



MARINE WATER SYSTEM SOLUTIONS 2021-2022





Who We Are

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

Manufacturing Excellence

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



We are a niche manufacturing and solutions company.



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



Niche:
Water. Done Differently.



Passion:
Change Lives.
Transform the World.

Our Team

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

Giving Back

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

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Made in USA



members of:





Product Spotlight

REMOTE DRAIN PLUG

Never Worry About Forgetting Your Drain Plug Again!

- No lying on a wet boat ramp to put in or take out a drain plug
- Easily open or close the drain plug from your console
- Fresh or salt water use

See more on page 24



"One of the slickest new products I have seen recently is the Flow-Rite Remote Drain Plug and I wish I would have had one of these available for all of my boats over the years."

*- Larry J. LeBlanc
The Houston Chronicle*



PROTIMER AND PROTIMER PLUS+

Brand NEW Look!

- Helps keep fish healthy and stress-free
- Ideal for tournament fishing
- For use with any livewell recirculation pump or Flow-Rite valve system with RECIRC mode

See more on page 23



1-1/2" x 1" FITTINGS

NEW Fittings!

- Ideal for ballast applications
- Four locking fingers for maximum engagement
- Fits 1" marine hose

See details on page 6



QWIK-LOK™



Quick Connect for Marine Plumbing Systems

Qwik-Lok™ is a quick connect/disconnect marine plumbing system and method that can provide increased productivity and higher quality and value while simultaneously reducing costs. The heart of the Qwik-Lok system is the innovative Qwik-Lok socket that fits industry-standard marine hose in popular 3/4", 1-1/8", and 1-1/2" sizes. Qwik-Lok's numerous benefits make it much more than just a quick disconnect plumbing system.



QWIK-LOK™

Faster water flow to your marine plumbing systems



4 Locking Fingers

- Plug-and-Play Design
- Increased Flow Rate
- Fits Industry-Standard Hose



1-1/2" FITTINGS



1-1/2" Qwik-Lok straight

MA-150



1-1/2" Qwik-Lok elbow

MA-151



1-1/2" Qwik-Lok tee

MA-288



1-1/2" 12 NPT x 1-1/2" Qwik-Lok male

MA-285



1-1/2" 12 UNF x 1-1/2" Qwik-Lok male

MA-286



1-1/2" 12 UNF x 1-1/2" Qwik-Lok male, elbow

MA-287



1-1/2" Qwik-Lok male x male adapter

MA-281



1-1/2" Qwik-Lok male x male bulkhead

MA-282



1-1/2" Qwik-Lok x 1-1/2" 12 UNF

MA-289



1-1/2" Qwik-Lok x 1" straight

MA-292



1-1/2" Qwik-Lok x 1" elbow

MA-293

1-1/8" FITTINGS



Latching Arm

Holds socket securely in place

Locking Ring

Locks latching arms and is also used for 2-finger socket removal

Hose Stop

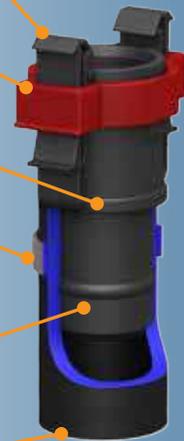
Clamp

Made of stainless steel for maximum corrosion resistance

Raised Rib

Designed to eliminate leaks and the need for sealants

1-1/8" Hose



Qwik-Lok Socket

QWIK-LOK SOCKETS



1-1/8" Qwik-Lok socket, straight

MA-040



1-1/8" Qwik-Lok socket, elbow

MA-049

1-1/8" FITTINGS

THRU-HULL FITTINGS



1-1/8" Qwik-Lok straight flanged thru-hulls

Black	MA-041-QLB
White	MA-041-QLW
Chrome	MA-063-QL

- Requires 1-1/2" mounting hole
- Requires MA-040 or MA-049 Qwik-Lok socket
- Compatible with MA-045 push-in drain plug and MA-046 push-in strainer (excluding MA-063 chrome thru-hull)
- Chrome plated ABS bezels securely snap in place (replacement bezel MA-066)



1-1/8" Qwik-Lok elbow flanged thru-hulls

Black	MA-042-QLB
White	MA-042-QLW
Chrome	MA-064-QL

- Requires 1-1/2" mounting hole
- Requires MA-040 or MA-049 Qwik-Lok socket
- Compatible with MA-045 push-in drain plug and MA-046 push-in strainer (excluding MA-064 chrome thru-hull)
- Chrome plated ABS bezels securely snap in place (replacement bezel MA-066)



