



# OWNER'S MANUAL WATER MANAGEMENT SYSTEM

U.S. Patent No. 9,862,619 and 9,346,689 B2

A large, thick, black wavy graphic that spans the width of the page, positioned below the patent information and above the company contact details.

Franklin Water Treatment, LLC  
hellenbrand.com

**Congratulations** on your purchase of the Hellenbrand Water Management System. This patented water reuse system recovers water that normally would be discharged to the drain and stores it and uses the water to flush the toilets, helping preserve our most precious natural resource, water. This owner's manual is designed to assist owners and installers with the operation, maintenance, and installation of your new water reuse system. It is our sincere hope that this manual is clear, concise, and helpful to both the owner and installer. We have included detailed instruction diagrams and provided general operating information of the various components.

**Questions?** Should you have any questions regarding the installation, operation or servicing of this system, please contact the dealer you purchased this system from. Your dealer will be familiar with your particular situation and the required volume and flow required of your toilets and should be able to address your concerns promptly and efficiently.

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## INSTALLATION DATA

Waste Water Management System (WMS) Model: \_\_\_\_\_

Date of Installation: \_\_\_\_\_ Installed By: \_\_\_\_\_

Number of toilets fed by WMS: \_\_\_\_\_

Volume required to flush: \_\_\_\_\_ Pressure required to flush: \_\_\_\_\_

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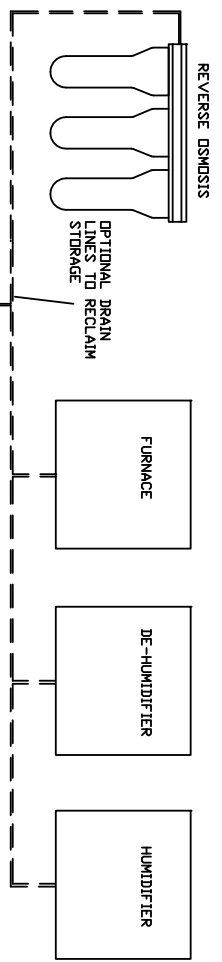
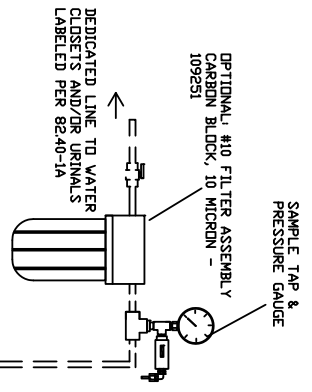
Dealer Name \_\_\_\_\_ Phone \_\_\_\_\_

Address \_\_\_\_\_ Email \_\_\_\_\_

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# INSTALLATION DRAWING

--- SUPPLIED BY INSTALLER

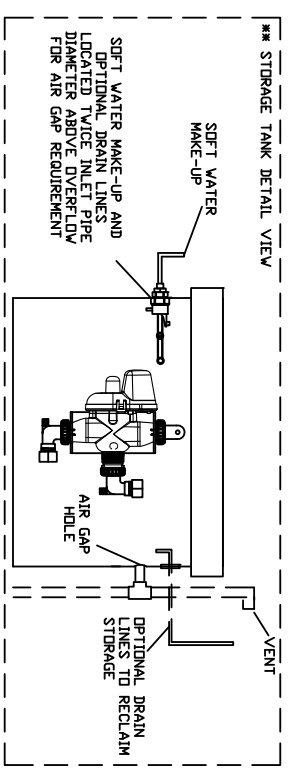
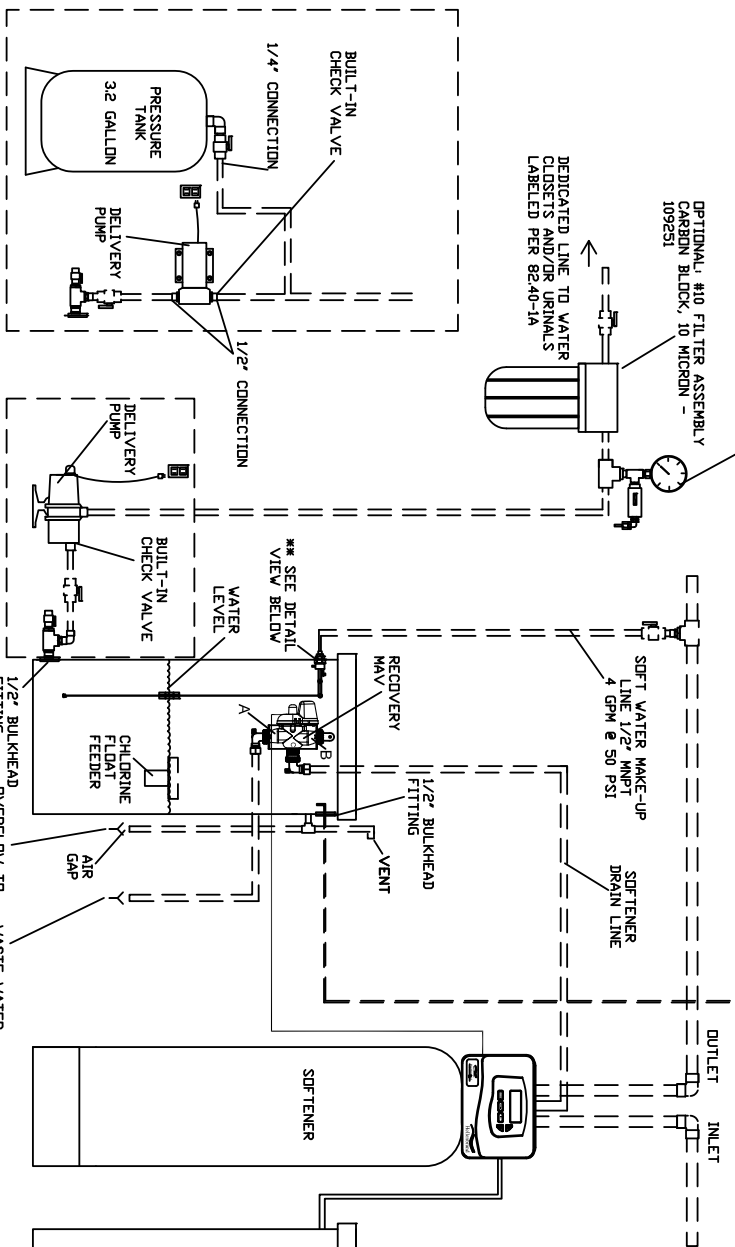


P/N	Storage Tank	Max Capacity	Max Fill Backwash	Max Standard Unit Size
109245	18x40 w/ 1" Overflow	35 Gal	6 GPM	48K
109246	24x50 w. 1.5" Overflow	82 Gal	9 GPM	120K
109247	30x50 w/ 2" Overflow	129 Gal	17 GPM	180K

P/N	MAV Size	Recovery Rate
109248	1"	Up to 21 GPM
109249	1.5"	Up to 46 GPM
TBD	2"	Up to 80 GPM

MAV Program Chart - Connected to AUX MAV Drive - Next & ▼, Next & ▼	
Step	Set to
AUX MAV TRIGGER START*	RECLAIM
DURATION*	Backwash + 12 min
	45 min

