



Installation Instructions



A&A Manufacturing

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Prior to Installation



CAUTION

The SplashDown must be installed by a licensed or certified plumber or a qualified pool professional adhering to all applicable local codes and ordinances.

IMPORTANT

The installer must read this manual completely before attempting installation. Consult A&A Manufacturing with any question regarding this product. This guide must be left with the pool owner or operator.

NOTE:

This is an aesthetic water feature and it is recommended that clear PVC to PVC cement be used when gluing the components together. Using the Splashdown in a manner outside of its intended purpose may void the warranty.

Included

- a. SplashDown housing
- b. Floor fitting
- c. In-floor housing
- d. Nozzle

SD22 tubing set:

- e. Tube (w/ factory glued inlet fitting)

SD44 tubing set:

- f. Primary tube (w/ factory glued inlet fitting)
- g. Nozzle collar
- h. Stop ring
- i. Secondary tube

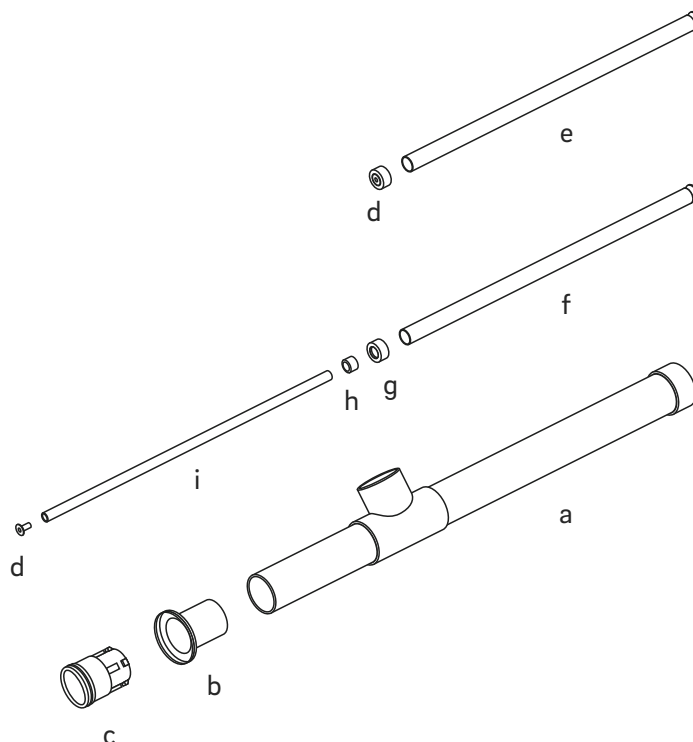


Figure 1



Locating the SplashDown

Dimensions

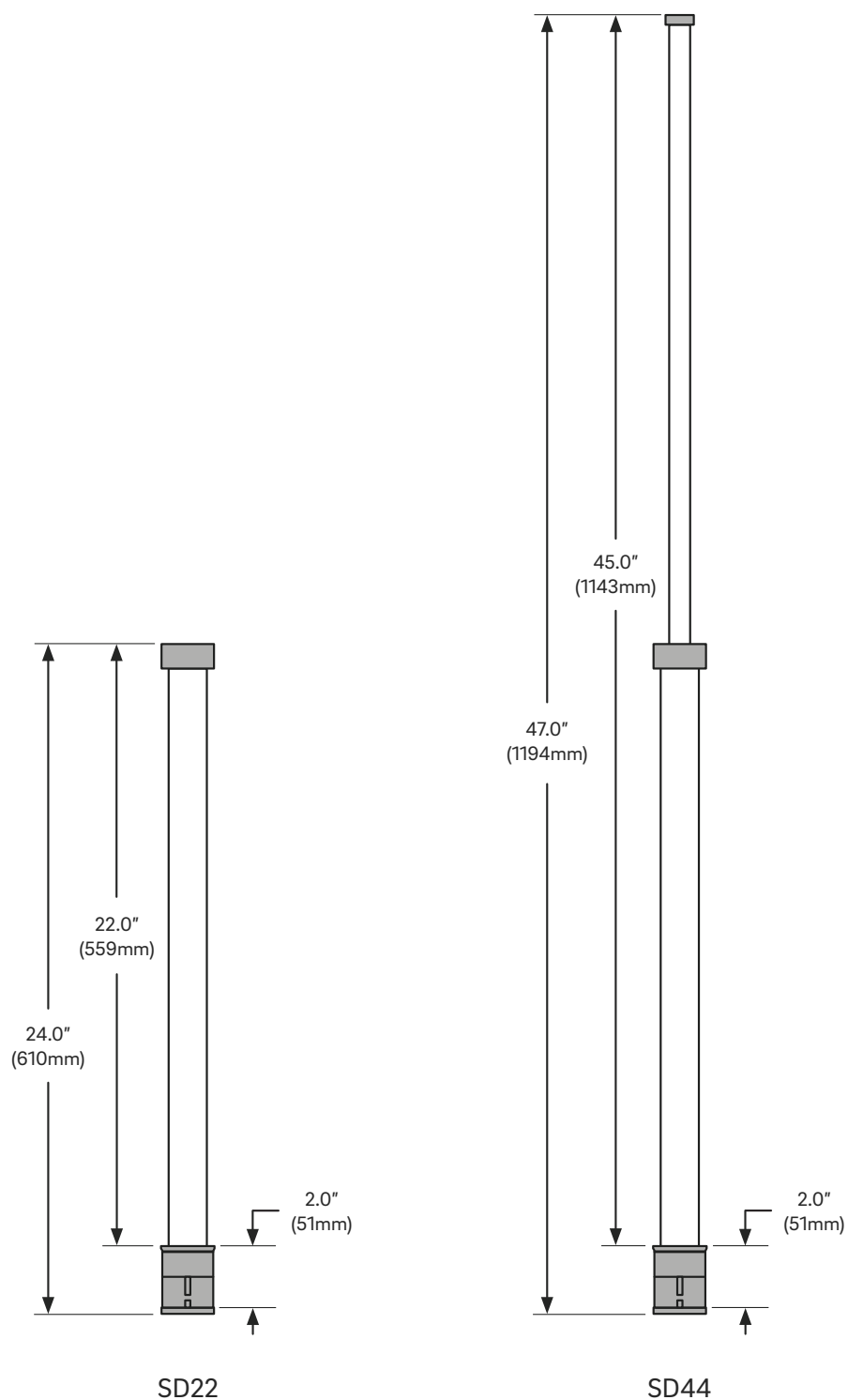


Figure 2

IMPORTANT