1-1/8" Qwik-Lok elbow double nut thru-hull **MA-048**

- Requires 1-1/2" mounting hole
- Requires MA-040 or MA-049 Qwik-Lok socket



1-1/8" Qwik-Lok threaded (internal) flanged thru-hulls

Straight	MA-043-QLB
Elbow	MA-044-QLB

- Requires 1-1/2" mounting hole
- Requires MA-040 or MA-049 Qwik-Lok socket
- Compatible with MA-STDP-12 standpipe & MA-050 screw-in drain plug

STANDPIPES



	Standpipe
8 inches	MA-STDP-08
10 inches	MA-STDP-10
12 inches	MA-STDP-12
18 inches	MA-STDP-18

- Compatible with MA-043-QLB and MA-044-QLB threaded thru-hulls
- Features bleeder holes for draining without removal

CONNECTORS AND ADAPTORS



1-1/8" Qwik-Lok x 1/2" NPT

MA-097

- Commonly used on positive displacement pumps
- Requires MA-040 or MA-049 Qwik-Lok socket



1-1/8" Qwik-Lok x 3/4" NPT

MA-098

- Commonly used in wake ballast tanks and bags
- Requires MA-040 or MA-049 Qwik-Lok socket



1-1/8" Qwik-Lok x 1" NPT

MA-099

- Commonly used in wake ballast tanks and bags
- Requires MA-040 or MA-049 Qwik-Lok socket



1-1/8" Qwik-Lok tee

MA-047-QLB

- Combined with MA-040 and/or MA-049 sockets, is very versatile, offering numerous configurations



1-1/8" Bulk head, double-ended Qwik-Lok with flange and nut

MA-072-QLB

- Requires 1-1/2" mounting hole
- Requires MA-040 and/or MA-049 Qwik-Lok sockets

DRAIN SCREENS AND PLUGS



Push-in strainer

MA-017

- Stainless steel screen
- O-ring seal



Push-in drain plug

MA-045

- Double O-ring design
- Compatible with MA-041 and MA-042 series thru-hulls



Screw-in drain plug

MA-050

- Compatible with MA-043-QLB and MA-044-QLB threaded thru-hulls
- Features bleeder holes for draining without removal

3/4" FITTINGS

QWIK-LOK SOCKETS



3/4" Qwik-Lok socket, straight

MA-014



3/4" Qwik-Lok socket, elbow

MA-025

THRU-HULL FITTINGS



3/4" Straight flanged thru-hulls

	Qwik-Lok	Barbed
Black	MA-011-QLB	MA-011-B
White	MA-011-QLW	MA-011-W
Chrome	MA-016-QL	N/A

- Compatible with MA-018 snap-in strainer except for chrome thru-hulls
- Requires 1-1/16" mounting hole
- Chrome plated ABS bezels securely snap in place (replacement bezel MA-065)

3/4" Elbow flanged thru-hulls

	Qwik-Lok	Barbed
Black	MA-027-QLB	MA-027-B
White	MA-027-QLW	MA-027-W
Chrome	MA-028-QL	N/A

- Compatible with MA-018 snap-in strainer except for chrome thru-hulls
- Requires 1-1/16" mounting hole
- Chrome plated ABS bezels securely snap in place (replacement bezel MA-065)

3/4" Elbow double nut thru-hulls

	Qwik-Lok	Barbed
Black	MA-007-QLB	MA-007-B
White	MA-007-QLW	MA-007-W

- Compatible with MA-018 snap-in strainer except for chrome thru-hulls
- Requires 1-1/16" mounting hole
- Chrome plated ABS bezels securely snap in place

CONNECTORS AND ADAPTORS



3/4" Qwik-Lok Adaptor for Attwood®

MA-034

- Qwik-Lok adaptor for Attwood® pumps



3/4" Qwik-Lok × 3/4" NSPF

MA-021

- Fits Attwood pump intake and outlet threads
- Fits most pump inlets for remote mounting of pump
- Will also fit Johnson Pump outlet when an extra gasket is used



3/4" Qwik-Lok × female thread for Rule® Pumps

MA-037

- Used exclusively for the outlet of Rule Tournament Series pumps to adapt to Qwik-Lok