\* THIS IS THE TIME WATER IS BEING SENT TO DRAIN



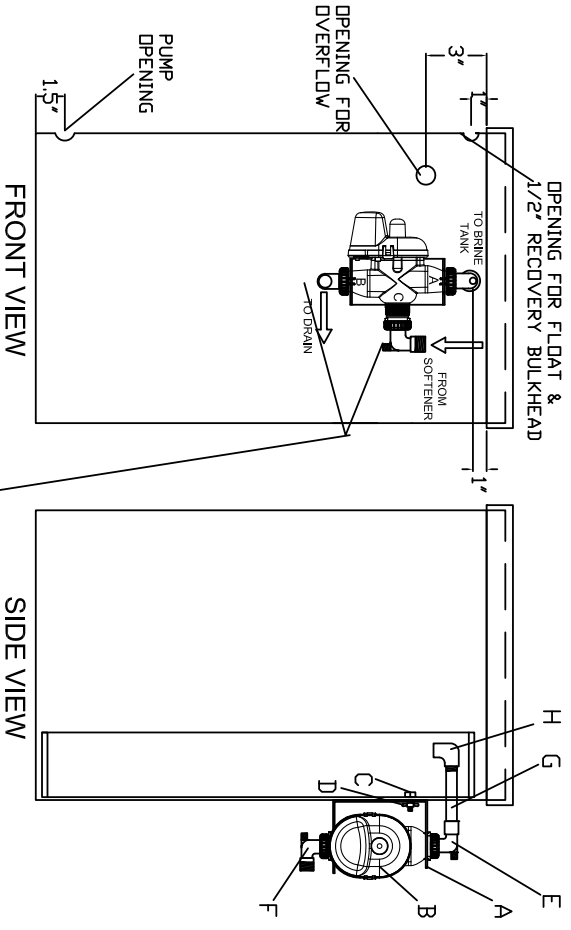
\*\*\* STORAGE TANK DETAIL VIEW

THIS IS A 'CLEAR WATER' ONLY REUSE SYSTEM AND NOT DESIGNED FOR GRAY WATER OR BLACK WATER OR STORM WATER. BESIDES OTHER WATER TREATMENT EQUIPMENT DISCHARGE, MAY USE WATER INCLUDING BUT NOT LIMITED TO NON-CONTACT COOLING WATER, CONDENSATE DRAINAGE FROM REFRIGERATION COMPRESSORS AND AIR CONDITIONING EQUIPMENT, DRAINAGE WATER FOR EQUIPMENT CHILLING PURPOSES AND COOLED CONDENSATE FROM STREAM HEATING SYSTEMS.

# MAV INSTALLATION DRAWING

1" MAV SYSTEM - 109248

Qty	P/N	Description
A	108015	1.25" Stainless Steel Bracket
B	V3069FF-01	1.25" MAV FxFXF
C	108013	1/2"-13 1" Nylon Bolt
D	108012	1/2"-13 Nylon Wing Nut
E	V3007-01	1" Solvent Elbow
F	V3007	1" MNPT Plastic Elbow
G	100612	3/4"x5" PVC80 Nipple MNPT
H	100463	3/4" PVC80 Elbow TXT

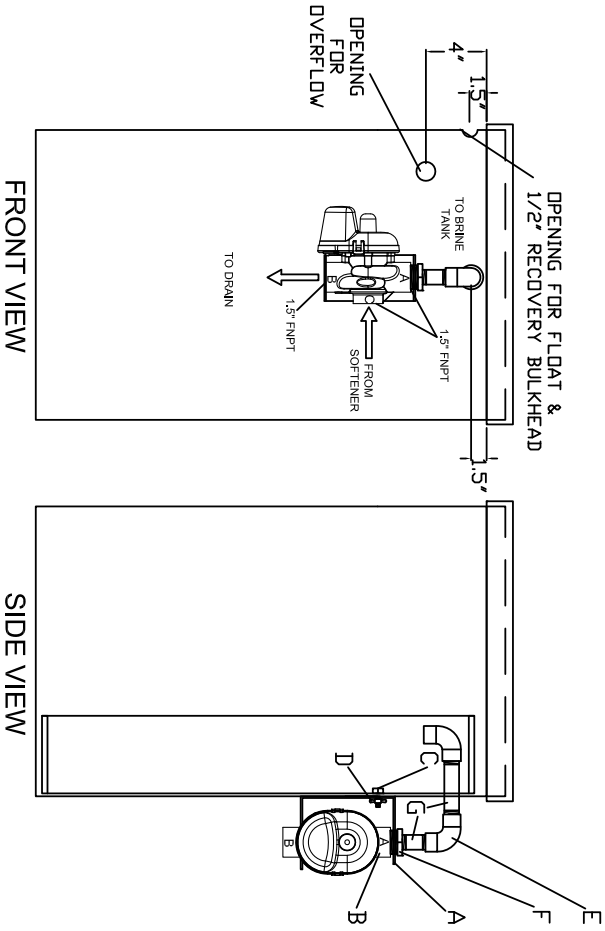


1" MNPT CONNECTORS SUPPLIED - OTHERS CAN BE SUBSTITUTED

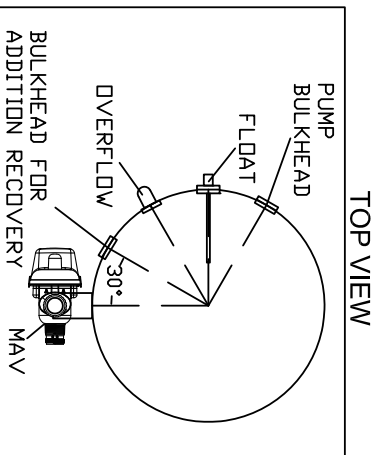
	Hole Size
Float Connection	7/8"
1/2" Bulkhead	1-3/8"
1-1/4" MAV	1"
1-1/2" MAV	2"
1" Overflow	1-1/4"
1-1/2" Overflow Bulkhead	2"
2" Overflow Bulkhead	3"
1/2" Bracket Support Nut	1/2"

1.5" MAV SYSTEM - 109249

Qty	P/N	Description
A	108016	1.5" Stainless Steel Bracket
B	V3071	1.5" MAV FxFXF
C	108013	1/2"-13 1" Nylon Bolt
D	108012	1/2"-13 Nylon Wing Nut
E	100466	1.5" PVC Elbow FPT
F	100628	PCV80 Nipple 1.5"x6" TXT
G	106181	PVC80 Nipple 1.5"x CL



INSTALL UNION CONNECTIONS ON MAV PORTS B & C



# INSTALLATION INSTRUCTIONS

## FOLLOW ALL STATE AND LOCAL PLUMBING CODES

1. Place water softener and WMS storage tank on clean, level and solid location.
2. Install softener according to installation instructions in softener manual.
3. Run drain line from softener to Motorized Alternating Valve (MAV) on storage tank and run drain line from MAV to drain in pipe capable of handling softener backwash flow rate.
4. Connect overflow to drain with proper air gap.
5. Install cold soft water make-up line to storage tank.
6. Install make-up float by flushing debris from lines before fitting. Mount valve horizontally in tank with outlet pointing down. Tape inlet thread with Teflon tape. Set bottom stop at desired on position and tie off cord at end of arm with firm knot (keep bottom stop away from tank outlet). Ensure weighted float is in correct position and cut excess cord to desired length. Avoid mounting valve near overflow outlet.
7. Plumb drains of any other reclaimable water supplies to storage tank. This is a “clear water” only reuse system and not designed for gray water or black water or storm water. Besides other water treatment equipment discharge, may use water including but not limited to non-contact cooling water, condensate drainage from refrigeration compressors and air conditioning equipment, drainage water for equipment chilling purposes and cooled condensate from steam heating systems.
8. Install delivery pump.
9. Turn on water to make-up line for initial fill of storage tank.
10. Install pressure gauge and sample tap.
11. If using the optional carbon filter for de-chlorinating water prior to toilets, install and add cartridge to the housing.
12. Prime the delivery pump.
13. Pressurize non-potable water supplies and check for leaks. Label re-use piping according to state and local requirements. In Wisconsin, see 82.40 of plumbing code, table 82.40-1a, below.
14. Place (1) chlorine tablet in floating chlorine dispenser and place in water.

