



Battery Watering Technologies

Golf Catalog: Edition 0814



Faster.

Reduce filling time by 90%

Safer.

Keep battery area safe and clean

Better.™

Improve battery life and performance

Table of Contents

Table of Contents

Ordering Instructions

How to Order.....	1
-------------------	---

Battery Watering Kits and Valves

Innovative Design	2
Golf Valve Guide.....	3
VBB Golf Valve and Basic Kits	4
Partially Assembled Kits	5
VB-TBY Golf Valves and Basic Kits	6
VB-TB5S and VB-TBU Valves and Basic Kits.....	7
VC-TB4 Valves and Partially Assembled Kits	8
VC-TB5 Valves and Basic Kits	9
Battery Drawings.....	10-16

Connectors

Connectors	17
Connector Guide	18
Jumpers	19

Delivery Items

Direct Fill Links	20
Manual Delivery Gun.....	21
2.5 Gallon Gravity Tanks	22
5 Gallon Gravity Tanks and Shelf.....	23
Manual Pump.....	24
Aqua Sub Cart: 25 Gallon	25
Aqua Sub Jr Cart: 8 Gallon	26

Accessories

Water Deionizer	27
i-Lite Sensor	28
Technical Service Kits.....	29

Parts

Miscellaneous Parts	30-31
Pressure Regulators	32

Policies

Warranty and Return Policy.....	33
---------------------------------	----

How to Order

toll free: 1.877.522.5431 • fax: 336.714.0449 • email: orders@batterywatering.com

There are three types of kits offered for golf cart batteries.

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

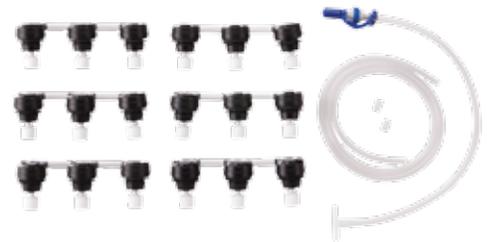
To place an order for a **Basic Kit**, determine the valve type needed by using the golf valve guide on page 3. You must know the battery make and model to use the valve guide. After determining the valve type, go to page 6 to determine the basic kit part number needed. All kits ship with the standard 09MBLU1 connector unless specified differently on your order.



Basic Kit

2. The **Partially Assembled Kit** - Valves are assembled into strings of 3 or 4. 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 golf valve guide on page 3. You must know the battery make and model before using the valve guide. After determining the valve type, go to page 7 to determine the partially assembled kit part number needed. All kits ship with the standard 09MBLU1 connector unless specified differently on your order.



Partially Assembled Kit

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 golf valve guide on page 3. You must know the battery make and model before using the valve guide. The drawing number is also required to place an order for a fully assembled kit. See pages 10-16 for our some of the most popular battery drawings. For a complete list of drawings, visit our web site at www.batterywatering.com. Then go to Technical Info / Golf Drawings on our site and enter the manufacturer, vehicle type, year, model, # cells, and battery voltage (see below example of site). All kits ship with the standard 09MBLU1 connector unless specified differently on your order.



Fully Assembled Kit

Water delivery items sold separately.

Golf Drawings List								
		Manufacturer	Vehicle Type	Year Model / Cells	Batteries	Battery Voltage		
Manufacturer	Vehicle	Year Model	Number of Cells	Number of Batteries	Battery Voltage	Battery Mfg.	Battery Type	Part Number
Almanor	Almanor	24	8	8	Tronix	T107	09M-BTC0C	
Almanor	Almanor	24	8	8	Tronix	T109Plus	09M-BTC0CPLUS	
American Sports Works	UTV	24	8	8	Tronix		09M-BTC0C	
Bad Boy	Buggy	24	8	8	Clover		09M-BTC0CIB	
Bad Boy	Classic	24	8	8	Tronix		09M-BTC0CIB	
Bad Boy	XTO	24	8	8	Clover		09M-BTC0CIBL	
California	Roadster	24	8	8	Tronix		09M-BTC0C	
California	Smith	24	8	8	Tronix	T880	09M-BTC0C	
Club Car	Club Car	18	8	8	Tronix		09M-BTC0C	
Club Car	Club Car	24	8	8	Tronix		09M-BTC0C	
Club Car	Club Car	24	8	8	UK-Clover		09M-BTC0CIB	

Visit www.batterywatering.com to view all golf drawings

toll free: 1.877.522.5431

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.

Internal Spark Arrestor

Multiple safety features, including our internal spark arrestor, makes our valve the safest on the market.

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

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.



Innovative Design

Golf Valve Guide

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
	6 volt	CR-370 (Scrubber)	VB-TBB
	8 volt	CR-150	VB-TBB
	8 volt	CR-165	VB-TBB
	8 volt	CR-190	VB-TBB
	12 volt	CR-GC150	VB-TBY
	12 volt	CR-GC155	VB-TBY
Duracell	6 volt	GC2	VB-TBB
East Penn (Deka)	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 Battery	12 volt		VB-TBB
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
Napa	6 volt		VB-TBB
	8 volt		VB-TBB
Surrette Battery			VB-TB55
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-TB55
	6 volt	T-105RE	VB-TB55
	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	

MANUFACTURER	BATTERY VOLTAGE	BATTERY	VALVE
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 8VGCE 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
Walkie/Hand Trucks
GSE Airline Tugs
Sweeper Scrubbers
Zambonis
RV's
Boats*

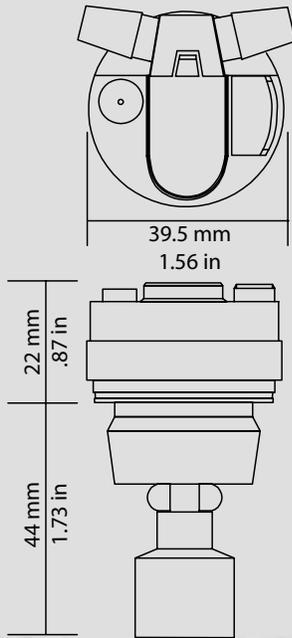
VB-TBB Golf Valve and Basic Kits

Centurion
Standard Valve
VB-TBB



*Pictured: **K1800B-GLFBCTB Basic Kit***

Male connector (09MBLU1) shown on fill tube end



Centurion Series Basic Kits

with Push-in VB-TBB Valves

K600B-GLFBCTB	6 cell system with VB-TBB valve
K900B-GLFBCTB	9 cell system with VB-TBB valve
K1200B-GLFBCTB	12 cell system with VB-TBB valve
K1800B-GLFBCTB	18 cell system with VB-TBB valve
K2400B-GLFBCTB	24 cell system with VB-TBB valve
K3600B-GLFBCTB	36 cell system with VB-TBB valve
K4000B-GLFBCTB	40 cell system with VB-TBB valve
K6400B-GLFBCTB	64 cell system with VB-TBB 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 3 to determine proper valve type.

