



# Installation Instructions

## Splashdown™ Fountain

The Splash Down telescoping fountainhead comes in two sizes: the **SD22** for use in water depths from 6 to 24 inches and the **SD44** for use in water depths of 25 to 48 inches. The preplaster installation instructions are identical for both sizes. See the **POST-PLASTER INSTRUCTIONS** for both of the telescoping fountainheads as well as for the **WATER LILY** and the **CRYSTAL SPRAY**.

### PRE-PLASTER INSTRUCTIONS

1. Determine the location of each Splash Down fountainhead and dig the necessary trenches to accommodate the 1½" feed lines to the fountainheads. Dig a **vertical** hole at least 25" to 26" deeper than the trench to accommodate the 24" long lower fitting. (See Figure 1) **NOTE:** Do not place a fountainhead any closer than 6" to the edge of a bench or shelf.
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. Each Splash Down fountainhead must be fed with a separate 1½" line and 1" brass gate valve. This is imperative to assure the proper adjustment of each individual fountainhead.
4. After the fountainhead has been glued in place, fill the dirt in around the lower fitting and feed lines making sure the unit remains plumb.
5. Just before installing the finished surface to the pool, cut the A&A risers flush with the concrete surface. This should be done at the same time the cleaning heads are set.
6. Using the same color floor fitting housing as used in the floor cleaning system, glue the fittings in place. (See Figure 2)
7. Do Not remove the plaster shield from the floor fitting housing until the finished surface has been applied to the pool. The fountainhead tube must be sized and cut after the pool is filled.

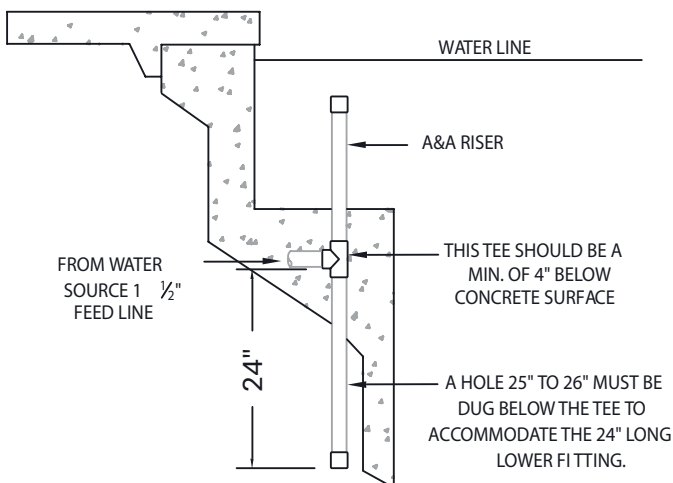


Figure 1

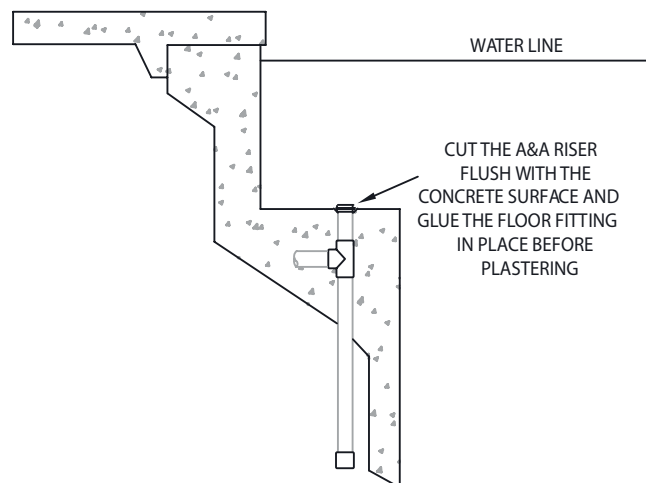
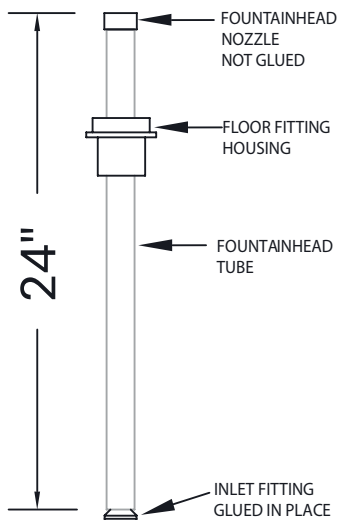


