

MONTARA WATER FEATURE:
Installation Instruction Appendix



MAW-4848



MAW-9648



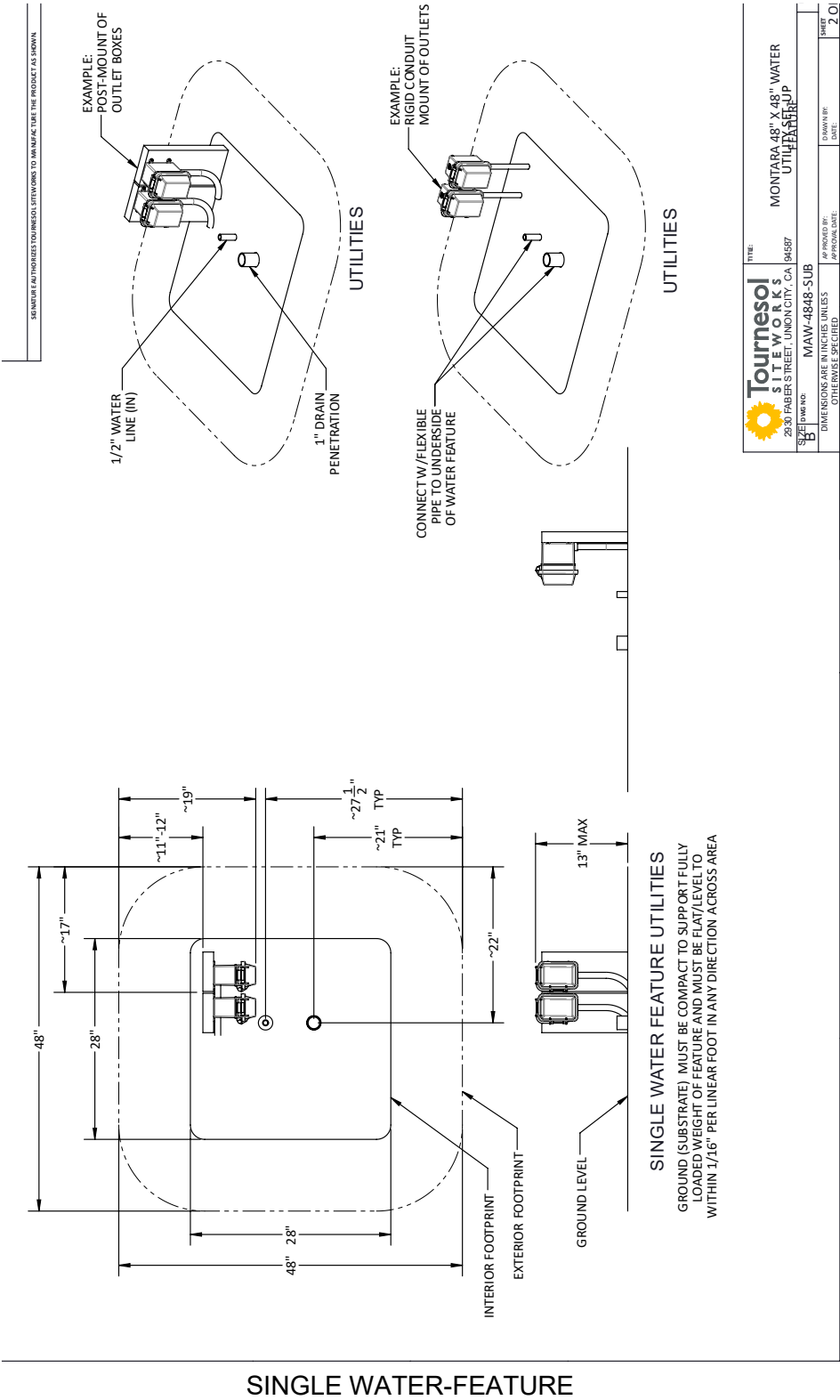
MAW-14448

INDEX

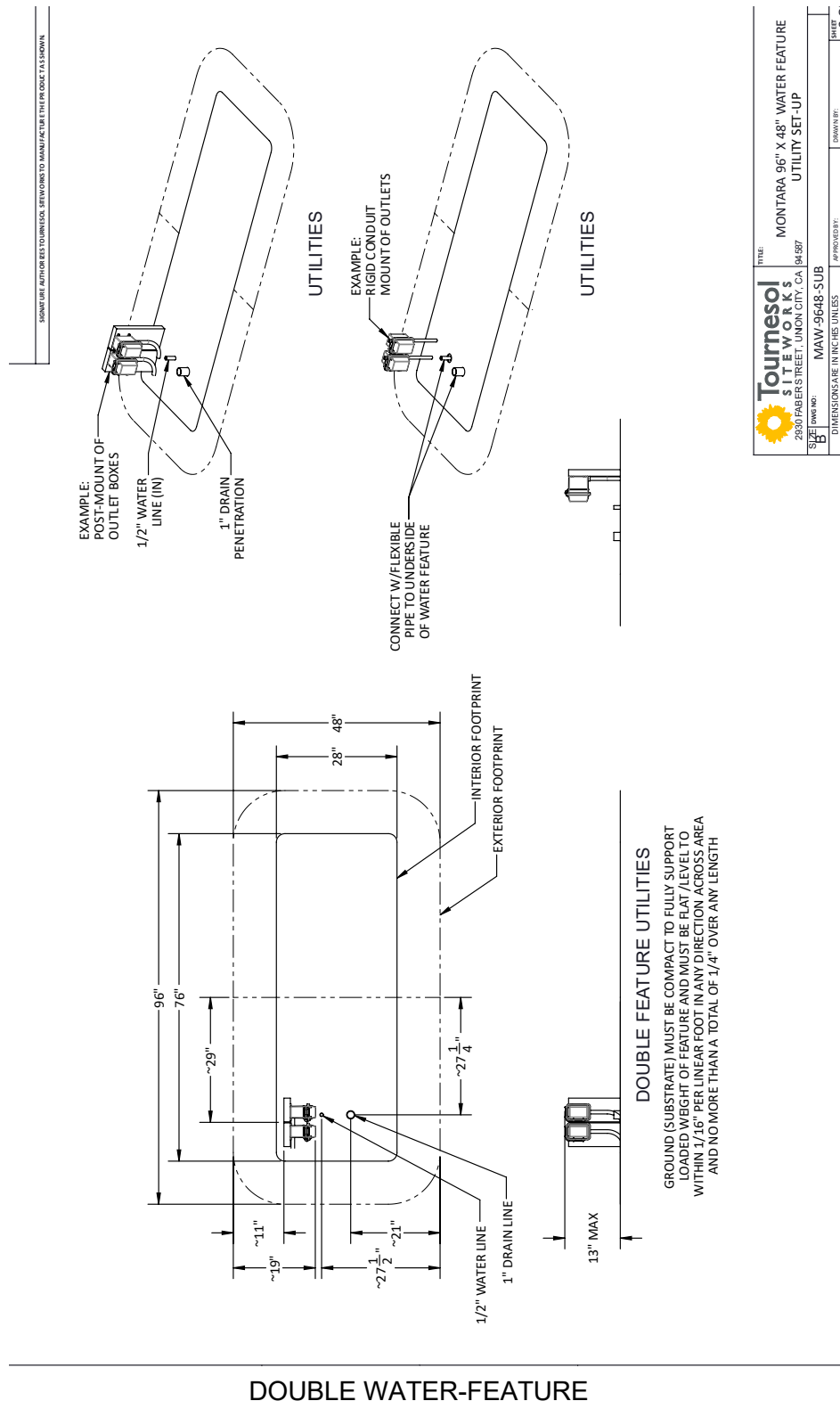
Utility Drawings	Pg. 2
Plumbing Components	
Water Inlet Assembly	Pg. 5
Drain Assembly	Pg. 6
Manifolds	Pg. 7
Pumps	Pg. 8
Electrical Components	
Ring Light/Jet	Pg. 9
Transformer	Pg. 9
Light Splitter	Pg. 9
Additional Information	Pg. 10

You can find information about caring for Tournesol products and materials by visiting:
<https://tournesol.com/asset/64a79c5f5c2eb/Care%20Maintenance%20Warranty.pdf>
where you can download Care & Maintenance documents.