Partially Assembled Kits



Pictured: **K1800B-GLFBCTBUS Partially Assembled Kit**
18 cell kit for 6 volt battery
Can be used for Crown, Deka, Trojan, and U.S. Batteries



Pictured: **K1200B-GLFBCTBUS Partially Assembled Kit**
12 cell kit for 6 volt battery
Can be used for Crown, Deka, Trojan, and U.S. Batteries



Pictured: **K2400B-GLFBCTBUS8 Partially Assembled Kit**
24 cell kit for 8 volt battery
Can be used for Crown, Exide, Interstate, and U.S. Batteries



Pictured: **K2400B-GLFBCTBUS Partially Assembled Kit**
24 cell kit for 6 volt batteries
Can be used for Crown, Deka, Trojan and U.S. Batteries



Not Pictured: **K2400B-GLFBCTBTJ8 Partially Assembled Kit**
24 cell kit for 8 volt battery
Can be used for Trojan Batteries

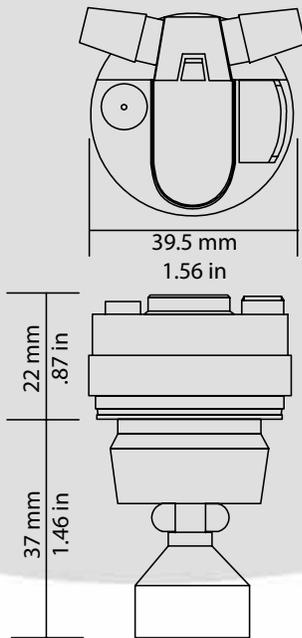
VB-TBY Golf Valves and Basic Kits

Centurion Valve for
Special Applications
VB-TBY



*Pictured: **K1200B-GLFBCTBY Basic Kit***
Male connector (09MBLU1) shown on fill tube end

VB-TBY Golf Valves and Basic Kits



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

K600B-GLFBCTBY	6 cell system with VB-TBY valve
K900B-GLFBCTBY	9 cell system with VB-TBY valve
K1200B-GLFBCTBY	12 cell system with VB-TBY valve
K1800B-GLFBCTBY	18 cell system with VB-TBY valve
K2400B-GLFBCTBY	24 cell system with VB-TBY valve
K3600B-GLFBCTBY	36 cell system with VB-TBY valve
K4000B-GLFBCTBY	40 cell system with VB-TBY valve
K6400B-GLFBCTBY	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 3 to determine proper valve type.

VB-TB5S and VB-TBU Kits

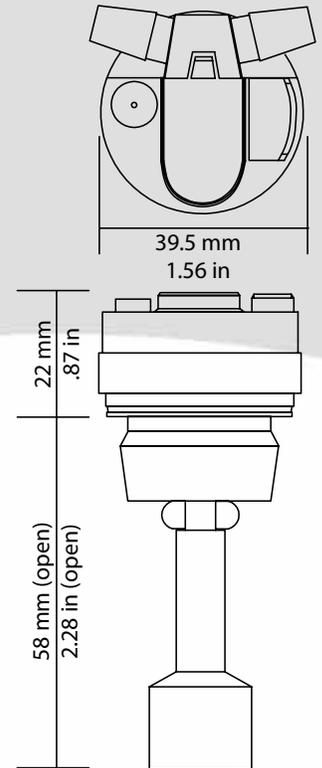
Valve for
Rolls Surrette Batteries
and Trojan 6v L16

VB-TB5S



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

K600B-GLFBCTB5S	6 cell system with VB-TB5S valve
K900B-GLFBCTB5S	9 cell system with VB-TB5S valve
K1200B-GLFBCTB5S	12 cell system with VB-TB5S valve
K1800B-GLFBCTB5S	18 cell system with VB-TB5S valve
K2400B-GLFBCTB5S	24 cell system with VB-TB5S valve
K3600B-GLFBCTB5S	36 cell system with VB-TB5S valve
K4000B-GLFBCTB5S	40 cell system with VB-TB5S valve
K6400B-GLFBCTB5S	64 cell system with VB-TB5S valve



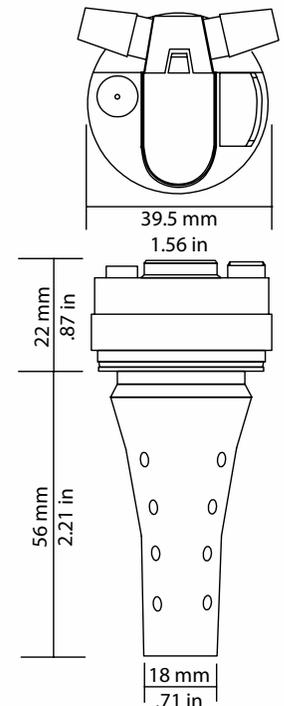
Valve for
US Battery US 12v RX

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 3 to determine proper valve type.

Partially Assembled Kits with VC-TB4

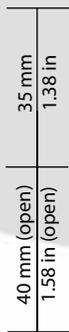
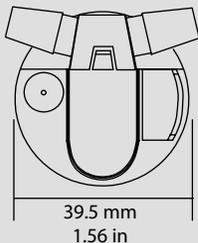
Centurion Valve for
Group 24, 27, 31
Push in Style with
3/4" vent opening

VC-TB4



Pictured: **CK1200TB4 Kit (Partially Assembled)**

Male connector (09MBLU1) shown on fill tube end



Partially Assembled Kits for Group 24 / 27 / 31 Batteries

CK600TB4 6 cell partially assembled kit for Group 24 / 27 / 31 batteries

CK1200TB4 12 cell partially assembled kit for Group 24 / 27 / 31 batteries

CK1800TB4 18 cell partially assembled kit for Group 24 / 27 / 31 batteries

CK2400TB4 24 cell partially assembled kit for Group 24 / 27 / 31 batteries

CK3600TB4 36 cell partially assembled kit for Group 24 / 27 / 31 batteries

- 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 3 to determine proper valve type.