Figure 2

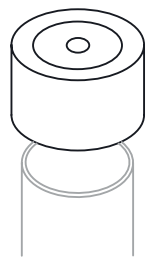
# POST-PLASTER INSTRUCTIONS

## SD22 Instructions

1. Remove the plaster shield from the floor fitting housing. After the pool is filled, measure the exact depth of the water at the fountainhead location.
2. With an A&A Installation tool (with 3 prongs), remove the fountainhead collar from the floor fitting housing.
3. Remove the fountainhead nozzle (see Figure 3) from the fountainhead tube and cut the tube to the length required for the nozzle to rise within 2" of the pool water surface. Cut the plain end of the tube opposite the end with the inlet fitting. Note! The SD22 is already sized for a 24" water depth. The fountainhead tube is 24" long, however, the floor fitting is 2" deep and absorbs 2" of the length. If the water depth is 18", cut the tube 18" long and the nozzle will automatically be 2" below the water surface.
4. **IMPORTANT**, before gluing the nozzle to the end of the sized fountainhead tube, insert the cut end of the tube up through the bottom of the fountainhead collar then glue the nozzle in place using clear PVC to PVC cement. (See Figure 4)
5. Reinstall the assembly by installing the collar back into the floor fitting housing.

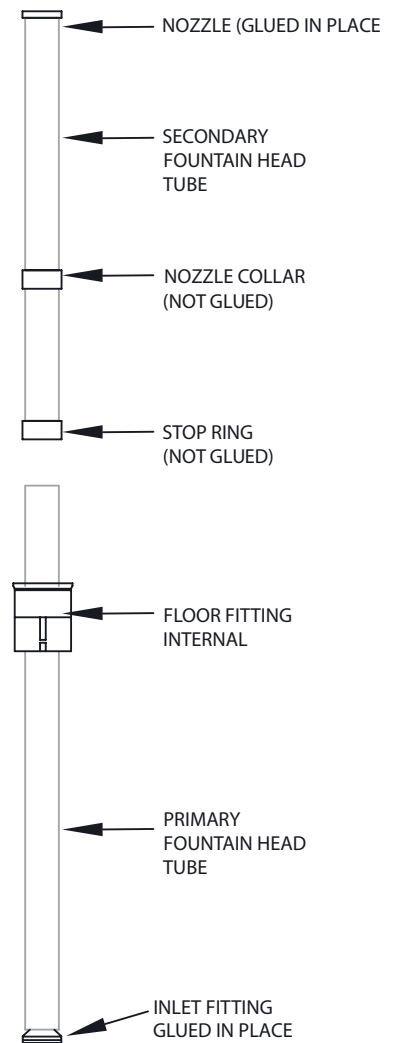


**Figure 3**



AFTER CUTTING THE FOUNTAINHEAD TO LENGTH, GLUE THE FOUNTAINHEAD NOZZLE TO THE SIZED FOUNTAINHEAD TUBE. (USE A CLEAR PVC TO PVC CEMENT)

**Figure 4**



**Figure 5**

## SD44 Instructions

1. Follow steps #1 and #2 above.
2. Remove the Nozzle Collar from the Primary Fountainhead Tube (see Figure 5) and lift the Secondary Tube out of the Primary Tube then remove the Stop Ring.
3. At full extension, the SD44 rises 45" above the Floor Fitting Housing. Therefore, if the water depth is less than 47" the Secondary Tube must be cut off accordingly. **Example:** If the water depth at the Floor Fitting Housing is 36", the Secondary Tube must be cut off 11". ( $47" - 36" = 11"$ )
4. It is **IMPERATIVE** that the following assembly sequence be followed:

## POST- PLASTER INSTRUCTIONS (Cont.)

- A. Insert the Secondary Tube down through the Nozzle Collar and glue the Stop Ring in place with a clear PVC to PVC cement.
- B. Insert the Primary Fountainhead Tube up through the Floor Fitting Internal, then insert the Secondary Tube down into the Primary Tube and glue the Nozzle Collar onto the top of the Primary Tube using clear PVC to PVC cement.
- C. Reinstall the assembly into the Floor Fitting Housing and lock in place with an A&A Installation Tool.