3/4" Qwik-Lok × garden hose thread

MA-031

- Primarily used on some ballast bags requiring garden hose threads



3/4" Qwik-Lok × 3/4" NPT

MA-029

- Primarily used in body of Flow-Rite control valves when pump is mounted remotely and for use on V5 Pump-out valves



3/4" Qwik-Lok × 1/2" NPT

MA-035

- Primarily used on second inlet of Rule Tournament Series and other pumps for the feed to a separate washdown pump



3/4" Qwik-Lok × 3/4" barbed

MA-032

- Used to provide a quick disconnect from an existing 3/4" hose or a transition from barbed to Qwik-Lok



Adaptor, 3/4" barb × 3/4" NPT

MD-00041

- Used on barbed versions of the V5 pump-out valve body for intake from a recirculation pump



Adaptor, 3/4" barb elbow × 3/4" NPT

MD-00042

- Used on barbed versions of the V5 pump-out valve body for intake from a recirculation pump



3/4" Qwik-Lok tee

MA-026-QLB

- Combined with MA-014 and/or MA-025 sockets, the tee is very versatile, offering numerous configurations

3/4" FITTINGS

DRAIN FITTINGS



	3/4" Threaded port drain fittings
	Qwik-Lok
Straight	MA-075-QLB
Elbow	MA-074-QLB

- Requires 1-1/16" mounting hole
- Compatible with MA-005 or MA-023 strainers



	3/4" Open port drain fittings
	Qwik-Lok
Straight	MA-188-QLB
Elbow	MA-187-QLB

- Requires 1-1/16" mounting hole
- Compatible with MA-022 drain plug



	3/4" Low profile drain fitting with strainer
	Qwik-Lok
Black	MA-076-QLB

- Requires 1-1/16" mounting hole
- Includes strainer

DRAIN SCREENS AND PLUGS



3/4" Snap-in strainer **MA-018**

- Stainless steel screen
- Compatible with MA-027 and MA-011 series fittings



3/4" Snap-in strainer, small **MA-019**

- Stainless steel screen
- Compatible with MA-027 and MA-011 series fittings.



3/4" Screw-on strainer **MA-023**

- Stainless steel screen
- Compatible with MA-007 series fittings



3/4" Screw-on strainer, small **MA-005**

- Stainless steel screen
- Compatible with MA-007 series fittings



3/4" Push-in drain plug **MA-022**

- Compatible with MA-027 and MA-011 series fittings

OTHER ESSENTIALS FOR 1-1/2", 1-1/8", AND 3/4" FITTINGS



3/4" Hose (1 foot)	MD-H06
1-1/8" Hose (1 foot)	MD-H09
1-1/2" Hose (1 foot)	MD-H12

- Our hose is made in USA with unmatched consistency in dimension and quality. This consistency ensures a perfect fit to all Flow-Rite barb and Qwik-Lok components.



3/4" Oetiker crimp clamp	MD-00111
1-1/8" Oetiker crimp clamp	MD-00130
1-1/2" Oetiker crimp clamp	MD-00233

- Used for securing hose to Qwik-Lok socket
- Requires MD-110 crimping tool



Crimping tool MD-110



O-ring lubricant MD-123



Marine sealant MD-00068

Aerators

POWERSTREAM AERATOR

The PowerStream aerator features a Venturi air intake at the top of the discharge head that is designed to ensure the highest oxygen to water ratio possible. The mixing tube injects the turbulent mix directly to all areas of the livewell through the adjustable discharge nozzle at the bottom of the tube.

- Use with transom mounted fill pump or a livewell mounted recirculation pump
- Discharge can be rotated 360 degrees for the most efficient current
- Easily remove the aerator tube without tools for cleaning or backflushing of pump lines

	Length	Qwik-Lok	Barbed
PowerStream aerator w/ thru-hull, standard	9"	MH-PSA-209	MH-PSA-109
PowerStream aerator w/ thru-hull, long	15"	MH-PSA-215	MH-PSA-115
PowerStream aerator w/ thru-hull, extra long	22"	MH-PSA-222	MH-PSA-122

**Optional aerator guard MA-108*



POWERSTREAM NOZZLE

The PowerStream nozzle features a unique Venturi air intake that maximizes livewell oxygen levels by infusing the incoming water with fresh air. A special elbow thru-hull fitting is included.