Battery Watering Technologies

Basic Kits with VC-TB5



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

VC-TB5



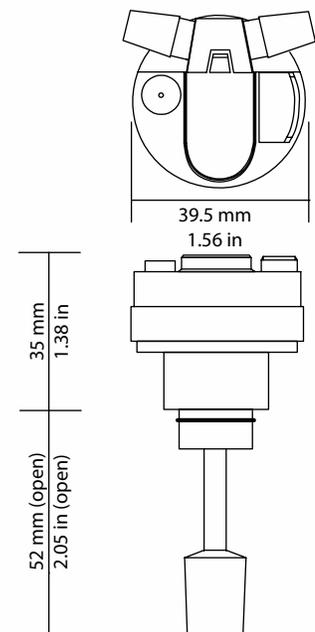
Pictured: **CK1200TB5 Basic Kit**

Male connector (09MBLU1) shown on fill tube end

Basic Kits for 8D & 4D Batteries

with Push-in VC-TB5 Valves

- CK600TB5** 6 cell kit for 8D / 4D batteries with VC-TB5 valve
- CK1200TB5** 12 cell kit for 8D / 4D batteries with VC-TB5 valve
- CK1800TB5** 18 cell kit for 8D / 4D batteries with VC-TB5 valve
- CK2400TB5** 24 cell kit for 8D / 4D batteries with VC-TB5 valve
- CK3600TB5** 36 cell kit for 8D / 4D batteries 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 3 to determine proper valve type.

Basic Kits with VC-TB5

toll free: 1.877.522.5431

Battery Drawings

Please follow the drawing precisely as shown.

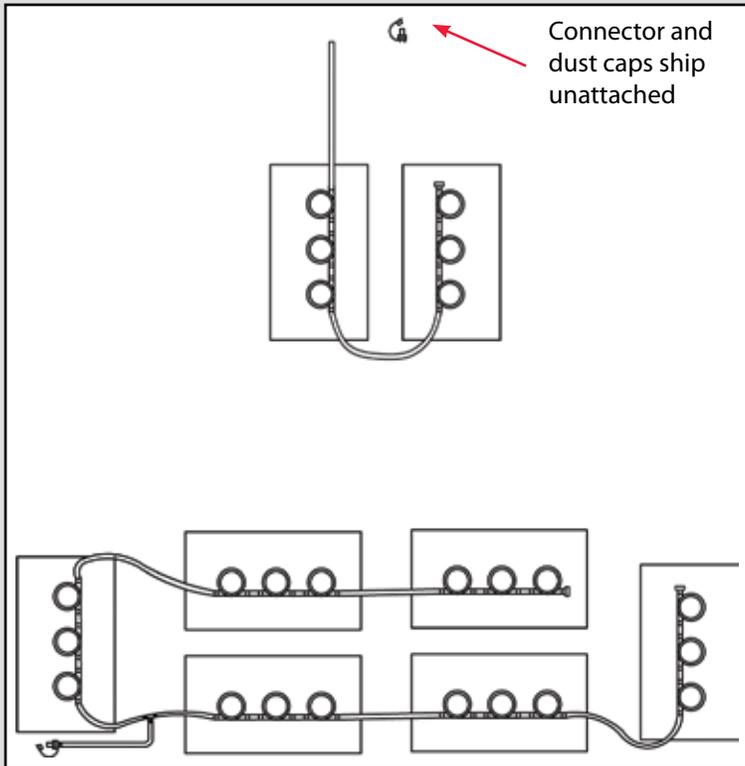
Note: Remove battery caps, lay string of valves on battery as shown in the diagram below. Snap each valve into the corresponding cell. Make sure all tubing remains unobstructed. Water batteries after charging is complete and never leave unattended. Always disconnect from water source after filling.

Please put the drawing number on your order.

Drawing # **GBB-KITBCTBX**

Bad Boy XTO with 8 - 6 Volt - Using Crown Batteries

Uses VB-TBB Valves

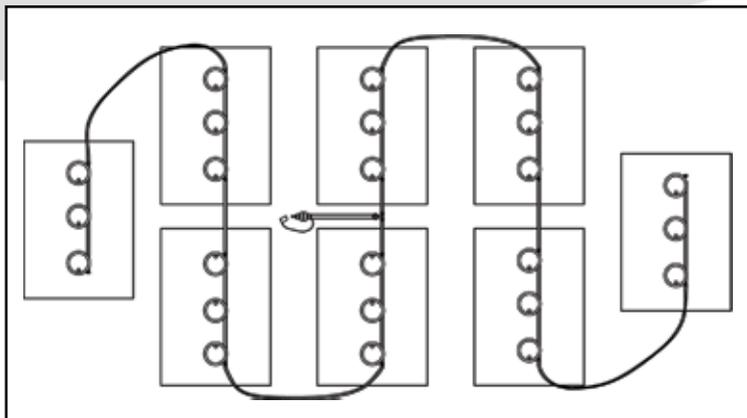


Part #	Description	Quantity
VB-TBB	Low Profile Golf Valve..	24
08TUB6	6mm 1/4" Tubing.....	9.66"
08T666N	6-6-6 Tee.....	1
09BDCAP ...	Dust Cap.....	2
09MBLU1 ...	6mm 1/4" Male Conn....	2
08CAP6	End Cap.....	3

Drawing # **GW48-KITCBC**

Bad Boy Buggies Classic / Western 48 Volt

Uses VB-TBB Valves



Part #	Description	Quantity
VB-TBB	Low Profile Golf Valve..	24
08TUB6	6mm 1/4" Tubing.....	9.70"
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

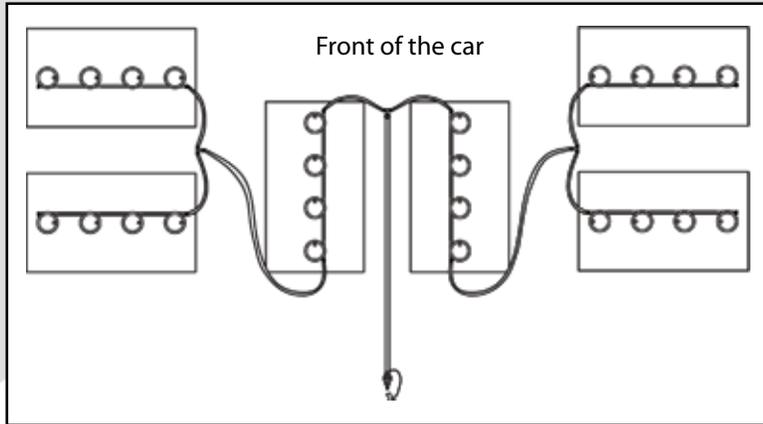
Visit our website at: www.batterywatering.com
to view a complete library of battery diagrams.