### Water Lily Instructions

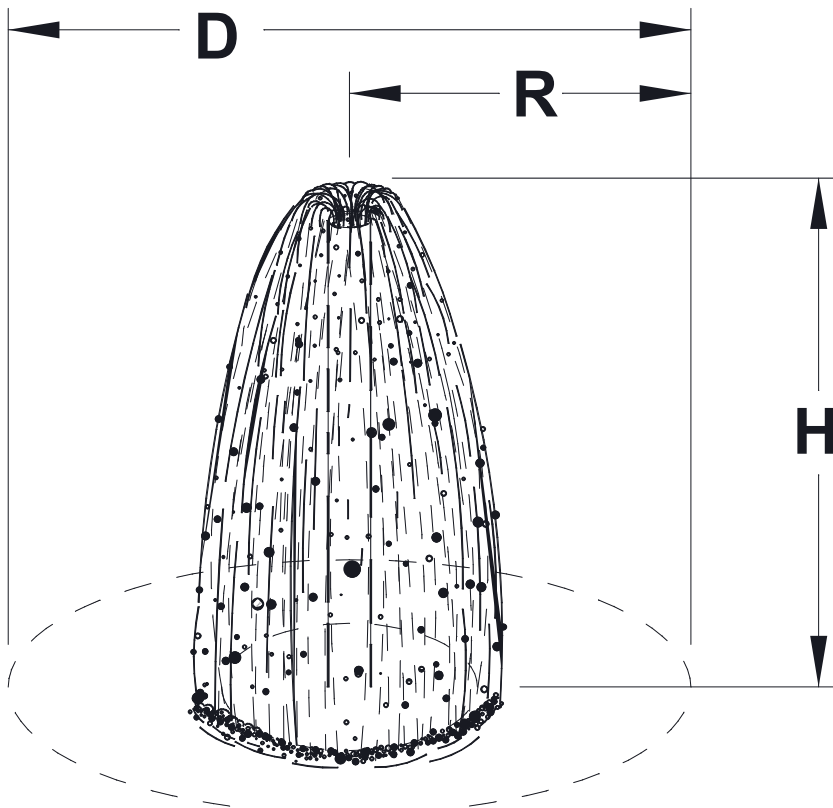
1. NOTE! Due to the delicate water pattern that this fountain head forms, the Water Lily is not recommended for windy locations.
2. Remove the plaster shield from the floor fitting housing. After the pool is filled, measure the exact depth of the water at the fountainhead location.
3. With an A&A Installation Tool (with 3 prongs) remove the fountainhead collar from the floor fitting housing.
4. Remove the fountainhead nozzle (see Figure 3) from the fountain head tube and cut the tube to the desired height of the Water Lily Fountain. Since the tube is 24" long, the maximum height possible is 18" above the water level in an area where the water depth is a maximum of 6" deep. If an 18" fountain is desired the tube does not need to be cut. Simply glue the fountain head to the 24" tube. For proper effect, **do not exceed 18" above water.**
5. IMPORTANT, before gluing the nozzle to the end of the sized fountainhead tube, insert the cut end of the tube up through the bottom of the fountainhead collar then glue the nozzle in place using clear PVC to PVC cement. (See Figure 4)
6. Reinstall the assembly by installing the collar back into the floor fitting housing. **Use special spanner wrench supplied.**

### Crystal Spray Instructions

1. Remove the plaster shield from the floor fitting housing. After the pool is filled, measure the exact depth of the water at the fountainhead location.
2. With an A&A Installation tool (with 3 prongs), remove the fountainhead collar from the floor fitting housing.
3. Remove the fountainhead nozzle (see Figure 3) from the fountainhead tube and cut the tube to the length required for the nozzle to rise **1" above** the pool water surface. Cut the plain end of the tube opposite the end with the inlet fitting.
4. IMPORTANT, before gluing the nozzle to the end of the sized fountainhead tube, insert the cut end of the tube up through the bottom of the fountainhead collar **then** glue the nozzle in place using clear PVC to PVC cement. (See Figure 4)
5. Reinstall the assembly by installing the collar back into the floor fitting housing.

# How to Determine Fountain Base Size

The following drawing and chart are provided so that you can determine how close you may install the Splash Down Fountain to a pool edge. The higher the desired peak of the fountain, the further the fountainhead must be installed from the pool edge.



Splashdown (Column)

Height	Radius	Diameter
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 @ 7gpm

Height	Radius	Diameter
40"	27"	54"

Water Lily

Height	Radius	Diameter
20"	12"	24"