- Nozzle may be rotated left or right to promote livewell water circulation



Venturi Air-Intake

Pulls in air to begin oxygenating water before the mix enters the tank.

Discharge Nozzle

Rotate the nozzle to easily direct stream for maximum circulation of oxygenated water.

	Qwik-Lok	Barbed
PowerStream nozzle w/ thru-hull	MH-PSN-200	MH-PSN-100

PUMP-OUT AERATOR

The Flow-Rite Pump-Out aerator is the easiest, most efficient means of adding a pump-out system to your current livewell system.

The pump-out feature provides a convenient means of filling a tournament livewell weigh-in bag and allows a livewell to be pumped out while still in the water.

The two-position head is pushed in to bring water into the livewell where it is recirculated and aerated. Pull the head to the out or “pump-out” position to divert the water from the livewell to the discharge thru-hull. With a recirculation system such as our V3 or V4 systems, this can be done with a single pump. The head can also be rotated to promote a desirable circular current.



	Qwik-Lok	Barbed
Pump-out aerator	MA-024-QLR	MA-024-R
Pump-out aerator retail pack (includes thru-hull and instructions)	MP-1200	MP-1000
Discharge straight thru-hull (with decal)	MA-020-QLB	MA-020-B
Discharge elbow thru-hull (without decal)	MA-027-QLB	MA-027-B



Pump-Out Port

Conveniently connect to pump-out thru-hull.

Intake Port

Easy connect to recirc pump.

Discharge Nozzle

Rotate the nozzle to easily direct stream for maximum circulation of oxygenated water.

Venturi Air-Intake

Pulls in air to begin oxygenating water before the mix enters the tank.

Aerator Head

Simply pull to pump-out and push to aerate.



- A special thru-hull fitting is available for use with the Pump-Out aerator. MA-020-B (barbed) and MA-020-QLB (Qwik-Lok)

POWER-JET AERATOR

The Power-Jet aerator is designed to promote proper water circulation. Mounted near a corner of the livewell, it can be used with a livewell mounted aerator pump only or with our V2, V3, or V4 systems. (It is not for use with a transom mounted pump.) Includes a special air intake fitting with gasket and nut.



Remote Venturi Intake

Venturi air intake has many mounting options and can be mounted anywhere above water level. Shown here with an optional decal.



Air Intake Tubing

Easily routed and may be cut to length to suit your specific needs.

	Qwik-Lok	Barbed
PJA w/ air intake assy (no decal, no air tubing)	MH-PJA-200	MH-PJA-100
PJA w/ air intake assy & 20' air tubing (no decal)	MH-PJA-220	MH-PJA-120
Air tubing, 3/16" I.D. (sold by foot)	MD-055	
Domed decal, single white lettering	MD-DCL-016-W	
Domed decal, double white lettering	MD-DCL-017-W	



MD-DCL-016-W



MD-DCL-017-W

POWER-JET PARTS



Air-intake tubing, (order length in feet)

Air-intake tubing

MD-00055

- 3/16" I.D. clear PVC tubing for remote air-intake
- Used with Power-Jet Venturi aerator and MA-012-B air-intake assembly



Air-intake assembly

MA-012-B

- Used with MD-055 air-intake tubing to provide remote air to Power-Jet Venturi aerator
- Intake hole is 3/16" hex key for installation convenience
- Compatible with Power-Jet aerator decals

SPRAY HEAD AERATORS



Qwik-Lok	Barbed
MA-071-QLW	MA-071-W

Spray head, straight

- Spray head may be rotated to promote livewell water circulation



Qwik-Lok	Barbed
MA-051-QLW	MA-051-W

Spray head with shut-off

- Fully adjustable from off to fully open
- Ideal for use with single fill pump routed to two or more bait or livewells
- Not for use with V2 or V3 automatic systems



Qwik-Lok	Barbed
MA-077-QLW	MA-077-W

Spray head, elbow

- Spray head may be rotated to promote livewell water circulation



Valves, Actuators, and Cables



V1 TWO-POSITION SHUT OFF VALVE



	Cable Direction	3/4"	1-1/8"
Qwik-Lok	N/A	MV-11-FN01	MV-5A-FN01
Barbed	N/A	MV-01-FN01	N/A

- Remote drain control for any boat's livewell, baitwell or cooler
- Operates with the MC-1-01-100 actuator
- 1-1/8" Shut off valves are commonly used to provide control for ballast systems, open and closed modes