Please put the drawing number on your order.

Drawing # GCC-KITBC

Club Car Carry All - Using Trojan 8 Volt

Uses VB-TBB Valves

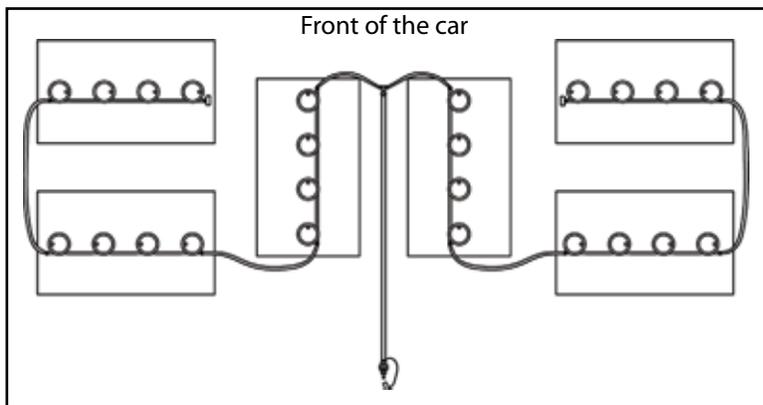


Part #	Description	Quantity
VB-TBB	..... Low Profile Golf Valve..	24
08TUB6	..... 6mm 1/4" Tubing.....	8.16"
08T666N	..... 6-6-6 Tee.....	3
09BDCAP	.... Dust Cap.....	1
09MBLU1	.... 6mm 1/4" Male Conn....	1
08CAP6	..... End Cap.....	4

Drawing # GCC-KIT09BCCR

Club Car Precedent for 6 / 8 Volt - Using Crown Battery

Uses VB-TBB Valves



Part #	Description	Quantity
VB-TBB	..... Low Profile Golf Valve..	24
08TUB6	..... 6mm 1/4" Tubing.....	8.16"
08T666N	..... 6-6-6 Tee.....	3
09BDCAP	.... Dust Cap.....	1
09MBLU1	.... 6mm 1/4" Male Conn....	1
08CAP6	..... End Cap.....	4

Battery Drawings

Please follow the drawing precisely as shown.

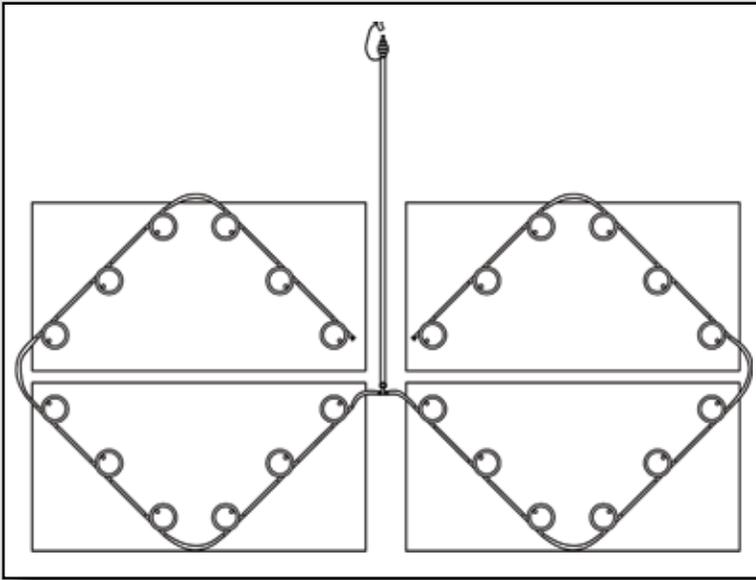
Note: Remove battery caps, lay string of valves on battery as shown in the diagram below. Snap each valve into the corresponding cell. Make sure all tubing remains unobstructed. Water batteries after charging is complete and never leave unattended. Always disconnect from water source after filling.

Please put the drawing number on your order.

Drawing # GCCP-KITBC

Club Car Precedent - Years 2003-07

Uses VB-TBY Valves

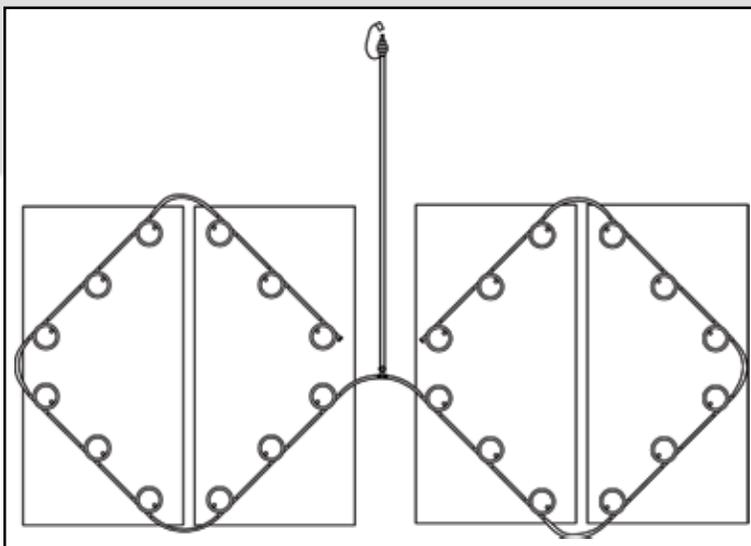


Part #	Description	Quantity
VB-TBY	Low Profile Golf Valve..	24
08TUB6	6mm 1/4" Tubing.....	7.30"
08T666N	6-6-6 Tee.....	1
09BDCAP ...	Dust Cap.....	1
09MBLU1 ...	6mm 1/4" Male Conn...	1
08CAP6	End Cap.....	2