The SplashDown is designed for vertical movement only and must be installed in a surface that is parallel to the water line. DO NOT install them in the pool floor, wall radius or in side-walls.

Determine the Size of the Fountain Base

The following are provided so that you can determine how close to install a SplashDown from a pool edge. The higher the desired peak of the fountain, the wider the base and the further the fountain must be installed from the pool edge.

1. First, you must determine the desired fountain height you are trying to achieve.
2. Using the chart, you will find the minimum distance the fountainhead must be installed from the pool edge, based on the desired height. Any closer and the water from the fountain will fall onto the deck of the pool.
3. Minimum water depth is 6 inches maximum water depth for the SD22 is 24 inches and for the SD44 the maximum water depth is 48 inches.
4. The fountain housing must be plumbed and set at a perfect 90° angle so that the fountain comes up in a perfectly vertical column. Failure to adhere to this angle requirement will produce undesired effects.

Column

Height	A	B
2' - 0"	3' - 0"	6' - 0"
2' - 6"	3' - 9"	7' - 6"
3' - 0"	4' - 6"	9' - 0"
3' - 6"	5' - 3"	10' - 6"
4' - 0"	6' - 0"	12' - 0"

Crystal Spray

Height	A	B
40"	27"	54"

Water Lily

Height	A	B
20"	12"	24"