## DEPARTMENT OF COMMERCE – COMM 82.40

### TABLE 82.40-1A DISTRIBUTION AND SERVICE

Supply	Tag and Band Color	Tag Shape	Tag Size	Tag Legend <sup>a</sup>
Potable	Green	Round	3” diameter	Safe Water
Nonpotable	Yellow	Triangle	4” Sides	Nonpotable Water or Not Safe for Drinking
Reuse (Nonpotable)	Purple	Triangle	4” Sides	Nonpotable Water or Not Safe for Drinking or Specific Use <sup>b</sup>
Device Specific <sup>c</sup>	Gray	Triangle	4” Sides	Specific Use <sup>b</sup>

<sup>a</sup> All nonpotable water outlets shall be identified at the point of use for each outlet with the following legends or as otherwise approved by the department.

<sup>b</sup> Tag should reflect the intended use.

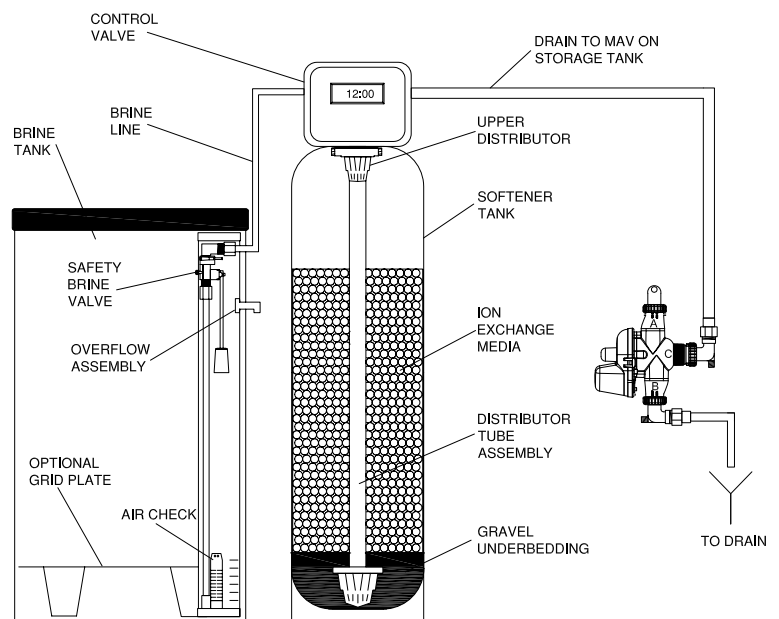
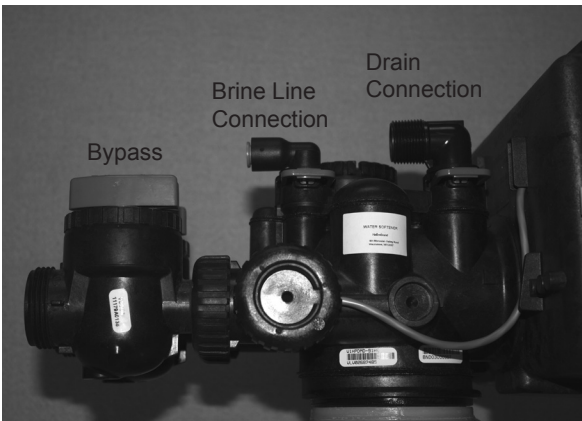
<sup>c</sup> Servicing an individual or similar plumbing fixtures or appliances.

# INSTALLATION INSTRUCTIONS

(All electrical & plumbing should be done in accordance to all local codes)

- Do not use vaseline, oils, other hydrocarbon lubricants or spray silicone anywhere. A silicon lubricant may be used on black o-rings but is not necessary. **Avoid any type of lubricants, including silicone, on red or clear lip seals.**
  - **Do not use pipe dope or other sealants on threads. Only teflon tape may be used on threads. Teflon tape is not necessary on the nut connection or caps because of o-ring seals.**
  - The pipe size for the drain line should be a minimum of 5/8". Backwash flow rates in excess of 7 gpm or length in excess of 20' require 1" drain line.
1. Place the conditioner where you want to install it, making sure it is on a clean, level and firm base.
  2. Do all necessary plumbing (inlet to inlet, outlet to outlet and drain line to drain). The control valve, fittings and/or bypass are designed to accommodate minor plumbing misalignments but are not designed to support the weight of a system or the plumbing.
  3. When assembling the installation fitting package (inlet and outlet), connect the fitting to the plumbing system first and then attach the nut, split ring and o-ring. Heat from soldering or solvent cements may damage the nut, split ring or o-ring. Solder joints should be cool and solvent cements should be set before installing the nut, split ring and o-ring. Avoid getting primer and solvent cement on any part of the o-rings, split rings, bypass valve or control valve.
  4. **A jumper ground wire should be installed between the inlet and outlet pipe whenever the metallic continuity of a water distribution piping system is interrupted. Install grounding strap on metal pipes.**
  5. The drain connection may be made using either 5/8" poly tube (If using 5/8" poly tube for drain, compression nut, and the poly tube insert must be purchased separately) or a 3/4" female adaptor. If soldering joints near the drain, must be done prior to connecting the drain line flow control fitting. Leave at least 6" between the drain line control fitting and solder joints when soldering pipes that are connected on the drain line control fitting. Failure to do this could cause interior damage to the drain line flow control fitting.
  6. The brine refill flow control assembly is installed in an easy to access refill elbow located on top of the control valve. The refill flow control assembly is attached to the control valve with a locking clip. The locking clip allows the elbow to rotate 270 degrees so the outlet can be orientated towards the brine tank.
  7. Remove 3/8" black brine line from brine tank. Connect to control valve at brine line elbow, using white plastic insert tubing found on locking clip. See below.
  8. Make sure floor is clean and level beneath brine tank. No grid is required with standard brine tanks as softener is programmed as prefill.

A 1/2" (inside diameter) gravity drain line should be connected to the overflow elbow on the side of the brine tank and run to a drain below the level of the elbow. This overflow drainage system provides protection from water damage in the event of a brine shut-off malfunction. Tubing is not provided to do this. **In all cases where an overflow could result in water damage for various reasons, this overflow protection must be used. Do not connect the tubing to the drain line on the control valve discharge line and do not run this line above the overflow elbow height at any point. Provide air gap.**



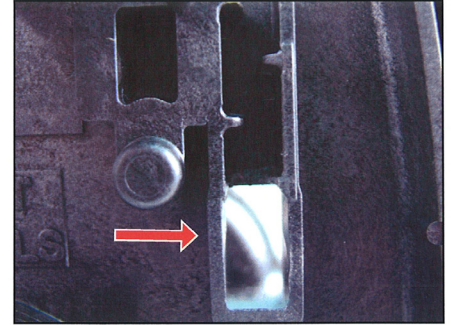
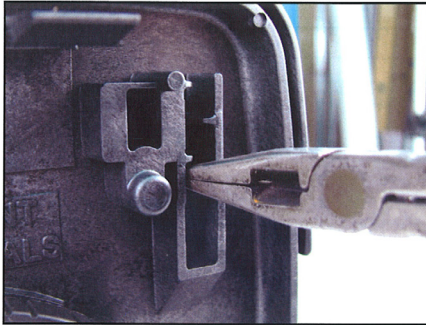
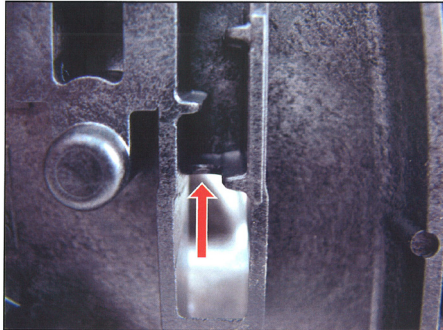
# WIRE MAV TO PM SERIES CONTROL

## WIRING OPTION 1:

MAV Drive Cable must be connected to PC Board prior to programming or error 116 will result.