Drawing # GCCP-KITC-08BC

Club Car Precedent - Years 2008-Present

Uses VB-TBY Valves



Part #	Description	Quantity
VB-TBY	Low Profile Golf Valve..	24
08TUB6	6mm 1/4" Tubing.....	6.83"
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

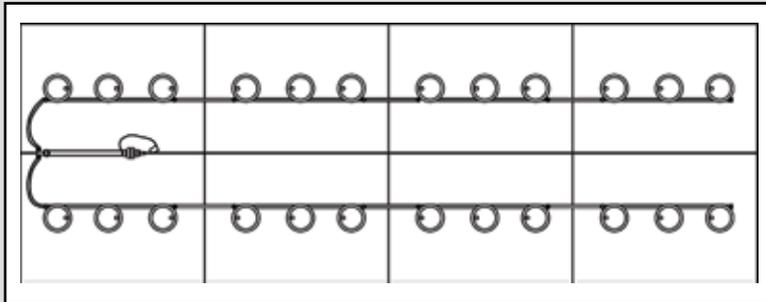
Visit our website at: www.batterywatering.com
to view a complete library of battery diagrams.

Please put the drawing number on your order.

Drawing # **GCP48-KITBC**

Columbia Par Car - 48 Volt Kit with Trojan Batteries

Uses VB-TBB Valves

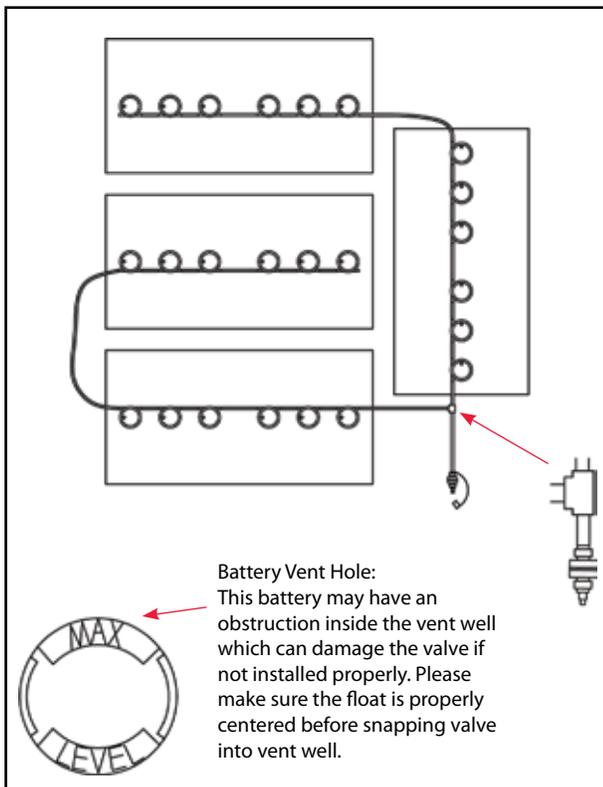


Part #	Description	Quantity
VB-TBB	Low Profile Golf Valve..	24
08TUB6	6mm 1/4" Tubing.....	7.63"
08T666N	6-6-6 Tee.....	3
09BDCAP ...	Dust Cap.....	1
09MBLU1 ...	6mm 1/4" Male Conn...	1
08CAP6	End Cap.....	2
08W160	Angle 6/0	2

Drawing # **GEZ48-KITBCUS3**

E-Z-GO RXV - Used with US Battery (US12VRX)

Uses Specialty Valve VB-TBU



Part #	Description	Quantity
VB-TBU	Low Profile Golf Valve..	24
08TUB6	6mm 1/4" Tubing.....	5.11"
08T666N	6-6-6 Tee.....	1
09BDCAP ...	Dust Cap.....	1
09MBLU1 ...	6mm 1/4" Male Conn...	1
08CAP6	End Cap.....	2



toll free: 1.877.522.5431

Battery Drawings

Please follow the drawing precisely as shown.

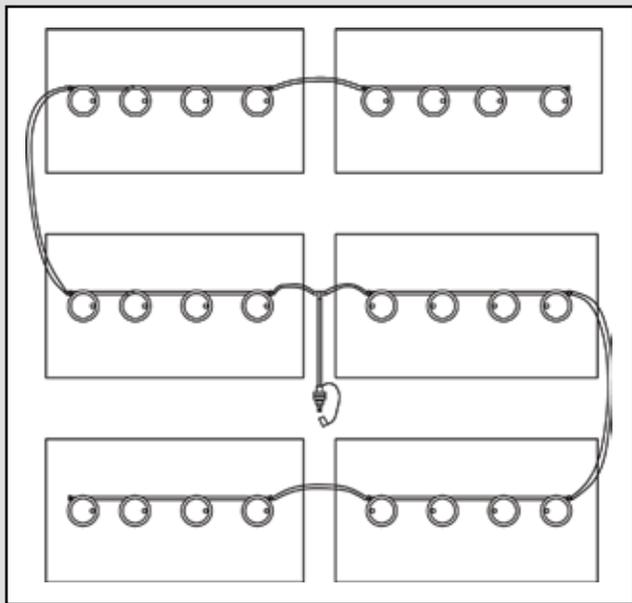
Note: Remove battery caps, lay string of valves on battery as shown in the diagram below. Snap each valve into the corresponding cell. Make sure all tubing remains unobstructed. Water batteries after charging is complete and never leave unattended. Always disconnect from water source after filling.

Please put the drawing number on your order.