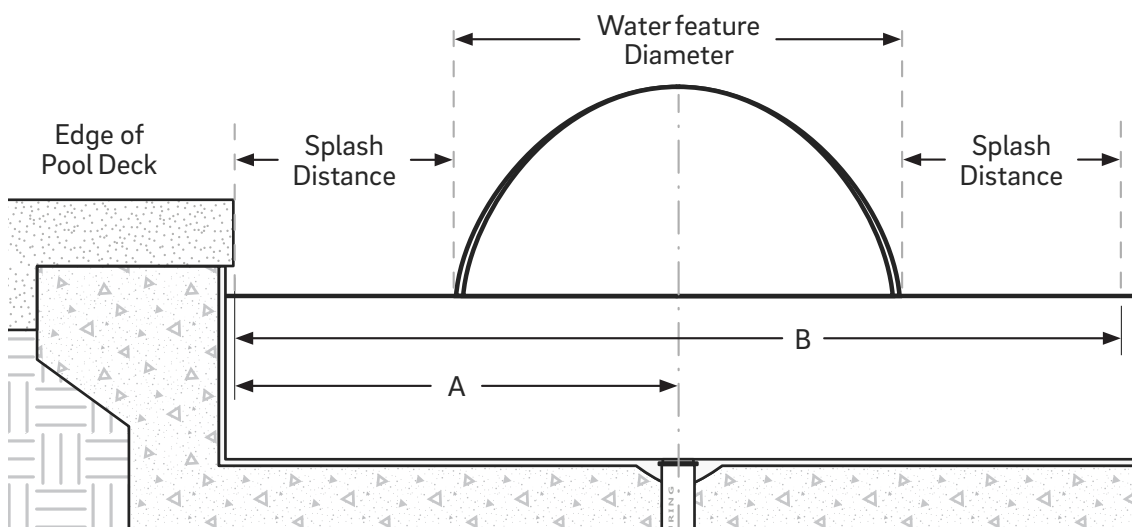


Figure 3



Installation

IMPORTANT

Each SplashDown fountainhead requires a separate 1.5" line. Additionally, it is imperative that each line receives its own a gate valve which will ensure proper flow can be independently adjusted for each line.

NOTE:

Do not place any SplashDown fountainhead closer than 6" to the edge of a bench or shelf.

Pre-surface Installation

1. Determine the location of each SplashDown and dig the necessary trenches to accommodate the 1.5" feed lines to the fountainheads. Dig a vertical hole at least 25" to 26" deeper than the trench to accommodate the 24" lower fitting (Figure 4).
2. The trenches must be deep enough to allow the Tee in the fountainhead assembly to be at least 4" below the finished concrete (gunite or shotcrete) surface.
3. After the fountainhead has been glued in place, backfill in the hole with dirt around the lower fitting and feed lines making sure the unit remains plumb.
4. Do Not remove the plaster shield from the floor fitting housing until the finished surface has been applied to the pool.
5. Wait until after the pool is filled before sizing and cutting the fountainhead tube.

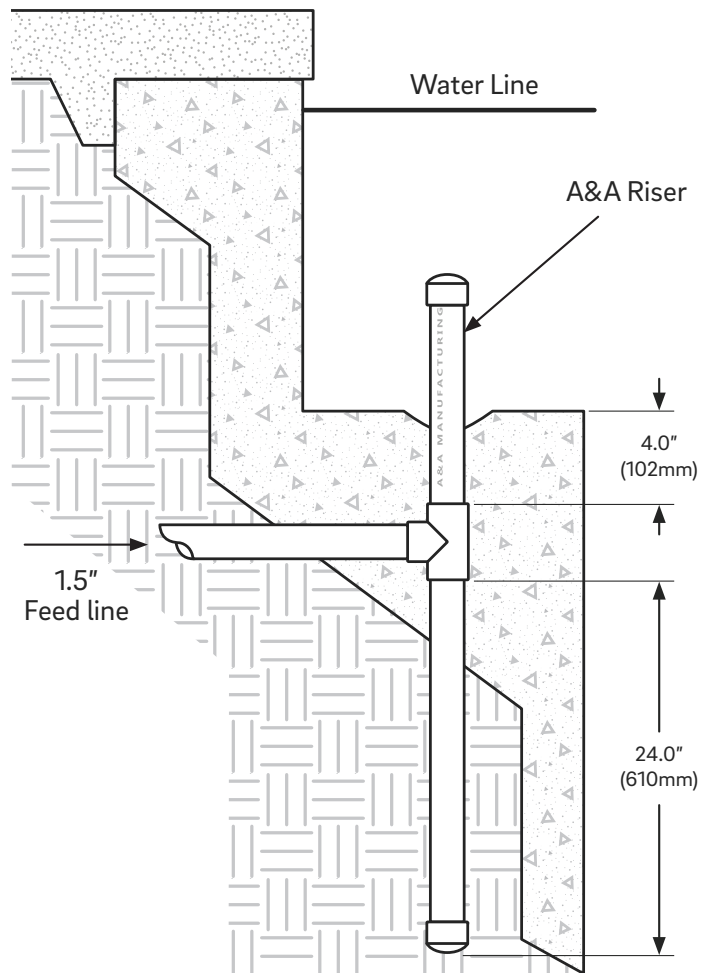


Figure 4

NOTE:

Use only ABS to PVC cement when gluing the floor fitting to A&A Manufacturing's PVC riser.

Never apply primer directly to the floor fitting, use only glue. The heat produced may distort the plastic.

1. Cut the A&A riser flush with the concrete surface. This should be done at the same time the cleaning heads are being set.
2. Apply both primer and glue on the inside of the A&A Manufacturing's PVC riser stub.
3. Apply ONLY glue to the floor fitting. DO NOT REMOVE the plaster shield from the fitting.
4. Insert the prepared fitting inside of the riser stub, making sure that the depth will allow the floor fitting to remain flush with the floor once the desired surface material has been added.