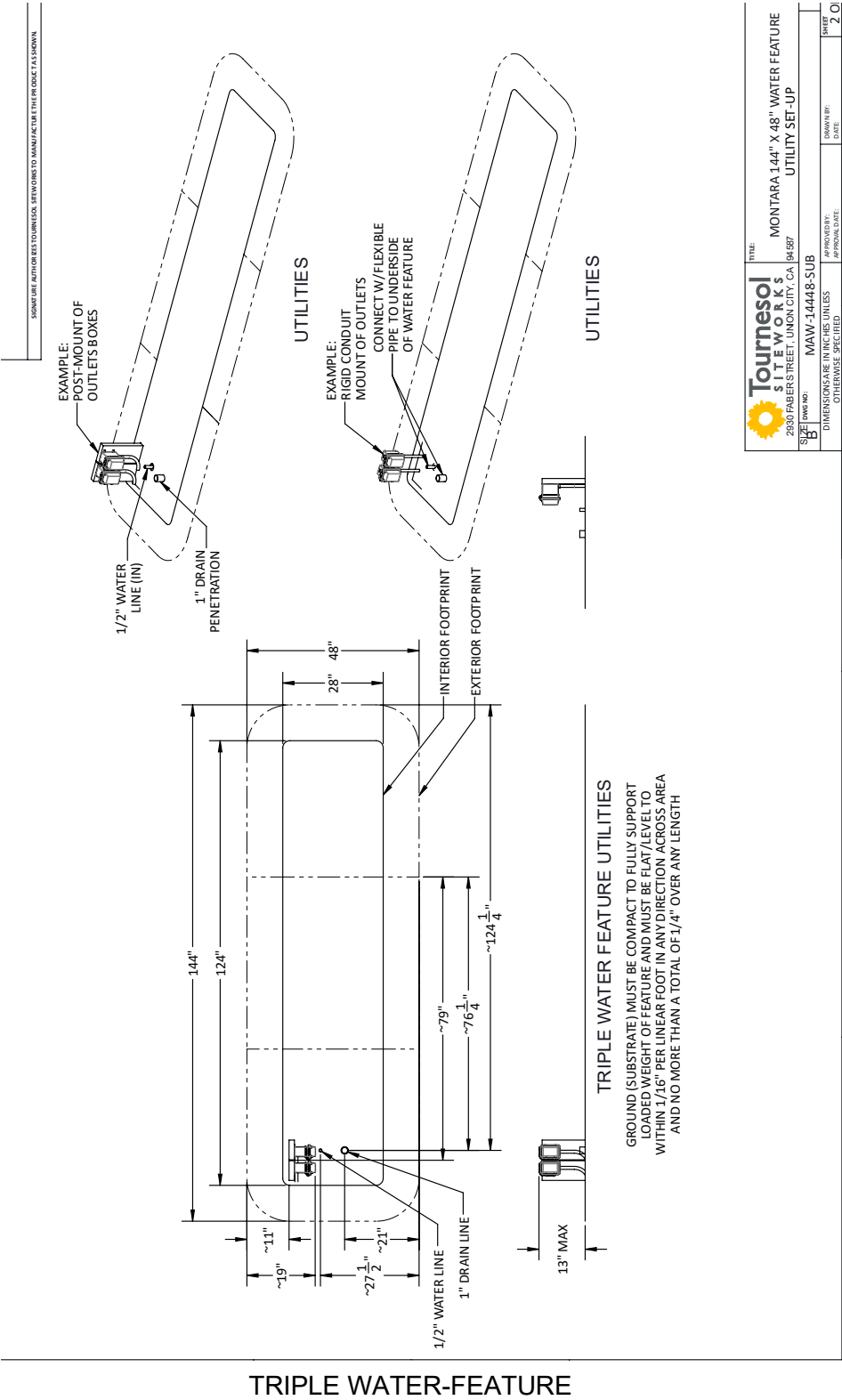
MONTARA WATER FEATURE:
Installation Instruction Appendix
UTILITY DRAWINGS