Drawing # GEZ-KIT24CBCTB

E-Z-GO TXT 48V - 6-8 Volt Trojan Batteries

Uses VB-TBB Valves

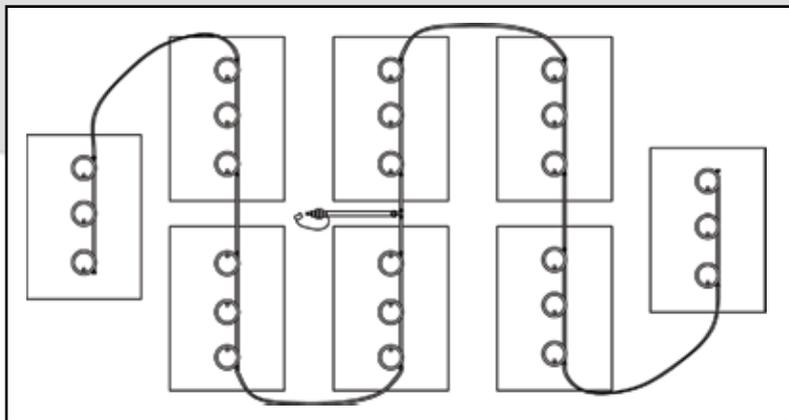


Part #	Description	Quantity
VB-TBB	Low Profile Golf Valve..	24
08TUB6	6mm 1/4" Tubing.....	7.20"
08T666N	6-6-6 Tee.....	1
09BDCAP	Dust Cap.....	1
09MBLU1	6mm 1/4" Male Conn....	1
08CAP6	End Cap.....	2

Drawing # GW48KITCPLUSBC

STAR 48 Volt - T-105 Plus Trojan Batteries

Uses VB-TBB Valves



Part #	Description	Quantity
VB-TBB	Low Profile Golf Valve..	24
08TUB6	6mm 1/4" Tubing.....	9.70"
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

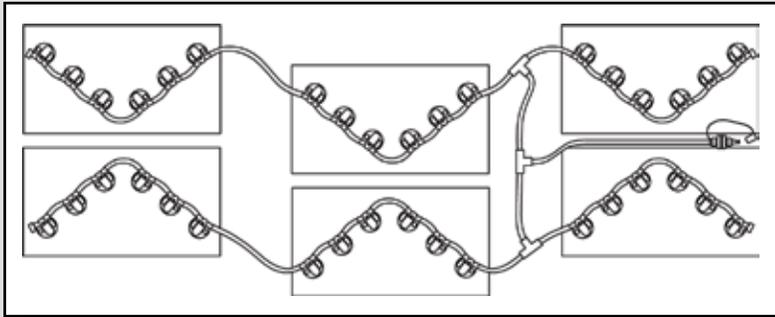
Visit our website at: www.batterywatering.com
to view a complete library of battery diagrams.

Please put the drawing number on your order.

Drawing # **GCSKH-KITBCUS**

Stealth Nighthawk - 6-12 Volt US Batteries

Uses VB-TBB Valves

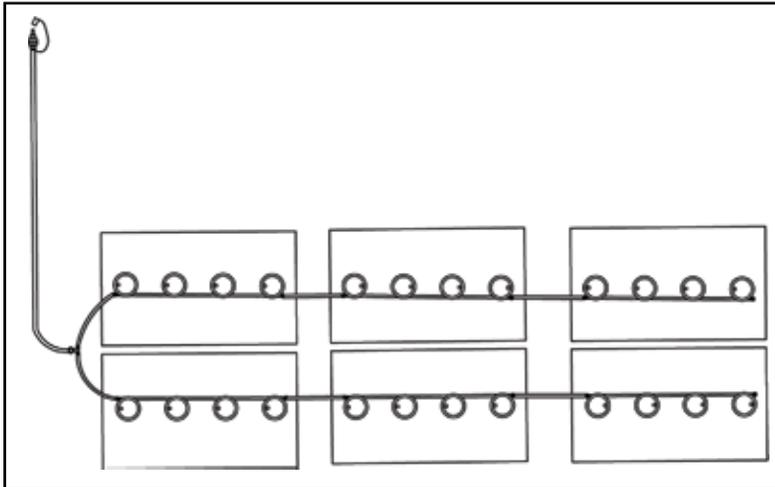


Part #	Description	Quantity
VB-TBB	Low Profile Golf Valve..	36
08TUB6	6mm 1/4" Tubing.....	11.50"
08T666N	6-6-6 Tee.....	3
09BDCAP	Dust Cap.....	1
09MBLU1	6mm 1/4" Male Conn...	1
08CAP6	End Cap.....	4

Drawing # **GITM-KITCUBC**

Tomberlin - with 6-8 Volt US Batteries

Uses VB-TBB Valves



Part #	Description	Quantity
VB-TBB	Low Profile Golf Valve..	24
08TUB6	6mm 1/4" Tubing.....	8.16"
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.

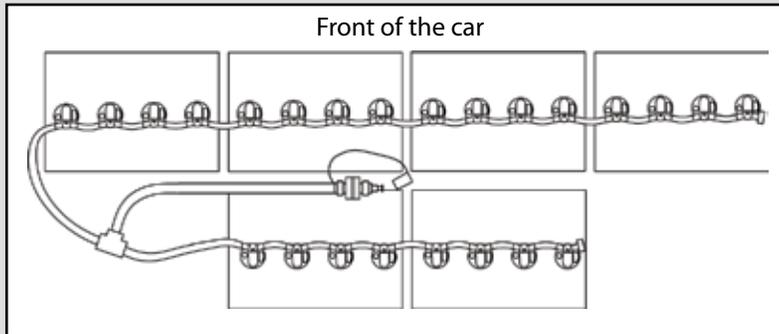
Note: Remove battery caps, lay string of valves on battery as shown in the diagram below. Snap each valve into the corresponding cell. Make sure all tubing remains unobstructed. Water batteries after charging is complete and never leave unattended. Always disconnect from water source after filling.

Please put the drawing number on your order.

Drawing # GYM-KITC30BC

Yamaha Drive - 6-8 Volt

Uses VB-TBB Valves

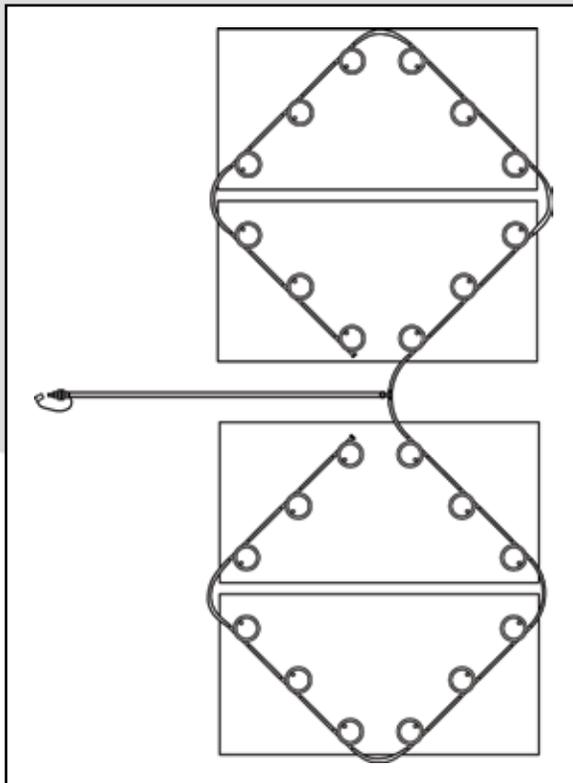


Part #	Description	Quantity
VB-TBB	Low Profile Golf Valve..	24
08TUB6	6mm 1/4" Tubing.....	7.78"
08T666N	6-6-6 Tee.....	1
09BDCAP ...	Dust Cap.....	1
09MBLU1 ...	6mm 1/4" Male Conn....	1
08CAP6	End Cap.....	2