If installing any place other than brine tank, allow 4" of clearance above for service access. After plumbing completed, next installation step is to provide access for MAV cable through back of valve. This is done by breaking off plastic tabs on back plate to thread cable through back and attach to two-pin connection labeled DRIVE on PC board.

1. Remove valve cover.
2. Remove drive bracket by lifting two tabs at top of back plate and lift bracket out of bottom supports; set aside.
3. With needle nose pliers, break plastic tab off bottom of LEFT cable guides so MAV cable can fit through.



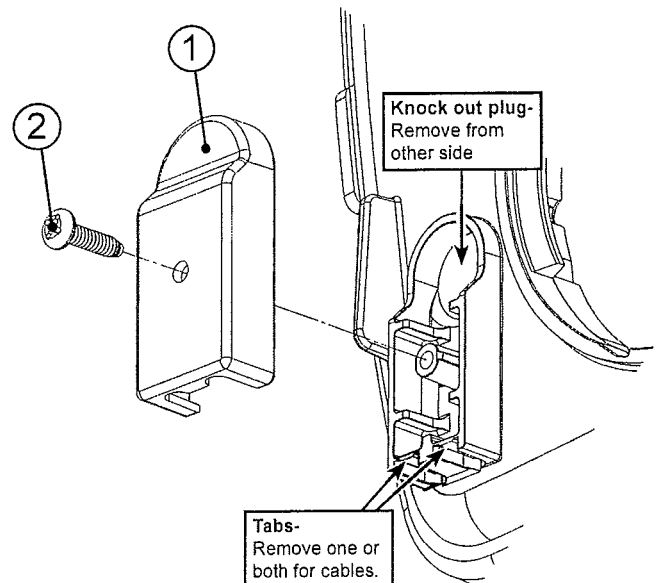
4. Route MAV drive cable through left side of back plate along with meter cable and weave through guides, push snugly into place. Allow about 1 foot of cable to attach to PC board. Snap drive bracket into place and route MAV cable to the left of PC board and plug into two-pin connection marked DRIVE on PC board. Verify all connections are securely plugged into PC board.

5. Replace cover, plug 12V transformer into outlet that cannot be switched off and proceed to programming.

## WIRING OPTION 2:

### STRAIN RELIEF COVER KIT

1. Remove valve cover and drive bracket assembly.
2. From the valve cover side, use a punch and hammer to remove the knock out plug.
3. Smooth the edge of the hole if needed.
4. Use pliers to remove one or both tabs as needed.
5. Run cable(s) through the strain relief feature on the back plate.
6. Reinstall the drive bracket assembly and connect the cables. Adjust cable length if necessary. Do not let the cables come in contact with the drive gear assembly.
7. Install strain relief cover and secure using screw.

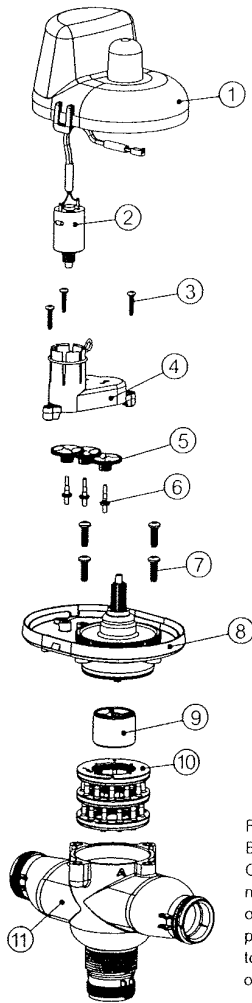


ITEM NO.	ORDER NO.	DESCRIPTION	QTY.
1	V3722	Strain Relief Cover Backplate	1
2	V3804	Screw 6x1/2 PHPN T-25 SS	1

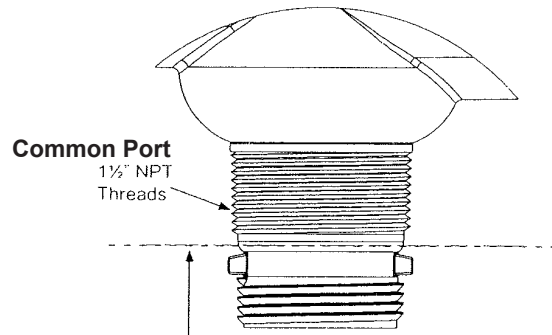
# THREE-WAY, 1" MAV-FNPT, PART NUMBER: V3069FF-01

## Exploded Parts View

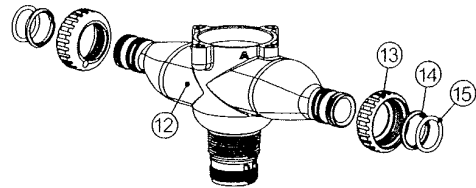
Drawing No.	Order No.	Description	102032(F-F)	102033(M-M)
1	V3073	MAV/NOHWBY COVER ASY	1	1
2	V3476	WS MOTOR ASY 8 FT	1	1
3	V3592	SCREW #8-3/4 PHPN T-25 SS	3	3
4	V3262-01	WS1.5 & 2Alt/2BY REDUCGEARCVASY	1	1
5	V3110	WS1 DRIVE GEAR 12X36	3	3
6	V3264	WS2 BYPASS REDUCTION GEAR AXLE	3	3
7	V3527	SCREW 1/4-20 X 3/4 BHSCS SS	4	4
8	V3072	MAV/NOHWBY 1/125/15 DRIVE ASY	1	1
9	V3506-01	MAV/NOHRD 1/125/15 PISTON	1	1
10	V3074	MAV/NOHWBY 1/125/15 STACK ASY	1	1
11	15-V3504FF	MAV BODY 1/125 ASY F-F	1	N/A
12	15-V3504MM	MAV BODY 1/125 ASY M-M	N/A	1
13	V3151	WS1 NUT 1 QC	N/A	2
14	V3150	WS1 SPLIT RING	N/A	2
15	V3105	O-RING 215	N/A	2
Not Shown	15-V3474-01	WS ALT MAV 1/125 CORD 8FT BLK	1	1



Female ports, labeled A or B, may be connected using Clack fitting packages. The motorized alternating valve outlet accepts Clack fitting packages or may be removed to use 1½" NPT threaded outlet.



Quick Connect Nut Threads can be cut off to allow access to 1½" NPT Threads. Deburr and clean edge after cutting.  
NOTE: Teflon tape is required when using the 1½" NPT Threads.