UTILITY DRAWINGS



MONTARA WATER FEATURE:
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UTILITY DRAWINGS

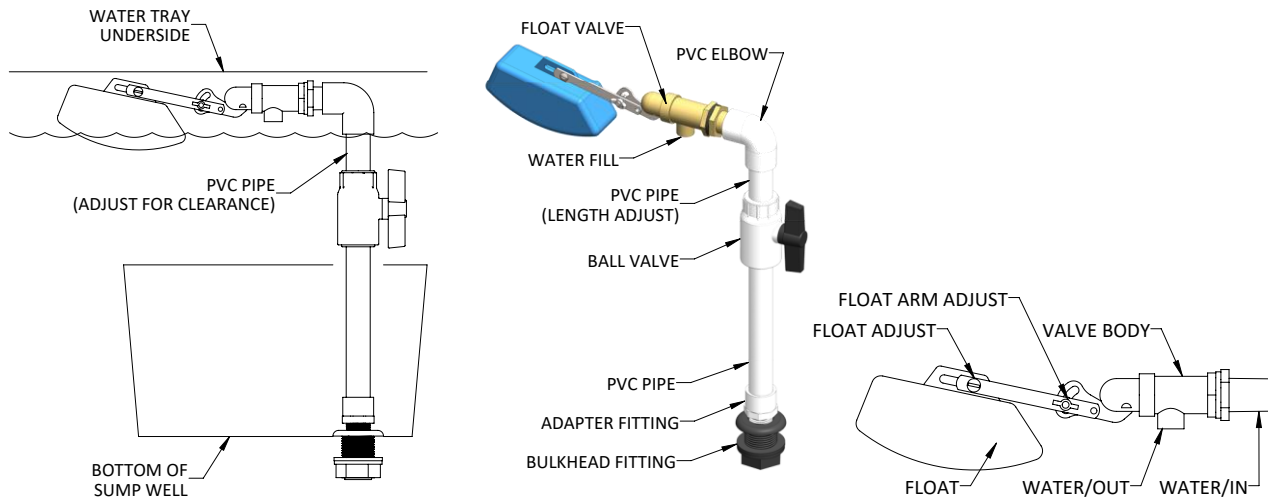


Tournesol SITEWORKS		MONTARA 144" X 48" WATER FEATURE	
2930 FABER STREET, UNION CITY, CA 94587		UTILITY SET-UP	
SIZE	OWNER NO:	APPROVED BY:	SHEET
B	MAW-14448-SUB	DATE:	20
DIMENSIONS ARE IN INCHES UNLESS OTHERWISE SPECIFIED			

PLUMBING COMPONENTS

WATER INLET ASSEMBLY

The water inlet assembly is a combination of Schedule 40 PVC pipe/fittings, a PVC bulkhead fitting (attached to basin), and a brass and plastic float valve. The ball valve controls the water flow, while the float valve helps maintain the water level in the basin reservoir. Water enters the reservoir through the float valves water fill/out port. The fill valve is the same for each water feature but may require slight adjustments based on the installation. For cutting the PVC pipe (adjustment length), refer to the installation manual prior to final “glued” assembly.



Components and Assembly – Use the appropriate primer, adhesive and plumber’s tape for assembly.