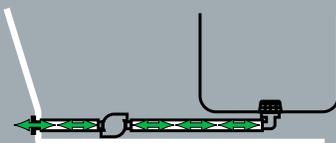
OPEN | CLOSED



V1 Actuator

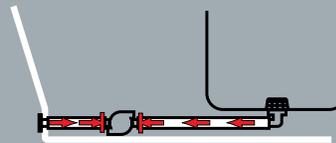
MC-1-01-100

V1 VALVE POSITIONS



OPEN

In the OPEN position, the valve is wide open and water will flow freely in either direction.



CLOSED

In the CLOSED position, the valve is shut off on both sides and water is not allowed to pass in either direction.

V2 TWO-POSITION AUTOMATIC VALVE



	Cable Direction	Non-PEF	PEF
Qwik-Lok	Front	MV-12-FN01	MV-12-FP01
	Rear	MV-12-RN01	MV-12-RP01
Barbed	Front	MV-02-FN01	MV-02-FP01
	Rear	MV-02-RN01	MV-02-RP01

- Ideally used in bassboats, flats boats, and other low profile boats for automatic drain control and livewell management
- Accepts mounting of one standard aerator pump for both filling and recirculation
- Operates with the MC-1-02-100 actuator

EMPTY | AUTO



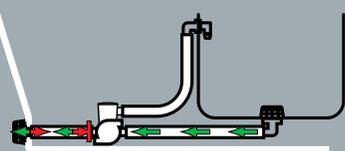
V2 Actuator

MC-1-02-100

V2 VALVE POSITIONS

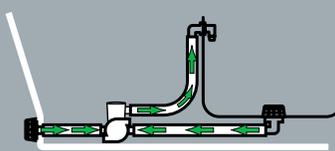
EMPTY

In the EMPTY position of systems V2 & V3, water is allowed to exit the livewell drain, but is not allowed to enter. For system V4, EMPTY allows water to pass in either direction.



AUTO

When on plane, the AUTO position allows water to enter the valve and pump from both outside and from the livewell. When on plane, the outside port is closed to prevent water loss and livewell water continues to enter the valve and pump for recirculation.



V3 THREE-POSITION AUTOMATIC VALVE



	Cable Direction	Non-PEF	PEF
Qwik-Lok	Front	MV-13-FN01	MV-13-FP01
	Rear	MV-13-RN01	MV-13-RP01
Barbed	Front	MV-03-FN01	MV-03-FP01
	Rear	MV-03-RN01	MV-03-RP01

- Ideally used in bassboats, flats boats, and other low profile boats for automatic drain control and livewell management
- Accepts mounting of one standard aerator pump for both filling and recirculation
- Includes closed recirculation mode which allows addition of optional pump-out system
- Operates with the MC-1-03-100 actuator

RECIRC | EMPTY | AUTO



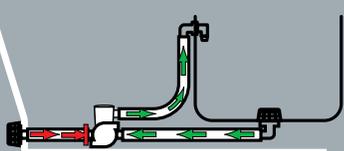
V3 Actuator

MC-1-03-100

V3 VALVE POSITIONS

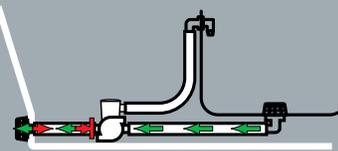
RECIRC

In the RECIRC position, the pump receives water from the livewell only. Outside water is blocked.



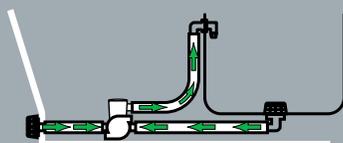
EMPTY

In the EMPTY position of systems V2 & V3, water is allowed to exit the livewell drain, but is not allowed to enter. For system V4, EMPTY allows water to pass in either direction.



AUTO

When on plane, the AUTO position allows water to enter the valve and pump from both outside and from the livewell. When on plane, the outside port is closed to prevent water loss and livewell water continues to enter the valve and pump for recirculation.