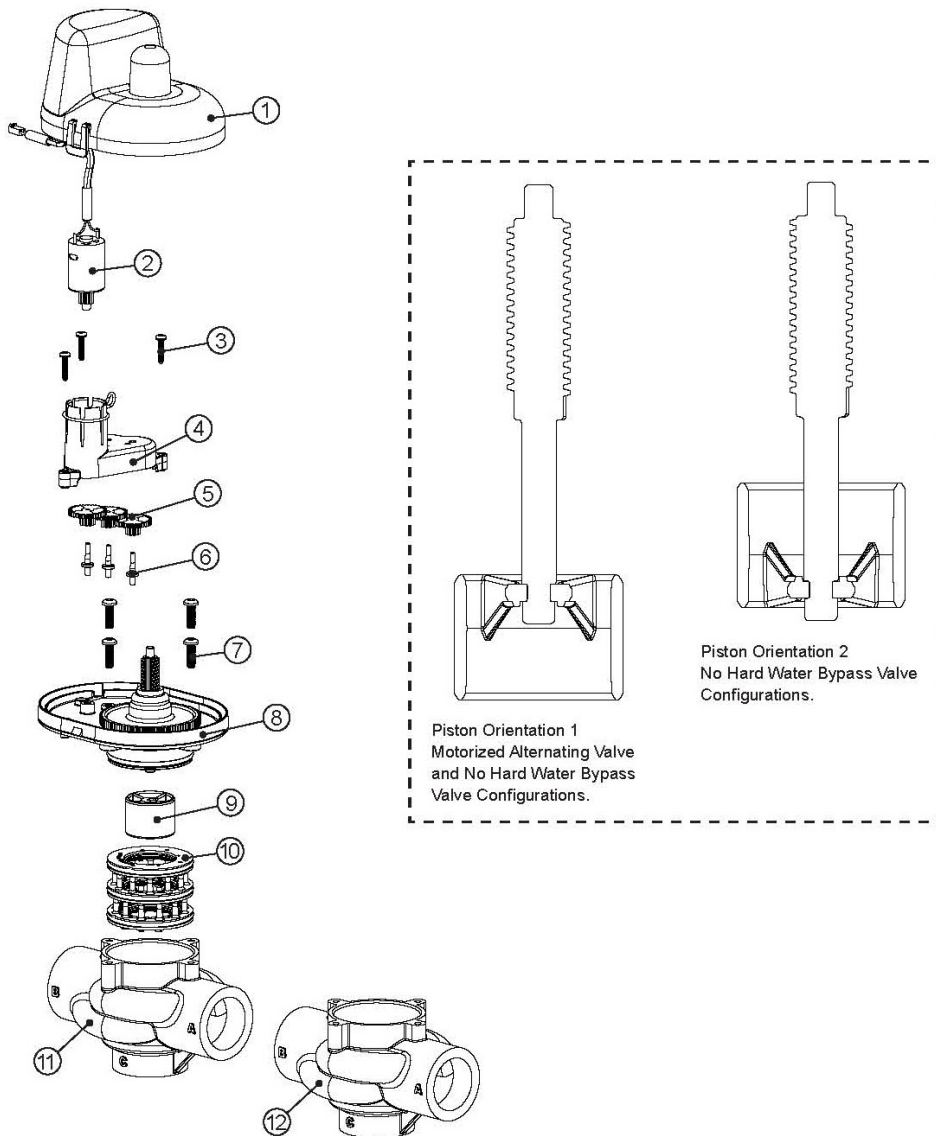
Male ports, labeled A or B, may be connected directly to a Clack 1" or 1.25" control valve outlet or to a V3191-01 vertical bypass adapter assembly. The motorized alternating valve outlet accepts Clack fitting packages or may be removed to use 1½" NPT threaded outlet.



# THREE-WAY, 1.5" MAV, PART NUMBER: V3071

## Exploded Parts View

Drawing No.	Order No.	Description	105988	15-V3071BSPT
1	V3073	MAV / NOHWBY COVER ASSY	1	1
2	V3476	WS MOTOR ASY 8 FT	1	1
3	V3592	SCREW #8-3/4 PHPN T-25 SS	3	3
4	V3262-01	WS1.5&2ALT/2BY REDUCGEARCVASY	1	1
5	V3110	WS1 DRIVE REDUCING GEAR 12X36	3	3
6	V3264	WS2 BYPASS REDUCTION GEAR AXLE	3	3
7	V3527	SCREW 1/4-20 X 3/4 BHSCS SS	4	4
8	V3072	MAV/NOHWBY 1/125/15 DRIVE ASSY	1	1
9	V3506-01	MAV/NOHRD 1/125/15 PISTON	1	1
10	V3074	MAV/NOHWBY 1/125/15 STACK ASSY	1	1
11	V3525-01	MAV BODY 1.5 NPT	1	N/A
12	V3525BSPT-01	MAV BODY 1.5 BSPT	N/A	1
Not Shown	V3474	WS ALT CONNECT CORD 8FT BLK	1	1



# WATER MANAGEMENT SYSTEM PROGRAMMING:

Press ▲ and ▼ arrows to select desired option. Press NEXT to go to next step (Press REGEN to go to previous step)

Press NEXT & ▼ for 3 seconds or until display changes. Release and Press NEXT & ▼ for 3 seconds again until valve type is displayed.

	\
ENTER VALVE TYPE	1.0 / 1.25 / 1.5 / 2.0 / 2.0L
ALTERNATOR SYSTEM (As Needed)	<b>OFF</b>
SET RINSE OPTION	OFF
AUXILIARY MAV TRIGGER	RECLAIM
RECLAIM START	20:00 (Backwash +12 mins)
RECLAIM DURATION	48:00 (Remainder of Brine/Slow Rinse)
AUXILIARY INPUT	OFF
SET CYCLE 1	FILL
SET CYCLE 2	SOFTENING
SET CYCLE 3	BACKWASH
SET CYCLE 4	REGENERANT DRAW DN
SET CYCLE 5	RINSE
SET CYCLE 6	END
ALTERNATE FILL TRIGGER	OFF

Use ▼ ▲ arrows to select

or select cycle sequence options as desired

Press NEXT & ▼ for 3 seconds.

Choose "SOFTENING" Or "FILTERING"	"SOFTENING"
1 – FILL # of SALT	SEE SPEC
2 – SOFTENING TIME	120
3 – BACKWASH TIME	SEE SPECIFICATION
4 – DRAW TIME	SEE SPECIFICATION
5 – RINSE TIME	SEE SPECIFICATION
CAPACITY	SEE SPECIFICATION
Set RESERVE	AUTO
Set REGENERATION TYPE	<b>DELAYED</b>
RELAY DRIVER 1	<b>OFF</b>
RELAY DRIVER 2	<b>OFF</b>
SERVICE CALL	<b>OFF</b>

**H125 Series is factory programmed with fill cycle as final cycle.**

Press NEXT & ▲ for 3 seconds.

SET HARDNESS	PER APPLICATION
SET DAYS BETWEEN REGEN	<b>14</b>
SET HOUR OF REGENERATION	<b>2:00 AM</b>
SET MINUTE OF REGENERATION	<b>2:00 AM</b>

# DELIVERY PUMP OPTION:

<u>Part No.</u>	<u>Description</u>
107368	4.90 GPM open flow – QD ports – 60 PSI – 115 volt with cord
	2.15 GPM @ 40 PSI - 115 Volt

## AQUATECH WATER PUMPS

### 550 Series Super Flow Pump

#### Key Operational Benefits:

- Unparalleled performance
- 1.5 to 5.5 GPM (20 lpm) flow
- Up to 100 psi (7 bars) pressure
- 7 year design life
- Highly efficient
- Minimal pulsations
- Whisper quiet at lower flows
- Self priming
- Can run dry without damage
- Chemically resistant versions

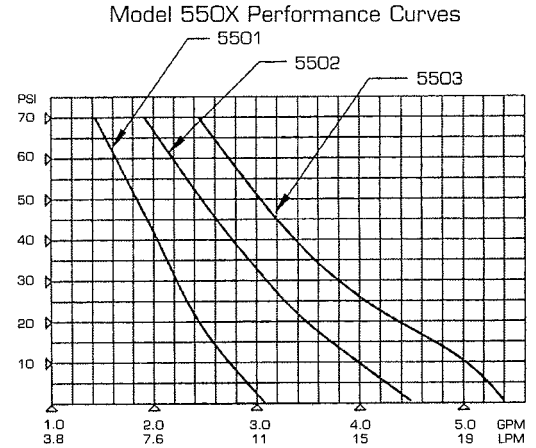
#### Technical Specifications:

**OPERATION:** The 550 pump can draw water from a holding tank and pressurize it, or boost the pressure from a low pressure source. It is designed to operate intermittently, but most versions can run continuously for several hour intervals. It can be operated in demand mode controlled by an integral pressure switch, or in delivery mode controlled by an external power switching device.