½” Schedule 40 PVC SOC x MIPT Adapter

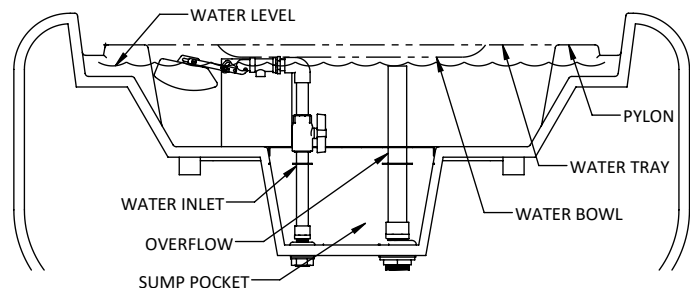
½” MIPT Brass-Body Plastic-Float Valve

½” Schedule 40 PVC Rigid Pipe (cut to two sections)

½” SOC x SOC Ball Valve

½” Schedule 40 PVC 90 SOC x FIPT Elbow

- 1) Cut a section of ½” pipe approximately 7”-8” inches long. Attach (glue) the pipe to the adapter.
- 2) Attach (glue) the ball valve to the top of the pipe. Allow all glue joints to dry completely.
- 3) Cut a section of pipe approximately 4 inches long and insert into ball valve. The length may vary depending on the water level determined by the float valve. It’s best to leave this section longer until you can test fit the assembly and adjust the height. *Do not yet glue this section...only dry fit for now.*
- 4) Temporarily screw the assembly into the bulkhead fitting installed in the sump pocket.
- 5) Mark and cut the top pipe as noted below in the “Pro Tip”.
- 6) With the inlet pipe cut, use plumbers tape to seal the threads of the adapter and screw the assembly back into the bulkhead fitting.
- 7) Use plumber’s tape to seal the threads of the float valve and attach it to the elbow.
- 8) Dry fit (do not glue) the elbow to the top section of the pipe.
- 7) Ensure the position of the float is away from objects that might keep it from operating properly. Adjust the float valve to achieve the desired water level.



Installation Instruction Appendix

PLUMBING COMPONENTS

DRAIN ASSEMBLY

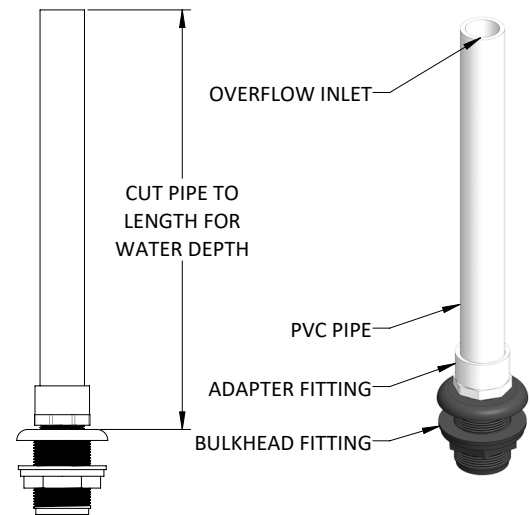
The drain assembly is the same for all water features and consists of Schedule 40 PVC pipe/fitting and an ABS bulkhead fitting (attached to basin). It serves two functions: providing an overflow drain to maintain the maximum water level and acting as the main drain for maintenance and winterizing.

Components and Assembly - Use appropriate primer, adhesive and plumber's tape for assembly.

1" Schedule 40 PVC SOC x MIPT Adapter

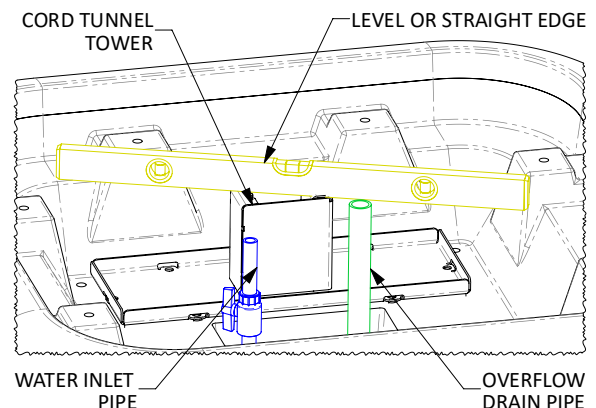
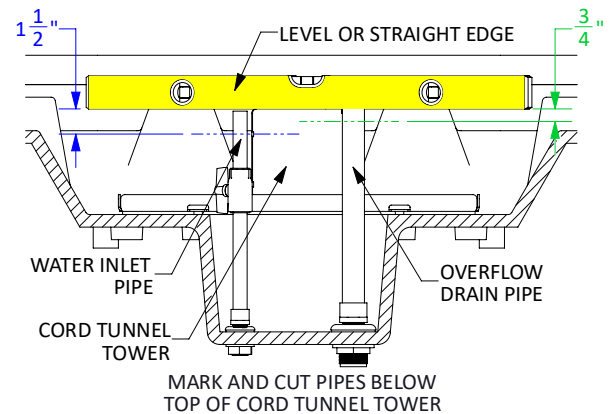
1" Schedule 40 PVC Rigid Pipe