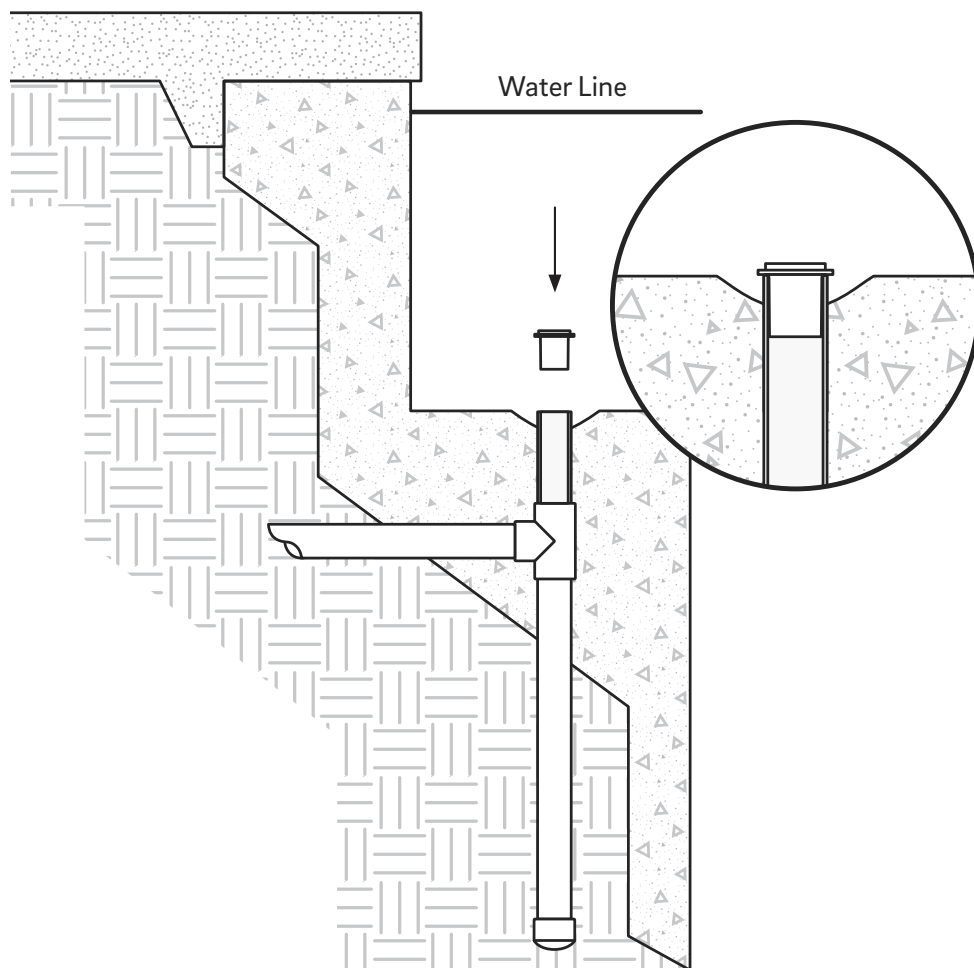


Figure 5

IMPORTANT

Do not use a 2-Way or 3-Way valve as a substitute for a gate valve to feed the fountains. These valves allow rapid opening of the feed line making it possible to damage the fountainheads, voiding the warranty.

If more than one fountain is installed, a separate brass gate valve must be installed on each line to allow for individual flow adjustment. This will ensure the desired fountain height and effect of each.

NOTE:

The feed line to the SplashDown fountains interrupts the feed line to the wall returns. **Do not** interrupt the line to the cleaning system.

In-floor Cleaning Layout

It is necessary for a shut-off valve to be installed between the fountain feed lines and the wall returns so that fountain water heights may be individually adjusted (Figure 6).