V4 THREE-POSITION SELECT VALVE



	Cable Direction	
Qwik-Lok	Front	MV-14-FN01
	Rear	MV-14-RN01
Barbed	Front	MV-04-FN01
	Rear	MV-04-RN01

- Ideally used in walleye boats or other high profile boats for drain control and livewell management
- Accepts mounting of one standard aerator pump for both filling and recirculation
- Includes closed recirculation mode which allows addition of optional pump-out system
- Operates with the MC-1-04-100 actuator

FILL | EMPTY | RECIRC

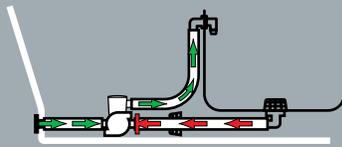


V4 Actuator MC-1-04-100

V4 VALVE POSITIONS

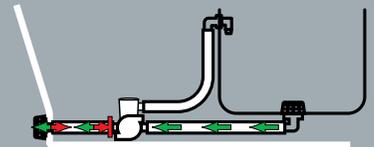
FILL

In the FILL position, the pump receives water outside water only.



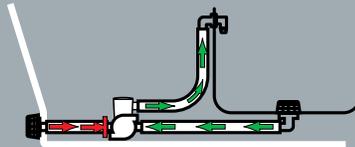
EMPTY

In the EMPTY position of systems 2 & 3, water is allowed to exit the livewell drain, but is not allowed to enter. For system 4, EMPTY allows water to pass in either direction.



RECIRC

In the RECIRC position, the pump receives water from the livewell only. Outside water is blocked.



V5 TWO-POSITION PUMP-OUT VALVE



	Cable Direction	Straight	Elbow
Qwik-Lok	Front	MV-15-FN11	N/A
	Rear	MV-15-RN11	N/A
Barbed	Front	MV-05-FN11	MV-05-FN21
	Rear	MV-05-RN11	MV-05-RN21

- Used in addition to V3, V4, or any recirculation pump (as shown here) to provide optional pump-out. (See also Pump-Out aerator for alternative method)
- Operates with the MC-1-05-100 actuator

RECIRC | PUMP-OUT

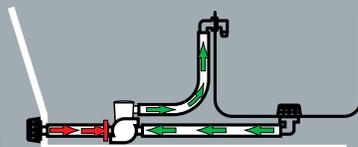


V5 Actuator MC-1-05-100

V4 VALVE POSITIONS

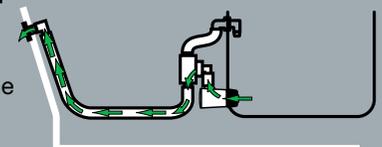
RECIRC

In the RECIRC position, the pump receives water from the livewell only. Outside water is blocked.



PUMP-OUT

In the RECIRC position, the pump receives water from the livewell only. Outside water is blocked.



THREE-POSITION BALLAST VALVE



- Provides control for ballast systems, port, starboard, or both modes
- Can eliminate number of pumps required
- Works with positive displacement as well as centrifugal pumps
- 1 1/8" port sizes for high flow rate
- Compatible with MA-040 & MA-049 Qwik-Lok hose sockets
- Operates with MC-1-0B-100 actuator

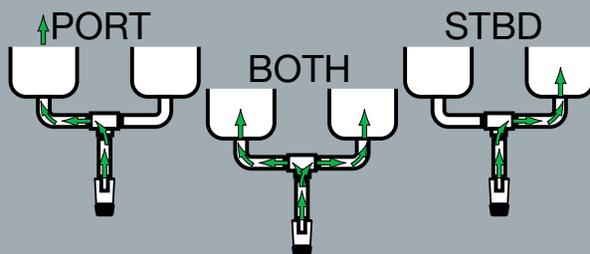
	Cable Direction	1-1/8"
Qwik-Lok	N/A	MV-5B-FN01

STBD | BOTH | PORT



Ballast Actuator	MC-1-0B-100
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THREE-POSITION BALLAST VALVE POSITIONS



The ballast valve directs water to either the port side, the starboard side or both.

CONTROL CABLES



Control Cables			
6 foot	MA-CBL-06	12 foot	MA-CBL-12
7 foot	MA-CBL-07	13 foot	MA-CBL-13
8 foot	MA-CBL-08	14 foot	MA-CBL-14
9 foot	MA-CBL-09	15 foot	MA-CBL-15
10 foot	MA-CBL-10	16 foot	MA-CBL-16
11 foot	MA-CBL-11	17 foot	MA-CBL-17

The control cables are used with our actuator and control valves and are sold separately in various lengths to accommodate the specific layout of your boat.