- 1) Cut a section of pipe at least 12 inches long.
- 2) Apply glue to the pipe and attach it to the adapter. Let the glue dry.
- 3) Dry fit the assembly into the bulkhead fitting within the basin.
- 4) Measure, mark, then remove and cut the pipe to the proper level.
- 3) Apply plumbers tape to the adapter threads.
- 4) Screw the assembly into the bulkhead fitting in the basin.



PRO TIP

Note: The pipe length can be adjusted to set the water inlet and overflow level before filling the basin with water. With the cord tunnel temporarily resting in its final location, place a level across the top of the tallest part. Shift the level to where it is next to the pipe. Mark the pipe at the bottom of the level and then place another mark $\frac{3}{4}$ " down from the first mark for the overflow pipe and $1\frac{1}{2}$ " down for the water inlet pipe. Cut the pipes to the second marks. The top of the overflow pipe should now be approximately $\frac{3}{4}$ " below the top of the cord tunnel. The water fill assembly should be in a position to then adjust the float for a proper water level (approximately $\frac{1}{2}$ " below the top of the overflow pipe). Reference the installation manual instructions for marking the appropriate pipe length before cutting.

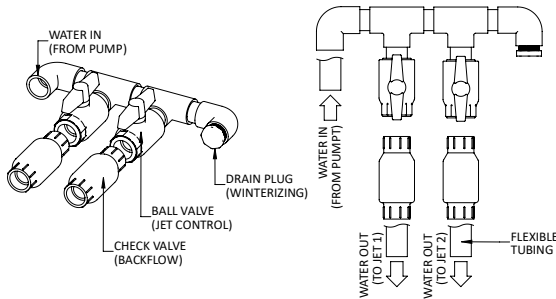


MONTARA WATER FEATURE: Installation Instruction Appendix

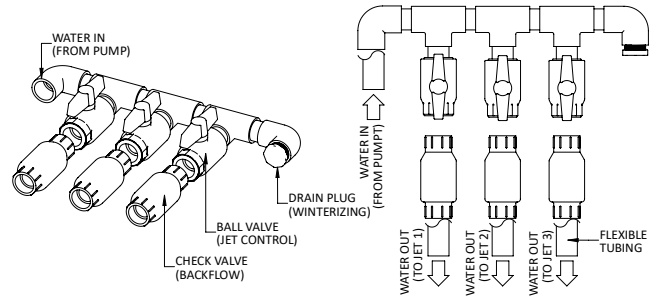
PLUMBING COMPONENTS

MANIFOLDS (multi-unit features)

For water features with multiple jets, a manifold is used to evenly distribute and adjust water flow to each jet, ensuring balanced water flow across the feature. The manifolds consist of Schedule 40 PVC pipe/fittings. Flexible pipe or non-kink tubing connects the pump to the manifold and then to each light/jet in the feature.



DOUBLE WATER-FEATURE MANIFOLD



TRIPLE WATER-FEATURE MANIFOLD

Components and Assembly - Use appropriate primer, adhesive and plumber's tape for assembly.