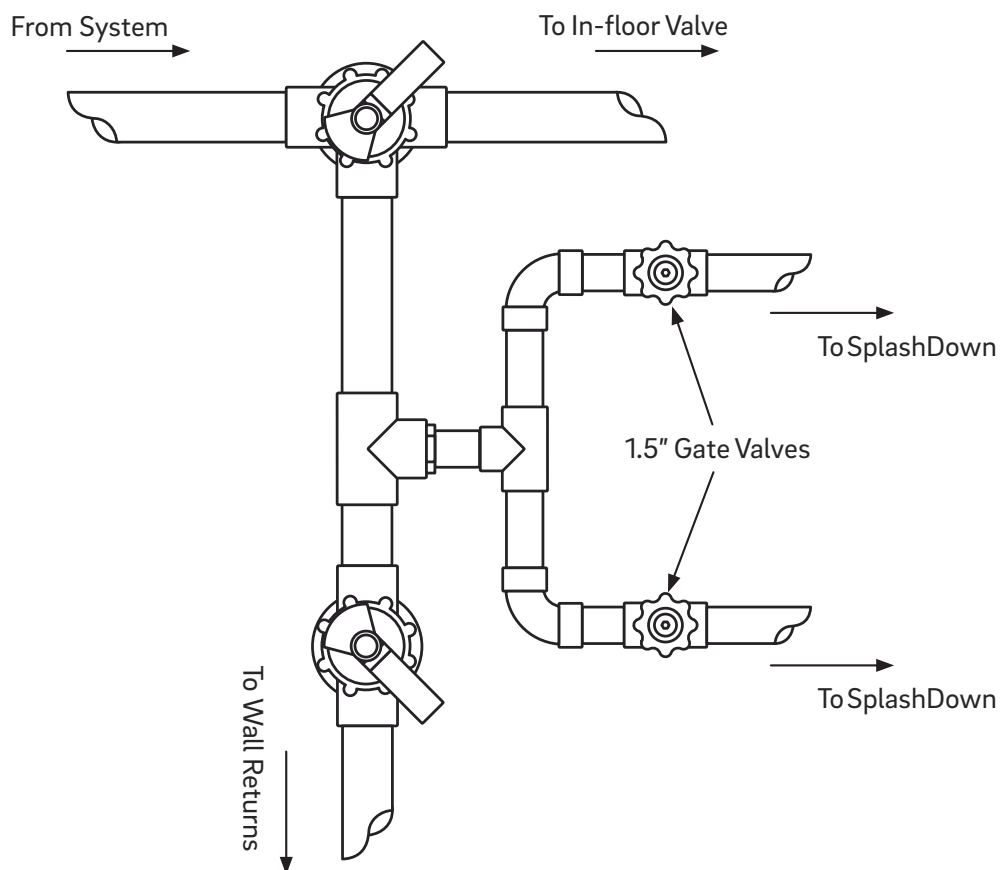


Figure 6

Wall Returns Only Layout

Note that the feed line interrupts the return line ahead of the ball valve or 2-way valve feeding the wall returns. (Figure 7)

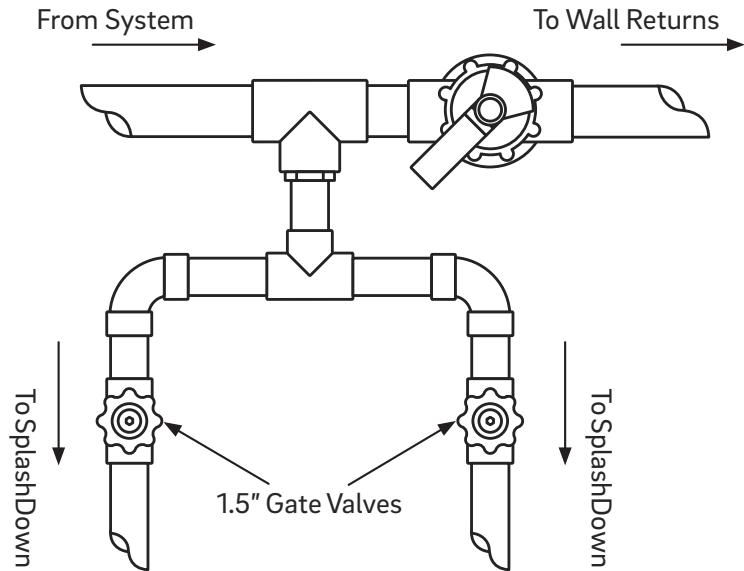


Figure 7

Separate Pump Layout

If a separate pump is used to feed the Splash Down Fountain or Fountains, it will be necessary to run a line to wall returns as well (Figure 8).

Since each fountainhead will use approximately 8 gpm, it is necessary to have a means for discharging any excess water from the booster pump.

