original manufacturer's warranty, if any. Buyer acknowledges that the limitations and disclaimers herein described are conditions of sale and that they constitute the entire agreement between the parties regarding warranty or any other liability.

### INSPECTION

The buyer shall inspect the items sold pursuant to this order upon arrival at destination and shall notify the Company in writing of any nonconformity within fifteen (15) days from the date of arrival at destination, including such date of arrival. In the event of notification of a product defect, the product complained about must be returned to the Company for inspection.

### ACCELERATION

The Company may, whenever it deems itself insecure, demand immediate performance by buyer of all obligations imposed upon buyer by this contract, and may discontinue service immediately.

### ATTORNEYS FEES

If the indebtedness of buyer to the Company, represented by this order is collected by or through an attorney at law, the buyer agrees to pay reasonable attorney's fees as permitted by law.

### WAIVER

No provision of this order and no breach of any such provision shall be deemed waived by reason of any previous waiver, course of conduct or delay. The provisions of this order or any breach of any such provision may not be waived or modified except by a written instrument signed by the Company and the buyer. This order may not be cancelled, revised or in any way modified or amended except to the extent expressly stated in the written instrument containing such waiver, modification or amendment.

### DEFAULT

Upon default by buyer, the Company shall have all rights and remedies available under the North Carolina Uniform Commercial Code.

### GOVERNING LAW

It is acknowledged that this order shall be construed as an agreement between merchants. This agreement shall be governed by the internal laws of the State of North Carolina. The buyer agrees that the jurisdiction for the litigation of any controversy arising out of or in any way in relation to this order shall be the General Courts of Justice of the State of North Carolina.

### SEVERABILITY

If any provision herein shall be held invalid, all remaining provisions shall, nevertheless, be valid and effective. It is the intention of the parties that each provision hereof is stipulated separately in the event one or more of such provisions should be held invalid.



# Battery Watering Technologies

6645 Holder Road • Clemmons, NC 27012 • USA  
Ph: 336-714-0448 Fax: 336-714-0449 Toll Free: 877-522-5431  
[www.batterywatering.com](http://www.batterywatering.com) [freeinfo@batterywatering.com](mailto:freeinfo@batterywatering.com)

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