- 3/4" Sched 40 PVC SOC x SOC Elbow
- 3/4" Sched 40 PVC Rigid Pipe
- 3/4" SOC x SOC Ball Valve (Qty. 2 or 3)
- 3/4" SOC x SOC Check Valve (Qty. 2 or 3)

- 3/4" Sched 40 PVC SOC x FIPT Elbow
- 3/4" Sched 40 PVC SOC Tee (Qty. 2 or 3)
- 3/4" Sched 40 PVC MIPT Plug

- 1) Cut sections of rigid pipe into 2" lengths. Use eight pieces for a double water feature and ten pieces for a triple water feature. Dry-fit all the pieces into the correct configuration. Once satisfied, disassemble the parts, then reassemble and glue the joints. Allow the glue joints to properly dry.
- 2) Insert one piece of pipe into each SOC x SOC elbow.
- 3) Insert one piece of pipe into both ends of the ball valves.
- 4) Insert the SOC Tee to the pipe from each elbow and a piece of pipe between each tee.
- 5) Insert one end of the ball valves to the Tee.
- 6) Insert one check valve (verify flow direction) to each ball valve.
- 7) Screw the MIPT plug into SOC/FIPT elbow. Use plumber's tape on threads.

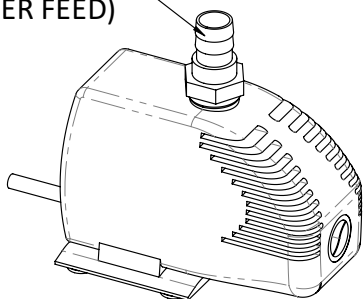
TIP

For better flow, always ensure that the glue joints are completely dry before proceeding to the next step. Be sure to double-check all pipe and fitting connections before installation to prevent leaks.

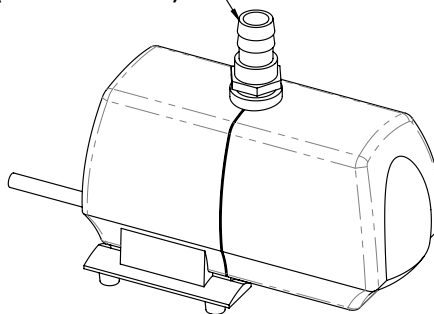
PLUMBING COMPONENTS

PUMP(S)

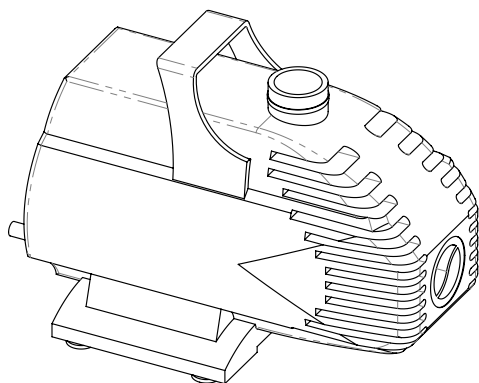
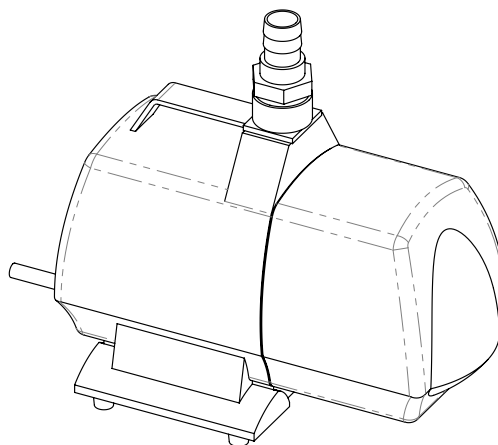
The pumps used in the water features vary in size and flow rate (GPH), depending on the water feature (e.g. single, double, triple). For safety, the transformer should be plugged into an outlet that is fed by an Arc Fault Circuit Interrupter (AFCI) breaker installed by a licensed electrician. For detailed information on each pump, please refer to the pump manual included in the unit. You may also find additional pump information at the end of this appendix.