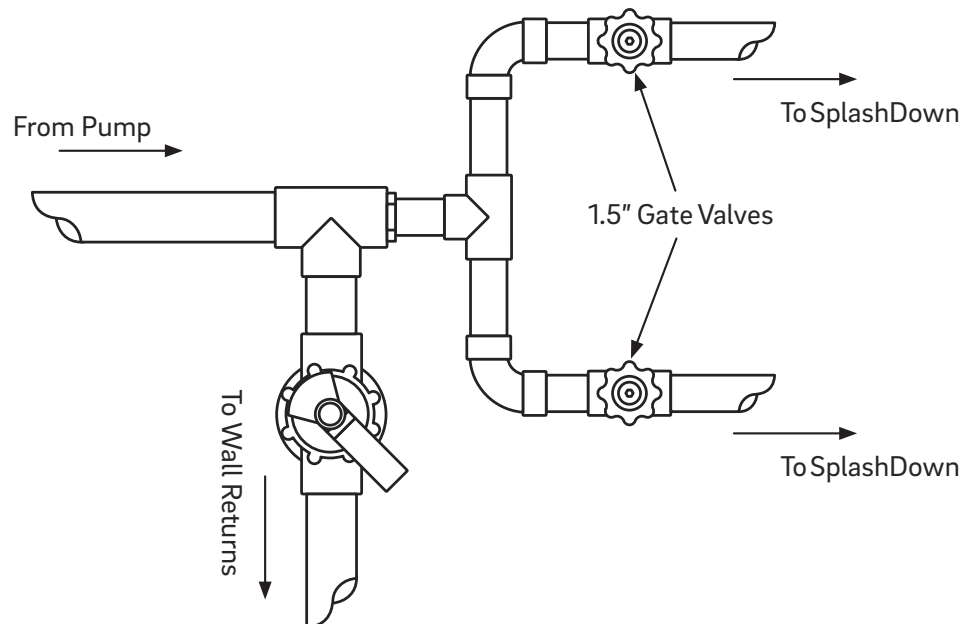


Figure 8

IMPORTANT

This product is an aesthetic feature, use **ONLY** clear PVC to PVC cement when gluing the components together.

Before gluing a nozzle to the end of the sized fountainhead tube, insert the cut end of the tube through the bottom of the fountainhead collar.

NOTE:

Due to the delicate water pattern the Water Lily head forms, it is not recommended for windy locations.

Only the SD22 (22" SplashDown) has three nozzle options. The SD44 (44" SplashDown) is only available with the Column nozzle option.

Nozzle Height Diagram

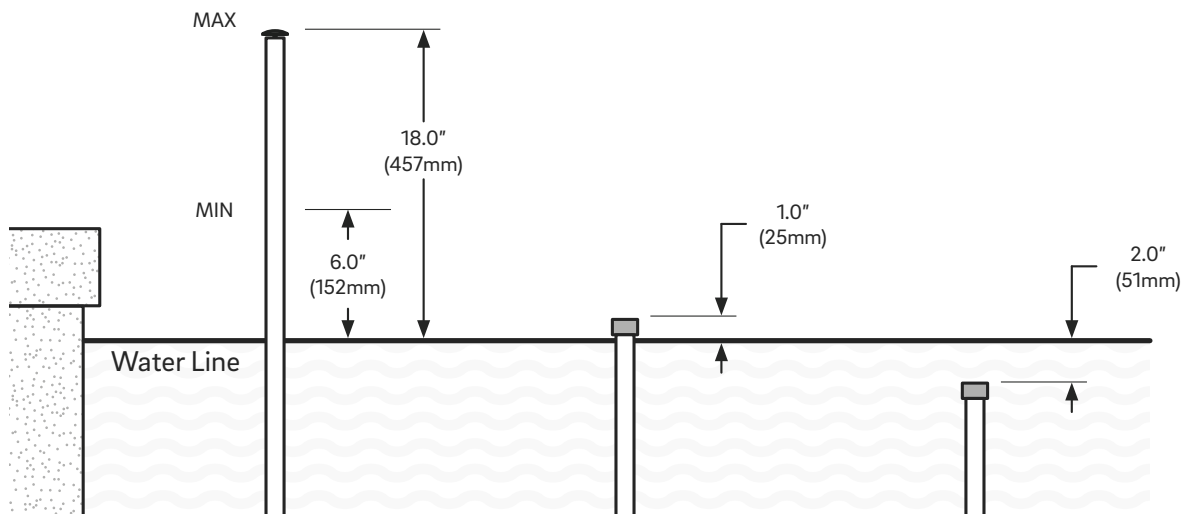


Figure 9

Water Lilly

The height of the Water Lilly nozzle must extend to a minimum height of 6" and not exceed 18" above the water line.
(SD22 only)

Crystal Spray

The height of the Crystal Spray nozzle must extend to a height of 1" above the water line.
(SD22 only)

Column

The height of the Column nozzle must extend to a height of 2" below the water line.
(SD22 & SD44)

Nozzle Identification

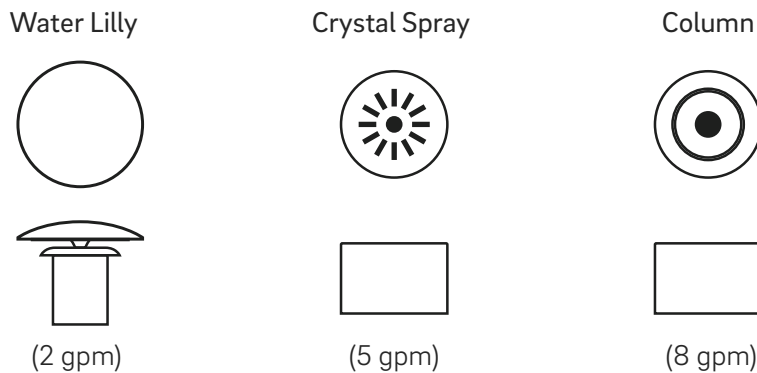


Figure 10

The displayed flow rates correspond to maximum height listed on the preceding table (page 3) and are for approximation purposes only, exact flow rates may vary based on user preference.