Drawing # GYM-KITC29BC

Yamaha Drive - 4-12 Volt (used with T-1275 batteries)

Uses VB-TBY Valves



Part #	Description	Quantity
VB-TBY	Low Profile Golf Valve..	24
08TUB6	6mm 1/4" Tubing.....	8.88"
08T666N	6-6-6 Tee.....	1
09BDCAP ...	Dust Cap.....	1
09MBLU1 ...	6mm 1/4" Male Conn....	1
08CAP6	End Cap.....	2

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. *Dust caps sold separately on page 30.*

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



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



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



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



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



Use only with Direct Fill Link
Part # DF72



3/8" Crimp Hose
Clamp 10 mm
HCC500

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
Requires **HCC500** clamp

Flow-Rite®

1/4" Male
6mm Connector
09FUV6



Trademark Acknowledgements:

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

toll free: 1.877.522.5431

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
BFS / Grey	 09GRF1	 09GRM6

Jumpers

*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



3/8" Female 10mm Connector
09FBLU1



3/8" Male 10mm Connector
09GRM1



1/4" Male 6mm Connector
09GRM6



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 kit with the blue connector (part **09FBLU1**).*

Male Connector Jumper
09MJUMP



3/8" Female 10mm Connector
09GRF1



3/8" Male 10mm Connector
09MBLU2



Dust Cap - Blue
09BDCap



Direct Fill Links

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.



Standard Direct Fill Link
DF72
Blue Connector

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



Optional Direct Fill Link with 09GRF1 Connector
DF72G



Optional Direct Fill Link with 09FUM1 Connector
DF72F

Replacement Front End for DF72
09FRTL72



Replacement Front End for DF72G
09FRTL72G



Replacement Front End for DF72F
09FRTL72F



10 PSI Pressure Regulator
PRG915



Female Quick Connect
L70654



Handle
GHAN2



Flow Indicator for DF72
09FWM72A



Flow Indicator for DF72G, DF72F
09FWM72B



1/4" NPT Threaded Female Connector
09FBLUT3



Quick Connect Male Adapter
L70655



Manual Delivery Gun

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.

Replacement parts not available.

2.5 Gallon Gravity Tanks

The 2.5 (9.46 liter) gallon tank is the most popular water delivery tank for golf applications. 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 23.

Note: Always disconnect tank after watering. Never leave tank attached to the watering system.

Only water fully charged batteries!

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)

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



Replacement Parts

Small replacement cap for 2.5 & 5 gallon tanks

NTSCAP



Large replacement cap for 2.5 & 5 gallon tanks

NTSCAP2



3/4" NPT x 3/8" Barb

TA10126



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



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

08TUB1



100 feet (30.48 m)
on a roll (shown)

Flow Indicator
3/8" 10mm

09FWM1



Reg Hose
Clamp

HC5000



3/8" Female
10mm Connector

09FBLU1



3/8" Female
10mm Connector

09GRF1



5 Gallon Gravity Tank and Shelf

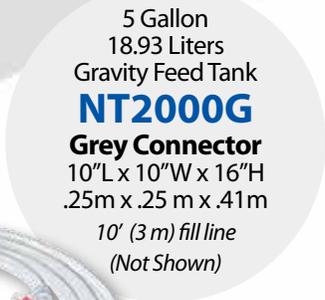
The 5 gallon (18.93 liter) gravity feed tank is used for watering larger golf fleets. The tank should be positioned at least three feet (.91 m) above the batteries to ensure proper water delivery. Tank shelves are sold separately. Note: Always disconnect tank after watering. Never leave tank attached to the watering system. Tank ships in 19" x 13" x 13" box.



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' (3m) fill line



Combo Tank and Shelf
5 Gallon Tank
18.93 Liters
TSC2000N
Blue Connector



5 Gallon
18.93 Liters
Gravity Feed Tank
NT2000G
Grey Connector
10"L x 10"W x 16"H
.25m x .25 m x .41m
10' (3m) fill line
(Not Shown)



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



Tank Shelf
Wall Mount
S2000T



Small replacement
cap for 2.5 & 5
gallon tanks
NTSCAP



Large replacement
cap for 2.5 & 5
gallon tanks
NTSCAP2



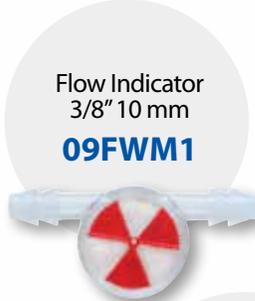
Replacement
Tubing - Front End
For 5 Gallon /
18.93 Liter
Grey Connector
09FILTK



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



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



Flow Indicator
3/8" 10 mm
09FWM1



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



3/8" Female
10mm Connector
09FBLU1



3/8" Female
10mm Connector
09GRF1



Reg Hose
Clamp
HC5000

100 feet (30.48 m)
on a roll (shown)

5 Gallon Gravity Tank and Shelf

Manual Pump

Manual Pump **NTHANDP**

As Shown with
09FBLU1 connector



Manual Pump with 09FUM1 **NTHANDPF** (Not Shown)



Distilled water not included

Replacement Parts for the Manual Pump

3/8" 10 mm
Crimp Hose
Clamp

HCC500



Blue 3 oz
In-line Pump

NTBULB



3/8" ID x 3/8" ID
Check Valve

NTCVALVE



Arrow on NTCVALVE
must line up for
proper water flow.
Call for instruction on
installation.

3/8" Female
10mm Connector

09FBLU1



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

08TUB1



100 feet (30.48 m)
on a roll (shown)

Aqua Sub Cart

Cart can be used with most competitor's systems. It cannot be used with injector systems or gravity only systems.