**POWER:** The power demand varies depending on flow and pressure from 50W to 200W. Motors are available in various configurations from 12 VDC to 230 VAC. Transformers or DC power supplies are optional and must be ordered separately if applicable. Standard terminations are 12" long 16 AWG lead wires with a stripped end, connectors or cords with plugs.

**MOUNTING:** A steel mounting base with four hollow rubber grommets is standard and included at no extra cost. The pump may be mounted in any position.

**FITTINGS:** The standard pumphead has a .750" port opening that accepts "quick-connect" beverage style O-ringed barb fittings, or John Guest fittings that can be used with 3/8", 1/2", 5/8" or 3/4" tubing. The pump can also be ordered with a 1/2 NPT female port. Always consult the factory for recommendations that will optimize your system.



NOTE: 0 PSI suction pressure – 70° Water Temperature  
\*Performance will vary with operating conditions

# DELIVERY PUMP OPTION:

## Description

6PM @ 49 / 12GPM @ 36 PSI

## GRUNDFOS MQ - MQ 3-45

### Compact, all-in-one unit for your home water supply

#### Easy to select

The Grundfos MQ is a compact pump and pressure boosting unit specially designed for home water supply. It is a reliable and very easy-to-operate unit that can be fitted almost anywhere. The pump is self-priming, which means that it is capable of drawing water from a well depth of down to 8m. As the MQ has a built-in pressure tank, you do not need a space-consuming tank.

The MQ pump is also ideal for boosting pressure from elevated or sub-terrain water storage tanks or from the water mains.

#### Easy to install

The Grundfos MQ pump is easy to install. The compact, horizontal design makes the pump easy to place even where space is limited. The outlet pipe connection can be angled up to 5" to fit existing pipework.

Due to the built-in pressure tank and integrated start/stop features there is no need for adjusting a separate pressure switch.

The MQ is water-cooled and therefore has no noisy cooling fan. As it is self-priming, it is not necessary to allow free space around the pump for priming.

#### Easy to operate

Operation of the Grundfos MQ pump is simple and easy. Once installed it needs only a push on the "On" button to provide many years of reliable service. The actual settings are clearly indicated by indicator lights on the user-friendly control panel.

The MQ pump has a small built-in pressure tank, sufficient to ensure that water is readily available from the tap. The pump starts automatically as soon as the tap is opened and no loss of pressure is felt.

#### Unique user benefits

The Grundfos MQ "anti-cycling" feature prevents the pump from continuously starting and stopping in the event of a dripping tap or minor leak in the system.

The MQ pump has built-in dry-running protection. If for any reason water is not available, the pump automatically switches off. It will subsequently attempt to re-start every half hour for up to 24 hours until water is again available.

The pump also has a built-in thermal protection. If it overheats, the pump will stop immediately. After a 30-minute cooling-down period, the pump will automatically restart.

#### Corrosion-free

The Grundfos MQ pump is built for long-term, trouble-free operation. It is made of weatherproof, corrosion-resistant materials and can, if necessary, be placed outdoors.

A drain plug enables easy draining of the pump. This is especially convenient if the pump is installed in a front-risk location such as a holiday cottage. The MQ pump is suitable for rainwater and will not contaminate drinking water.

#### User-friendly control panel

The Grundfos MQ features an easy-to-use control panel with indicator lights for indication of

- pump on
- auto-reset
- alarm (dry-running or overheating)

In the even of dry-running, the pump will stop and afterwards attempt to restart automatically. Restarting can also be done manually. If required, the auto-reset function can be disabled.



# PRESSURE TANKS FOR DELIVERY SYSTEM

<u>Part No.</u>	<u>Description</u>
C2000F	3.2 Gallons
C1999F	4.4 Gallons

Flexcon Industries has established itself as a leader in pressure tank technology. The FRO Series reverse osmosis storage tanks are the latest in a long line of innovative, high quality products. Made of superior materials and meeting the stringent standards of MSF 58, these tanks are available in 3 sizes. At the heart of the tank is 100% butyl rubber diaphragm that has been post cured to eliminate any unwanted taste and odors. Combined with a polypropylene liner it keeps system water contained in a sealed water chamber. A double gasketed stainless steel connection assures the integrity of the water treatment system. The bottom dome of the smaller tanks has been enhanced with 4 rounded legs to insure installation stability and the 14 gallon tank includes a rugged poly base. Each tank is pressure tested and has a maximum working pressure of 125 PSI.

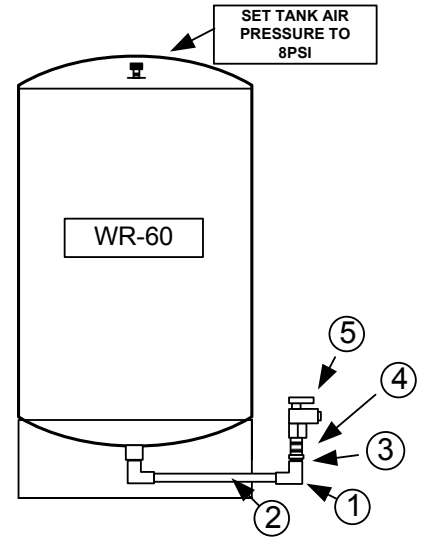
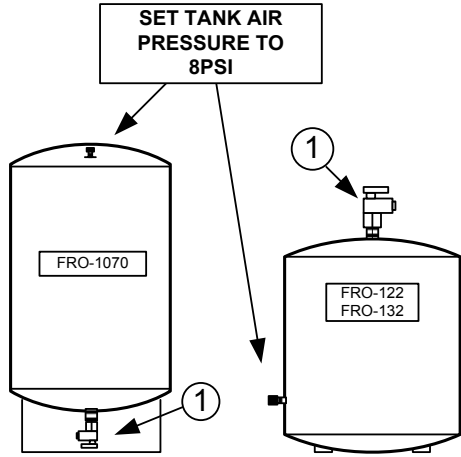
## Features:

- Stainless Steel Connection
- 100% Butyl Diaphragm
- Polypropylene Liner
- Enhanced bottom dome
- NSF Standard 58 Listed



Parts for 103695

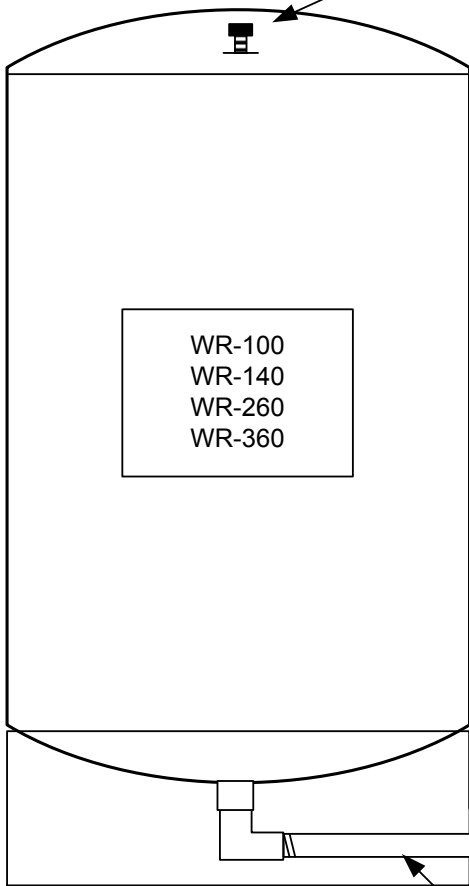
ITEM #	QUA	PART #	DESCRIPTION
		C2000F	FRO-122 3.2 GALLON TANK
		C1999F	FRO-132 4.4 GALLON TANK
		C2003F	FRO-1070 14 GALLON TANK
1	1	102844	1/4" FNPT x 3/8" JG VALVE