MOUNTING BRACKETS



U-Bracket	MD-00034
L-Bracket	MD-00035

- Used to support valve/pump assembly
- Two 3/16" mounting holes



VALVE AND ACTUATOR INFORMATION



Mounting a Pump to the Valve

The valve body is threaded for mounting the inlet of a centrifugal pump. Use a hacksaw to remove all but about 1-1/4" to 1-1/2" of threads on the pump inlet. Apply Teflon tape and mount directly to the valve. A 700 to 800 GPH pump is recommended for the best performance.



Attaching the Cable to the Valve

Insert the cable "Z" bend from the valve cap side and position the clamp directly behind the enlarged section of cable jacket as shown.



Installing the Cable Actuator

Insert cable wire through hole in brass arm as shown. Then, position cable assembly into brass bracket U-slot and secure finger tight with knurled nut. Carefully push assembly into 1-3/4" mounting hole and secure with two P/N MD-093 screws (#6-32, truss head, black oxide, stainless steel).



P.E.F. (Pressure Equalization Flapper)

Only specify PEF for higher profile walleye and bay boats where the livewell overflow is 8"-12" above lake level. If it is more than 12", use the V4 valve. PEF is not generally required for low profile bass boats.

While off plane and in the AUTO position, water enters the valve from both the livewell drain and the transom thru-hull. As the water level in the livewell increases, so does the pressure on the transom check feature of the valve, reducing the ratio of fresh to recirculated water. When this pressure is too great, PEF insures that enough fresh water is added to force the upper used water out.



Front Approach

Rear Approach

Cable Approach

Some valves have two cable approach options. The cable can approach the valve from either the front/livewell side or the rear/transom side of the boat.



PROTIMER AND PROTIMER PLUS+

ProTimer™ and ProTimer Plus+™ are adjustable timers for your livewell tank. This product automatically turns your pump on and off for the desired circulation and aeration. It helps conserve battery life, is easy to install, and simple to operate so you can spend more time fishing.

ProTimer Plus+™ has all the features of ProTimer™, plus it comes with a master control switch to control on, off or timed livewell operation.

ProTimer	MP-103
ProTimer Plus+	MP-104

- No moving parts
- Unrestricted flow path
- For fresh and saltwater applications
- Compatible with centrifugal aerator pumps
- Compact size for ease of installation



ProTimer™

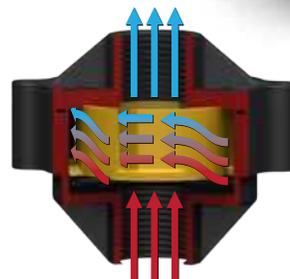
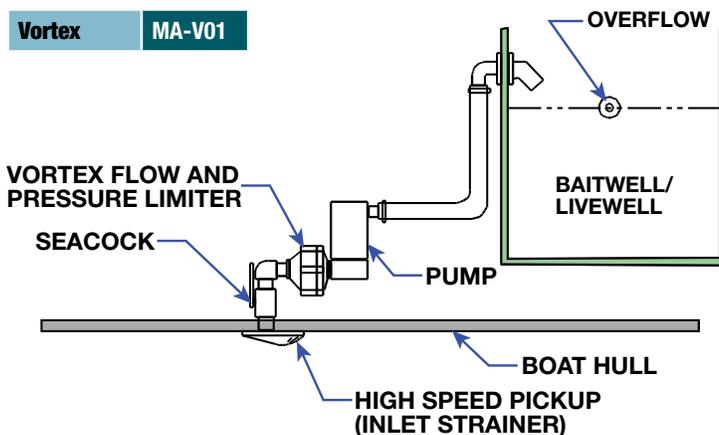


ProTimer Plus+™

VORTEX TO REGULATE WATER PRESSURE AND FLOW

Install a Vortex between your high speed pickup and pump inlet to regulate incoming water pressure and flow. Vortex works at any boat speed without operator assistance. Vortex promotes maximum pump life in all applications and protects sensitive fish from excessive pressure in livewell and baitwell applications.

Vortex **MA-V01**





REMOTE DRAIN PLUG

With today's high performance hull designs, jack plates and larger outboards, putting a drain plug in or taking one out can be a very unpleasant task. The Flow-Rite remote drain plug makes that job as simple as turning a switch.