- 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
- 25 gallon (94.64 liter) tank available
- Rugged steel construction ensures a trouble-free system
- Tough powder coat finish
- Heavy duty industrial wheels
- 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**



25 Gallon
94.64 Liters
Aqua Sub Cart
with Direct Fill Link
NC5250PN
Blue Connector
(Shown)

25 Gallon
94.64 Liters
Aqua Sub Cart
with Direct Fill Link
NC5250P
Grey Connector
(Not Shown)

- Approximate Shipping Weight Empty:
25 Gallon (94.64 Liter) : 70 lbs (31.75 kg)

Manual gun options available:

25 Gallon
94.64 Liter
Aqua Sub Cart
with Manual Gun
NC5250PN-MAN
(Not Shown)



Direct Fill Link
DF72
Blue Connector
DF72G
Grey Connector
(Not Shown)

3/4" GHT to
3/8" Barb
19mm GHT to
10mm Barb
63163
(Not Shown)

Drain Plug
5274373
(Not Shown)

Lid
5058188
(Not Shown)

Direct Fill Link
with 12 foot hose
& grey connector
DFHOSC
(Not Shown)

Direct Fill Link
with 12 foot hose
& blue connector
DFHOSCN
(Not Shown)

5 Amp Fuse
5157204
(Not Shown)

Battery Box
BB5000
(Not Shown)

Charger
BC5000
(Not Shown)

Black Hose
BH5000
(Not Shown)

Pump
PM5000
(Not Shown)

Pressure
Switch for
Pump
5157201
(Not Shown)

25 gallon
94.64 Liter
Tank only
TK5250
(Not Shown)

Swivel Wheel
SV5000
(Not Shown)

Straight Wheel
SW5000
(Not Shown)

Handle Bar
HB5000
(Not Shown)

Frame
FR5000
(Not Shown)

toll free: 1.877.522.5431

AquaSub Jr

8 Gallon
30.28 Liter
Aqua Sub Jr Cart
with Direct Fill Link
NC5080PN
Blue Connector
(Shown)

8 Gallon
30.28 Liter
Aqua Sub Jr Cart
with Direct Fill Link
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)

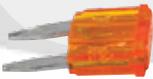
12 Volt 5 Amp
Replacement Battery
ASJ5157209



Handle
5078207



5 AMP Fuse
5157204



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
Sold by the foot



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



Lid
5058188



Barrell style
Replacement
Charger
BC50009



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)

5/8" x GHT
Swivel Female Insert
PW-04FB



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



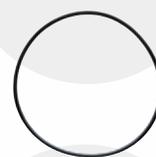
Deionizer #20
Case Housing
PW-CASE



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



toll free: 1.877.522.5431

Water Deionizer

i-Lite™ Sensor

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
BSVA-1000



i-Lite Sensor
Remote Dash Mount
BSVA-2000



Electrolyte level is okay



Water is needed



Sensor probe

Easy to See and Use

- Solid green light means electrolyte level is okay
- Solid red light means water is needed
- Blinking red light means the battery has had low electrolyte level for 10 days or longer
- Re-set mode allows user to determine exactly how many days/months the battery has had low electrolyte levels
- Probe can be mounted in the center of the battery and the light placed where it is easy to see
- EPDM Grommet ensures perfect seals between the probe and the cell
- No calibration necessary

Safe

- Electronic Housing is separate from the sensor probe making this the safest sensor on the market
- Multiple fuses eliminates any possibility of unrestricted current flow in any direction
- Sensor is protected against transient voltages and incorrect polarity
- Eliminates the need for battery room attendants to peer into vent wells to check electrolyte levels

Technical Specifications

Operating Voltage	8-12 V Nominal
Current Consumption	30 mA
Acceptable Exposure Range	-20°F to 160°F -29°C to 71°C

This product is UL Classified.





Battery Watering Technologies

Technical Service Kits

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.

Technical Service Kit
TK1000G



Also Available:

Empty Technical Service
Kit Box
55328
Assemble the parts you need



Part Number	Description	Quantity
08T666N	Clampless Tee 1/4" (6 mm)	12
08CAP6	End Cap	10
VB-TBB	Low Profile Golf Valve	20
55328	Plastic Technical Kit Box	1
08TUB6K	1/4" ID & 3/8" OD Hose . 20 ft or 6.09 m	
09MBLU1	1/4" Male 6mm Connector	5
09FBLU1	3/8" Female (10mm) Conn	3
HCC500	Crimp Hose Clamp	8

Manual Flip Top Vent Cap

Caps

Manual Bayonet Vent Cap
MC001



Dust Cap Blue
09BDCAP



Dust Cap for use with 09FUV6 Connector
09BDCAPF



End Piece
08CAP6



Angles and Tees

Filters

Clampless Tee
6/6/6
08T666N



Cross
6/6/6/6
08KR66N



1/4" 6 mm Filter
09FTR6



3/8" 10mm Filter
09FTR1



Y Fitting for 1/4" ID
08Y666N



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

Clamps

Gasket

Reg Hose Clamp
HC5000



3/8" Crimp Hose Clamp
HCC500



1/4" Crimp Hose Clamp
HCC400



1.5 mm Gasket
09D15





Battery Watering Technologies

Flow Indicators

3/8" 10 mm
Flow Indicator
09FWM1



Flow Indicator
09FWM72A



Use with *Standard*
Direct Fill Links

Flow Indicator
09FWM72B



Use with *Optional*
Direct Fill Links

Tubing

3/8" Tubing
10mm
08TUB1



100 feet (30.48 meters)
per roll or sold by the foot

Tubing with
1/4" inside diameter
3/8" outside diameter
08TUB6K
Not advised for use
with high pressure



300 feet (91.44 meters)
per roll or sold by the foot

6 mm inside
diameter
10 mm outside
diameter
08TUB6



12 feet
3.66 meters
Delivery Hose
HOSE-121



1/4" Black Tubing
08TUB6BLK



300 feet (91.44 meters)
per roll or sold by the foot

Tubing
Cutter
TUBECUT



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



Battery Watering Technologies



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 the 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.

Warranty & Return Policy

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

freeinfo@batterywatering.com

Battery Watering Technologies is a division of FourShare, LLC

Re-order Lit: GolfCat_0814

MADE IN THE U.S.A.