BARB FITTING
(WATER FEED)

SINGLE JET WATER FEATURE PUMP

BARB FITTING
(WATER FEED)

SINGLE JET WATER FEATURE PUMP

DOUBLE/TRIPLE JET
WATER FEATURE PUMPDOUBLE/TRIPLE JET
WATER FEATURE PUMP**NOTE**

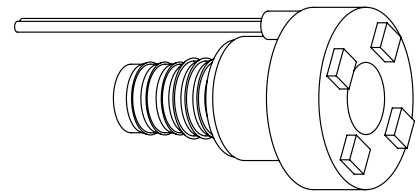
Refer to the pump manual shipped with the pump itself however, the pump manual(s) are also available at the end of this appendix.

Installation Instruction Appendix

ELECTRICAL COMPONENTS

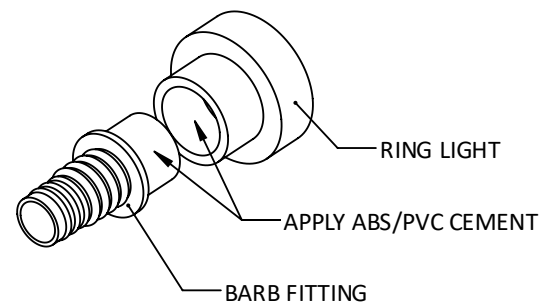
RING LIGHT/JET

An epoxy-encased fountain light is used to illuminate the water. The light features a PVC body with a bottom-mounted cord and barbed fitting. To connect the light, use kink-free flexible pipe or tubing, which should be attached either to the multi-jet manifold or directly to the pump (for a single jet setup).



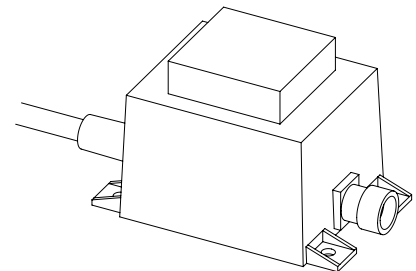
(not to scale)

The ring light consists of two parts that are press-fit into one another. If the barb fitting comes loose from the ring light, it can be permanently glued together with a light application of ABS/PVC cement. Allow the cement to set prior to installation of the light into the water feature.



LIGHT TRANSFORMER

The lighting operates on low voltage, making it safe for use in water features. For safety, the transformer should be plugged into an outlet that is fed by an Arc Fault Circuit Interrupter (AFCI) breaker installed by a licensed electrician. The wattage of the transformer will vary depending on the number of lights or jets (single, double, or triple).

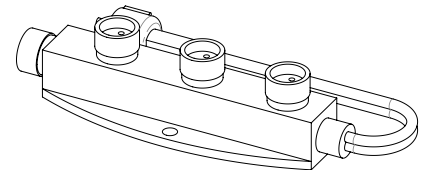


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MULTI-LIGHT SPLITTER

The multi-way quick-connect 2-wire splitter allows for easy connection of multiple ring lights to a single transformer. Gasketed for outdoor use, the quick-connect fittings simplify installation by eliminating the need to manually splice and connect cables.

For more information, please refer to the manual included with each electrical component. Additional details can also be found at the end of this appendix.



(not to scale)

NOTE

Refer to the manual shipped with each electrical component. Some details are also available at the end of this appendix.

Installation Instruction Appendix

ADDITIONAL INFORMATION

Sikaflex 1A – A high-performance, moisture-cured, single-component, polyurethane-based, non-sag elastomeric joint sealant/adhesive with fast tack-free and final cure times. Cures to a tough, durable, flexible consistency with exceptional cut and tear-resistance while also being able to be cut (putty knife or utility knife) for removal.

Silicone Caulk – A general purpose, one-component, non-sag, elastomeric, RTV acetoxycure clear silicone sealant with good adhesion for general sealing.

Filter Media – A unique random weave polyester filter media to keep larger particles from reaching the pump while allowing for good flow. Easy to cut to custom sizes or shapes.

Flexible Pipe/Tubing – A smooth, flexible PVC pipe designed to glue into Schedule 40 fittings using recommended cements and primers. A working pressure of 100 psi, nominal bend radius of 2", burst pressure of 400 psi and temperature range from -10 to 130 degrees F.

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(to be replaced with pages from component manuals, where available)