Post-surface Installation

Before you begin, remove the plaster shield from the floor fitting housing and remove the fountainhead collar from the floor-fitting, using A&A Manufacturing's Style II removal tool. Once the pool is filled, measure the exact depth of the water at the fountainhead location.

SD22 (22" Splashdown)

1. Remove the fountainhead nozzle from the tube (Figure 11).
2. The tube is stopped from rising at the bottom of the floor-fitting, which absorbs 2" from the total 24" tube length. This leaves a fully extended tube length of only 22".

Example: If the Column nozzle is being used and the water depth is 18", cut the tube 18" long and the nozzle will automatically be 2" below the water surface.

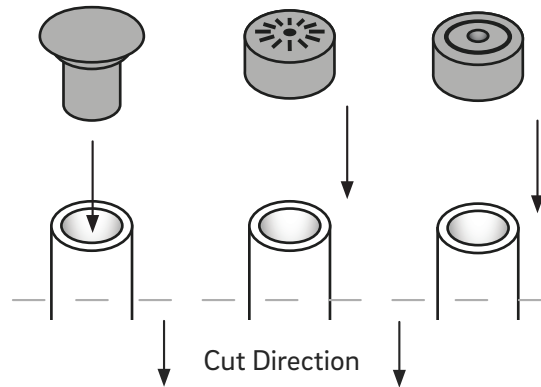


Figure 11

3. Using the diagram (Figure 9), cut the tube so that it will rise to the proper height from the water line (Figure 10) based on the nozzle type being used. All adjustment cuts need to be made at the end where the nozzle will attach.
4. Once the tube has been cut to the correct length and it is inside the In-floor housing, glue the nozzle onto the tube. Remember, use only clear PVC to PVC cement.

SD44 (44" Splashdown)