Parts for 103696

ITEM #	QUA	PART #	DESCRIPTION
		C2004FW	WR-60 TANK 20 GALLONS
1	1	100469	1" T x T elbow CPVC
2	1	100634	1" x 10" nipple CPVC
3	1	100359	1" X 1/4" bushing CPVC
4	1	100633	1/4" X close nipple CPVC
5	1	102844	1/4" FNPT x 3/8" JG VALVE

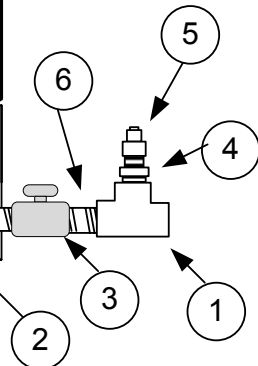
SET TANK AIR PRESSURE TO 8PSI



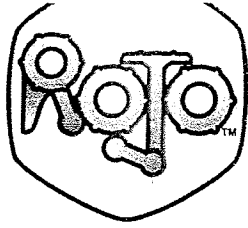
Parts for 103697(CPVC) & 103698\*(PVC-80)

ITEM #	QUA	CPVC PART #	*PVC80 PART #	DESCRIPTION
		C2005FW	C2005FW	WR-100 TANK 32 GALLONS
		C2006FW	C2006FW	WR-140 TANK 44 GALLONS
		C2007FW	C2007FW	WR-260 TANK 85 GALLONS
		C2008FW	C2008FW	WR-360 TANK 120 GALLONS
1	1	109800	100728	1-1/4" TEE TxTxT
2	1	100635	100624	1-1/4" x 12" Nipple
3	1	109801	100769	1-1/4" Ball Valve
4	1	100360	109798	1-1/4"x1/2" Reducer Bushing
5	1	100420	100420	1/2" Tube x MNPT ADPT
6	1	109799	100622	1-1/4" x CL Nipple TxT

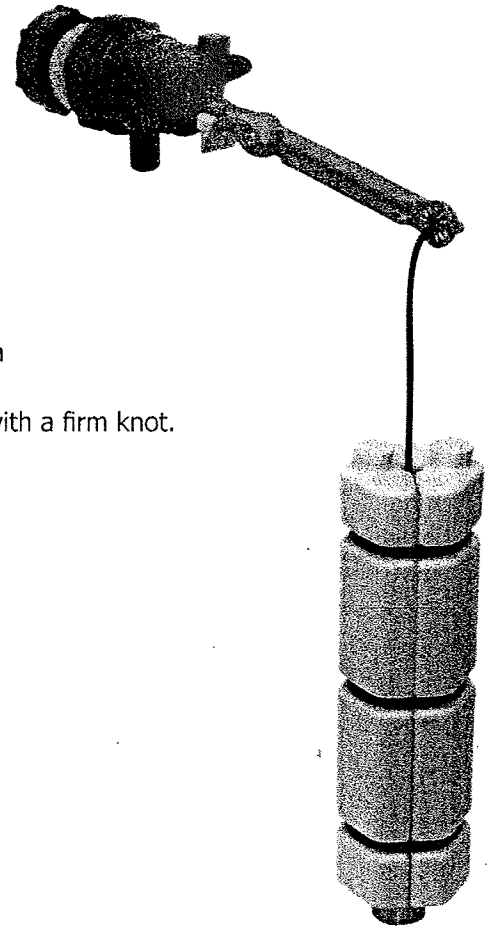
\*103698 (PVC-80) is not approved for potable use in the state of WI



# FLOAT ASSEMBLY, PART NUMBER 109148



## PART FILL

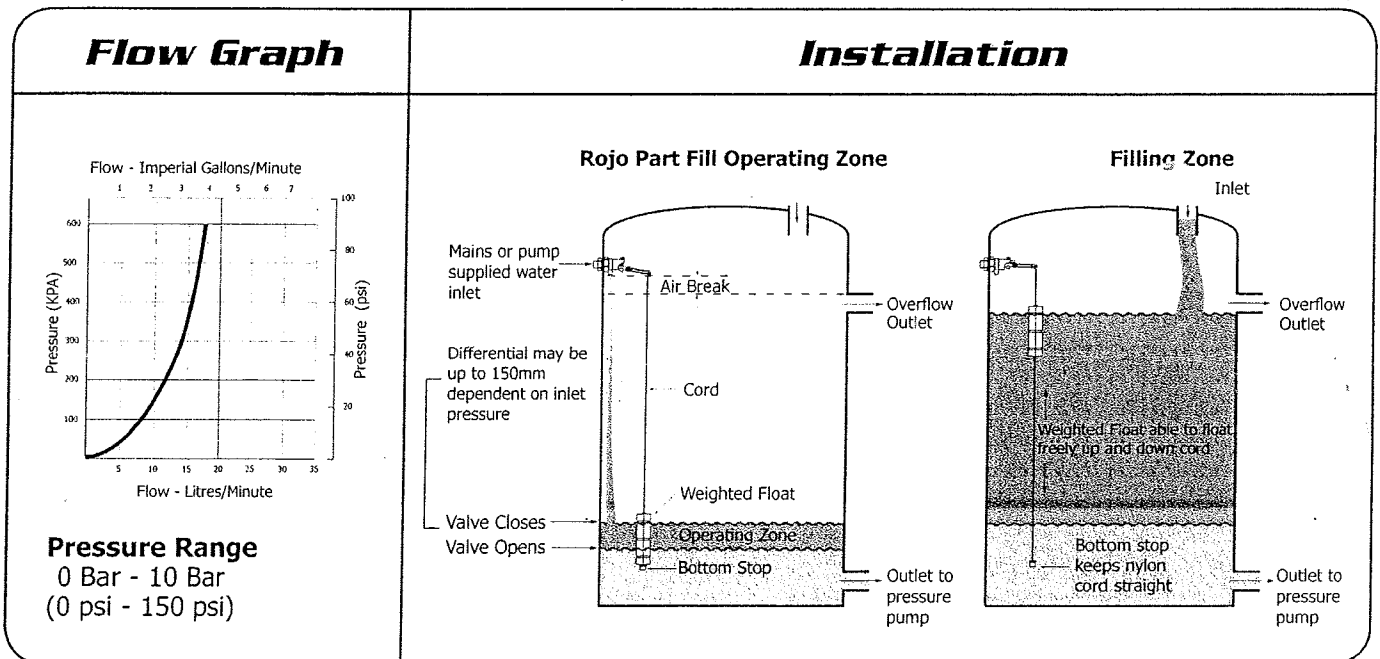


### Installation Instructions

- Flush Debris from pipe lines thoroughly before fitting
- Ensure valve is mounted horizontally in tank with outlet pointing down
- Use thread seal tape on inlet thread
- Set bottom stop at desired on position and tie off cord at end of arm with a firm knot.  
NB : Keep bottom stop well away from tank outlet
- Ensure weighted float is in correct position
- Cut off excess cord to desired length
- N.B Avoid mounting valve directly next to an overflow outlet