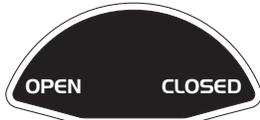


Remote drain plug with 6' cable	MA-RDP-006
Remote drain plug with 8' cable	MA-RDP-008
Remote drain plug with 10' cable	MA-RDP-010
Plug end assembly	MA-RDP-1000
Remote drain plug actuator	MC-1-D7-100
Gasket	MD-00209

- No more lying on a wet boat ramp to put in or take out a drain plug
- Never worry about forgetting your drain plug again!
- Easily open or close your drain plug from your console
- Easy to install on any fiberglass or aluminum hull with a 1" mounting hole
- Fresh or saltwater use

REPLACEMENT PARTS & HARDWARE

ACTUATOR DECALS



System 1



System 2



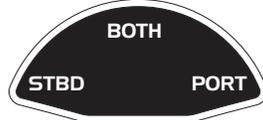
System 3



System 4



System 5



Ballast



"Flow-Rite"



"REAR"



"LIVWELL"



"STARBOARD"



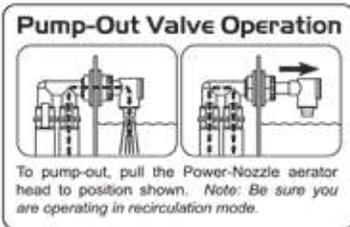
"FRONT"



"PORT"

Upper Decals	
System 1	MD-DCL-001-WHT
System 2	MD-DCL-002-WHT
System 3	MD-DCL-003-WHT
System 4	MD-DCL-004-WHT
System 5	MD-DCL-005-WHT
Ballast	MD-DCL-026-WHT
Knob Decals	
Flow-Rite logo	MD-DCL-010-WHT
"Livewell"	MD-DCL-011-WHT
"Front"	MD-DCL-012-WHT
"Rear"	MD-DCL-013-WHT
"Starboard"	MD-DCL-014-WHT
"Port"	MD-DCL-015-WHT

PUMP-OUT AERATOR OPERATION LABEL



POA operation label **MD-LBL-004**

- Operation instructions for the Pump-out aerator

SYSTEM OPERATION LABELS



System 1	MD-LBL-012
System 2	MD-LBL-013
System 3	MD-LBL-014
System 4	MD-LBL-015

- Operation instructions for the Flow-Rite livewell control systems shown in the valves section

CHROME BEZELS



3/4" Bezel	MA-065
1-1/8" Bezel	MA-066

- Chrome plated ABS bezels securely snap in place
- 3/4" bezel for use with MA-016 & MA-028 series thru-hulls
- 1-1/8" bezel for use with MA-063-QLB & MA-064-QLB thru-hulls

O-RINGS



Fits 3/4" Qwik-Lok socket	MD-00014
Fits 1-1/8" Qwik-Lok socket	MD-00066

- Replacement O-rings for Flow-Rite parts

REPLACEMENT PARTS & HARDWARE

ACTUATOR ADAPTOR PLATE



The two part adapter plate converts a 2-1/16" hole down to 1-3/4" allowing boats equipped competitive systems to be upgraded to a Flow-Rite actuator

Actuator adaptor plate

MA-010



SCREWS



#6-32 x 1/2"

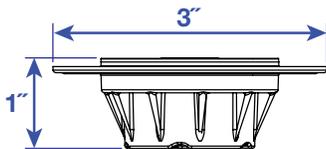
MD-00086

#6-32 x 3/4"

MD-00093

- #6-32 x 1/2", oval head, black oxide, stainless steel
- Used for mounting of MA-010 adapter plate and original style cable actuators with tapered holes. See MD-093 for mounting of new style actuators
- #6-32 x 3/4", truss head, black oxide, stainless steel
- Used for the mounting of cable actuators

BALLAST BAG FLANGE



Ballast bag flange

MA-116

- Threaded flange for use in ballast bags
- 1" NPT thread
- O-ring seal ensures a water tight connection
- Must be welded in place

VALVE REPAIR KIT

The valve repair kit includes 2 each of the standard and button flappers that will provide enough to replace any requirement for V1, V2, V3, and V4 valves, with the exception of pre 1998 versions of V1; replace with new V1 valve. (See chart on reverse). The valve arm and link will not fit the older RCV-75 valves, but the standard flappers, O-rings and cable mounting bracket will fit everything with the above mentioned exception.

Valve repair kit

MA-060