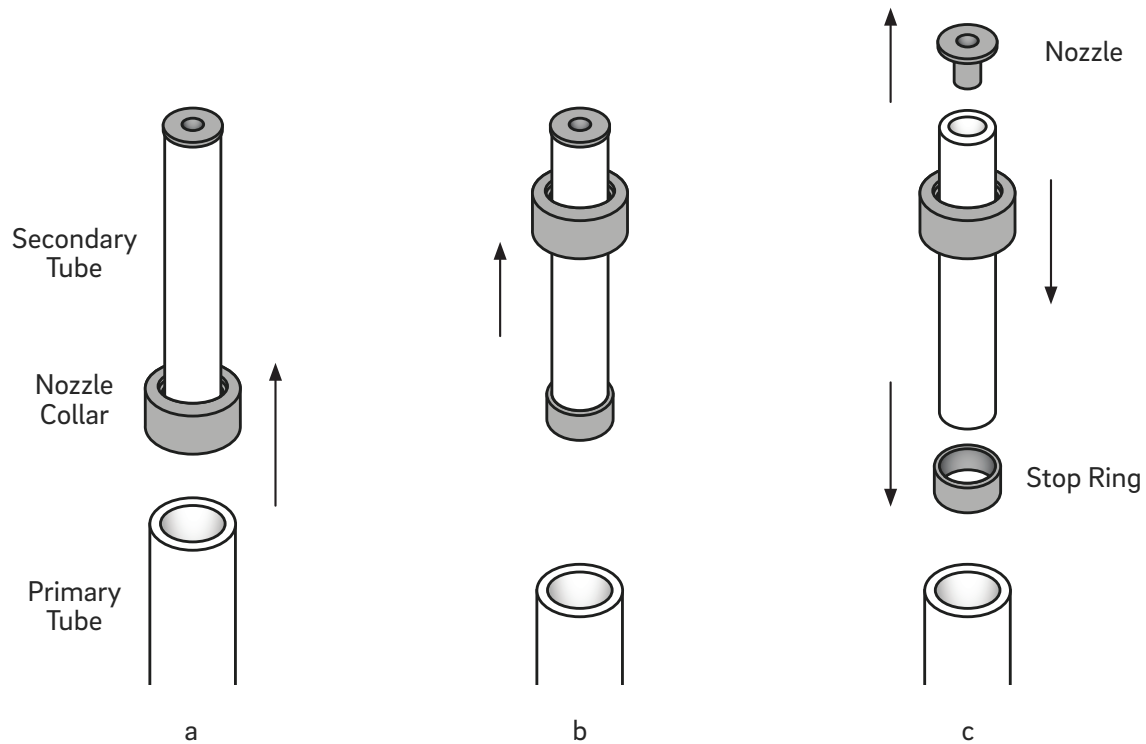


Figure 12

1. Remove the Nozzle Collar from the Primary Tube (Figure 12a) and lift out the Secondary Tube.
2. Remove the Stop Ring and the nozzle from the Secondary Tube (Figure 12c).
3. The tubes (Primary & Secondary) are stopped from rising at the bottom of the floor-fitting, which absorbs 2" from the combined 47" length. This leaves a fully extended, combined tube length of only 45".

Example: If the Column nozzle is being used and the water depth is 36", the Secondary Tube must be cut to remove 11" ($47" - 36" = 11"$), which will leave the nozzle 2" below the water surface. Collar onto the top of the Primary Tube.

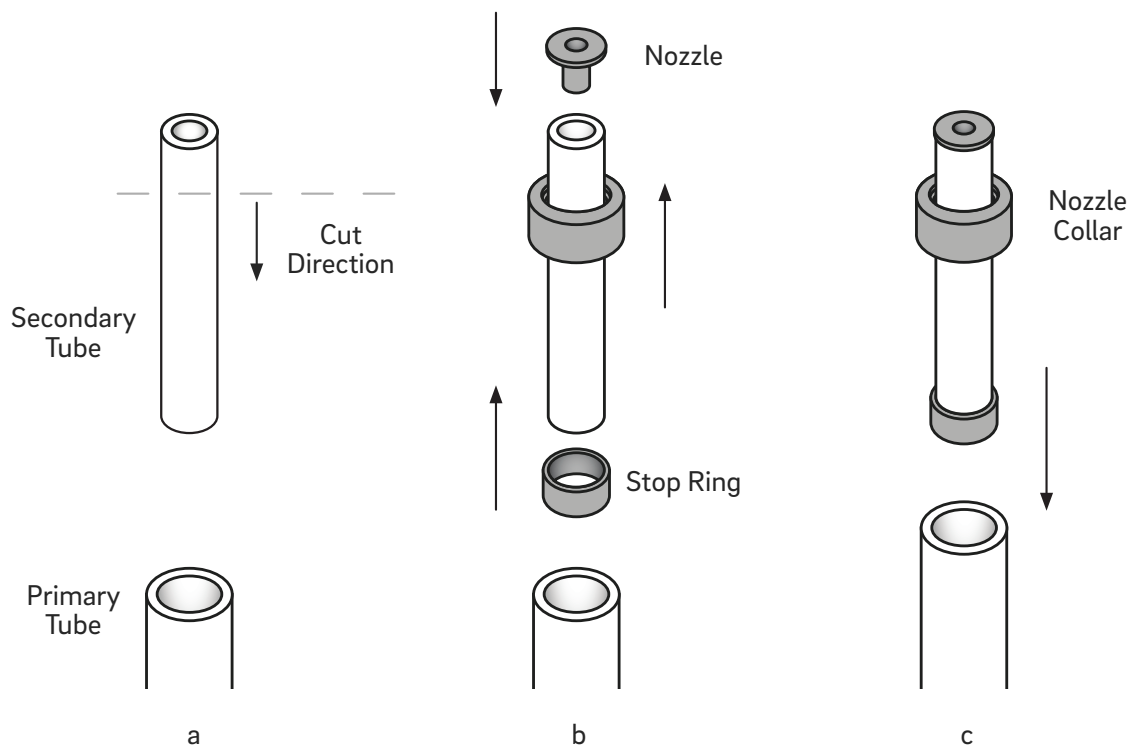


Figure 13

3. Using the diagram (Figure 9), cut the Secondary Tube so that it will rise 2" below the water line. All adjustment cuts need to be made at the end where the nozzle will attach (Figure 13a).
4. When all the adjustment cuts have been made, reinsert the Secondary Tube through the Nozzle Collar and glue the Stop Ring in place, then glue the nozzle into the opposite end (Figure 13b).
5. Now, insert the Primary Tube through the bottom of the Internal Fitting. Once the glue has set on the nozzle and Stop Ring, insert the bottom of Secondary Tube into the top of the Primary Tube (Figure 13c) with the Nozzle side up.
6. Now slide the Nozzle Collar down and glue it onto the top of the Primary Tube.

Once the height adjustment procedure for the SD22 or SD44 have been completed, reinstall the assembly into the SplashDown housing and lock the collar into the floor-fitting, using the Style II removal tool.