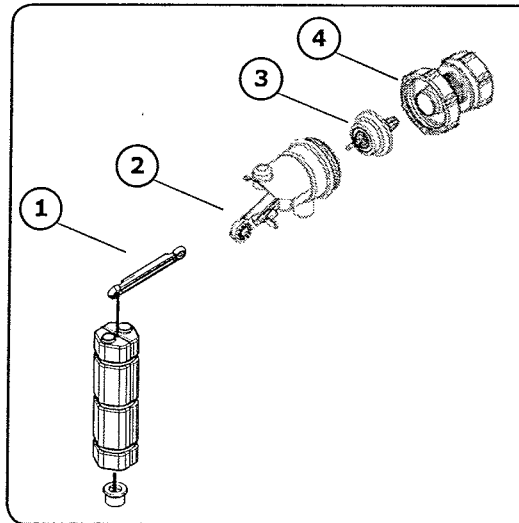
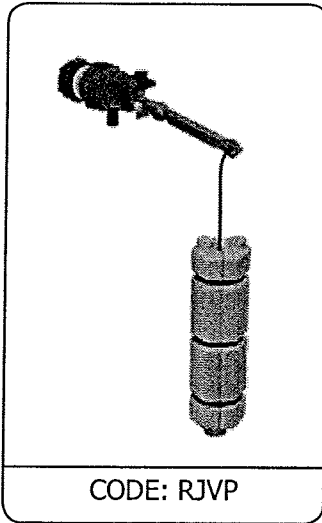
### Features

- Ideal for use with all makes and models of rain water harvesting tanks
- Compatible with trickle flow restrictors
- Compact
- Constructed from non corroding materials
- Built in non return valve
- Valve can be locked in off position using the lock off switch
- Flow stops when unscrewed for servicing

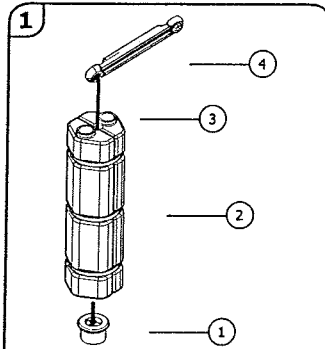




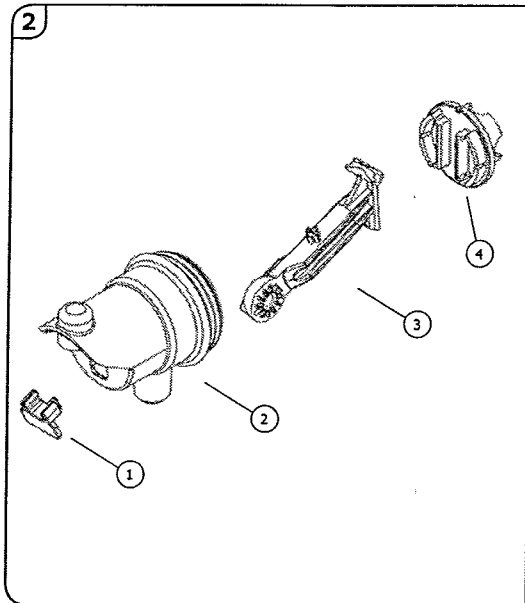
# Partfill



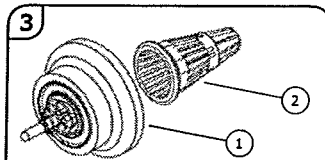
CODE	DESCRIPTION
1 RJPP1	Float Assembly
2 RJPP2	Body Assembly
3 RJPP3	Inner Cartridge Assy (PF)
4 RJP415	15mm (1/2") Tail Assy
RJP420	20mm (3/4") Tail Assy
RJPP420E	20mm (3/4") Ezi Start Tail Assy



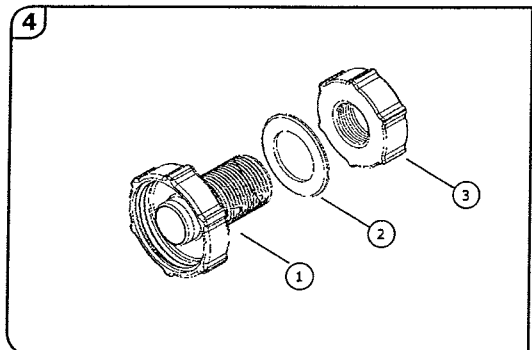
CODE	DESCRIPTION
1 RJPP1010	Bottom Stop (PF)
2 RJPP1020	Weighted Float (PF)
3 RJPP1030	Cord (PF)
4 RJPP1040	Rojo Part Fill Long Arm



CODE	DESCRIPTION
1 RJP2010	Lock-Off Switch
2 RJP2030	Body
3 RJPP2041	Arm Assy Grey
4 RJPP2051	Retainer Grey



CODE	DESCRIPTION
1 RJPP3011	Inner Cartridge Part Fill
2 RJP3020	Filter



CODE	DESCRIPTION
1 RJP4010	15mm (1/2") Tail
RJP4011	20mm (3/4") Tail
RJP4012	20mm (3/4") Tail Ezi Start
2 RJP4020	15mm Seal Washer
RJP4021	20mm Seal Washer
3 RJP4030	15mm (1/2") Backing Nut
RJP4131	20mm (3/4") Backing Nut



# 18-INCH ROUND BRINE TANKS



18x40 Brine Tank with Blow Molded Cover



18x33 Brine Tank with Black Injection Molded Cover

18 inch blow molded round brine tanks offer a refreshing look in the residential and light commercial tank field. Durable materials and the latest in plastic processing technology provide trouble-free performance. Ultraviolet inhibitors (UVI) are now standard in all tanks except black, which has a natural resistance to the sun's rays. Three different sizes are available.

### Advantages:

- Attractive design to meet customer appeals with four modern stock colors to choose from — almond, blue, black and white. (Custom colors available.)
- Blow molded from high-density polyethylene to give exceptional environmental stress-crack properties providing years of trouble-free service.

ORDER NUMBER	DESCRIPTION
104492	18x40 Tank with Blow Molded Cover

TANK SIZE	LIQUID CAPACITY		SALT CAPACITY		DIAMETER		HEIGHT W/ LID		SHIPPING WEIGHT		MASTER CARTON
	in.	gal.	liters	lbs.	Kg	in.	cm	in.	cm	lbs.	Kg
18 x 40	43	163	450	205	18½	47	40¾	104	15	6.8	9/1

# 24" AND 30" COMMERCIAL/INDUSTRIAL BLOW MOLDED TANKS



30x50 Black Brine Tank



24x50 Black Brine Tank

Hellenbrand now offers both 24" and 30" round blow molded tanks. The introduction of the 30" diameter tank makes it the largest blow molded tank for commercial/industrial applications. Like the 24" round tank, the 30" tank is molded of high density polyethylene for exceptional stress and crack resistant properties. These tanks are ideal for industrial and commercial use and the 30" tank feature heavy wall thickness for increased durability.

Injection molded grids are available for both 24" and 30" tanks and use 1½" schedule 40 PVC pipe for leg supports. The legs can be cut to any length for easy grid height adjustment. A precut leg kit for the 24" grid is also available, giving it an overall grid height of 10¼".

ORDER NUMBER	DESCRIPTION	LIQUID CAPACITY	SALT CAPACITY	HEIGHT W/LID	DIAMETER	SHIPPING WEIGHT	CARTON SIZE	UNITS PER CARTON
G22450CB1C00	24 x 50 Black Brine Tank	100 gal./ 378 liters	900 lbs./ 408 Kg	51.5 in/ 131 cm	24.5 in./ 62 cm	27.25 lbs./ 12.4 Kg	18 ft. <sup>3</sup>	1
G23050CB1C00	30 x 50 Black Brine Tank	150 gal./ 579 liters	1400 lbs./ 640 Kg	52.5 in/ 133 cm	31 in./ 79 cm	49 lbs./ 22.3 Kg	30 ft. <sup>3</sup>	1

## CHLORINE DISPENSER OPTION

" A proven leader in chlorine dispensers with years of customer use and satisfaction in the pool and spa market"

Place (1) 1" trichlor tablet in dispenser. Adjust feed rate by turning collar. The larger the opening, the greater the feed rate.