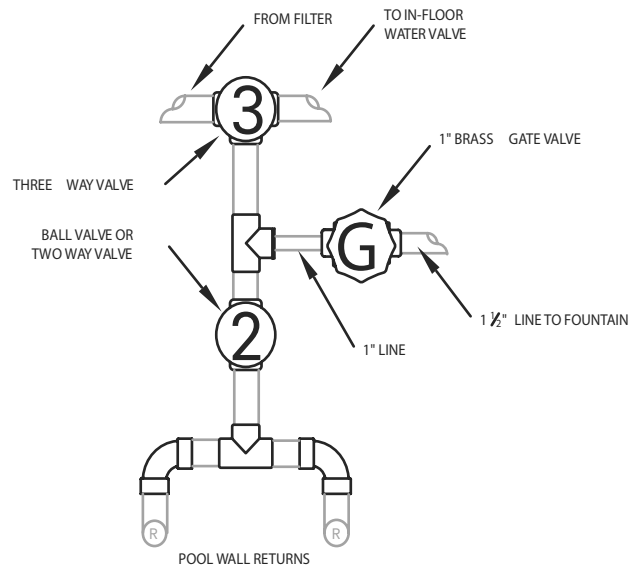
## To Use the Above Chart:

1. Determine the desired fountain height you are trying to accomplish.
2. Find that height in the left column of the above chart and in column #2 you will find the approximate minimum distance the fountainhead must be installed from the pool edge. Any closer and the water from the fountain will fall on the deck of the pool.
3. Column #3 shows the diameter of the entire fountain base.
4. Example: If you desire a fountain height of 2'-0" the fountainhead must be at least 3 feet from the pool's edge and the diameter of the fountain base will be 6'-0".
5. 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.
6. You cannot place a fountainhead any closer than 6 inches to the edge of a bench or shelf.
7. Approximately 8 GPM is required for each fountainhead.
8. Splash Down Fountains must be installed parallel to the water line in areas such as bench shelves, extended steps (other than the 1st step), spa floor, etc. **Do Not** install them in the pool floor, radii or side walls.
9. The fountain housing **must be** plumbed and set at a perfect 90° angle so that the fountain comes up in a perfectly vertical column. Note: In the above drawing, the radius and diameter boundaries appear to be twice as large as the fountain column of water. The additional area is required to contain any intermittent sprays and splashes.

# Splash Down Header Details

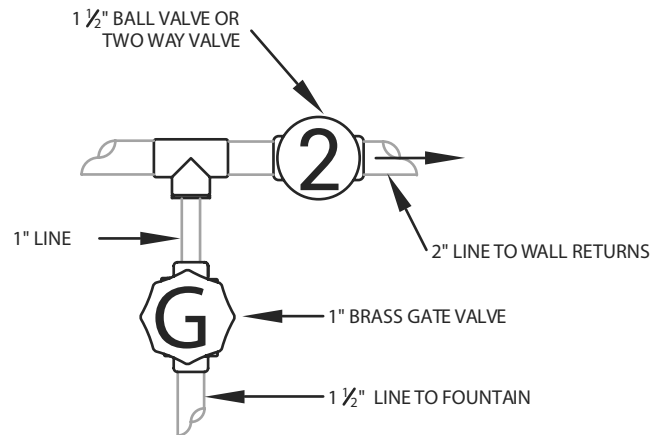
## Splash Down Fountains With In-Floor Cleaning

1. Note that the feed line to the Splash Down Fountain interrupts the feed line to the wall returns. **Do not** interrupt the line to the cleaning system.
2. If more than one fountain is installed, run a separate line for each with its own 1" brass gate valve. This will allow for individual adjustment, assuring the desired fountain height and effect of each.
3. It is necessary for a ball valve or 2-way valve to be installed between the fountain feed lines and the wall returns so that fountain water heights may be individually adjusted. (See Figure 6)
4. Do not use a 2-way or 3-way valve in place of the gate valve to feed the fountains. These valves would allow rapid opening of the feed line making it possible to damage the fountainheads.



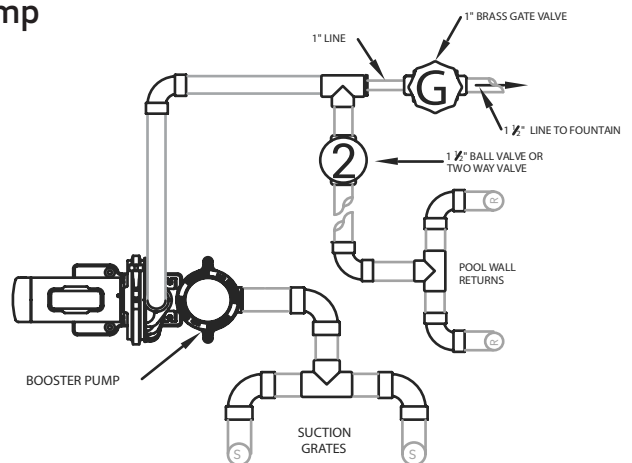
## Splash Down Fountains With Wall Returns

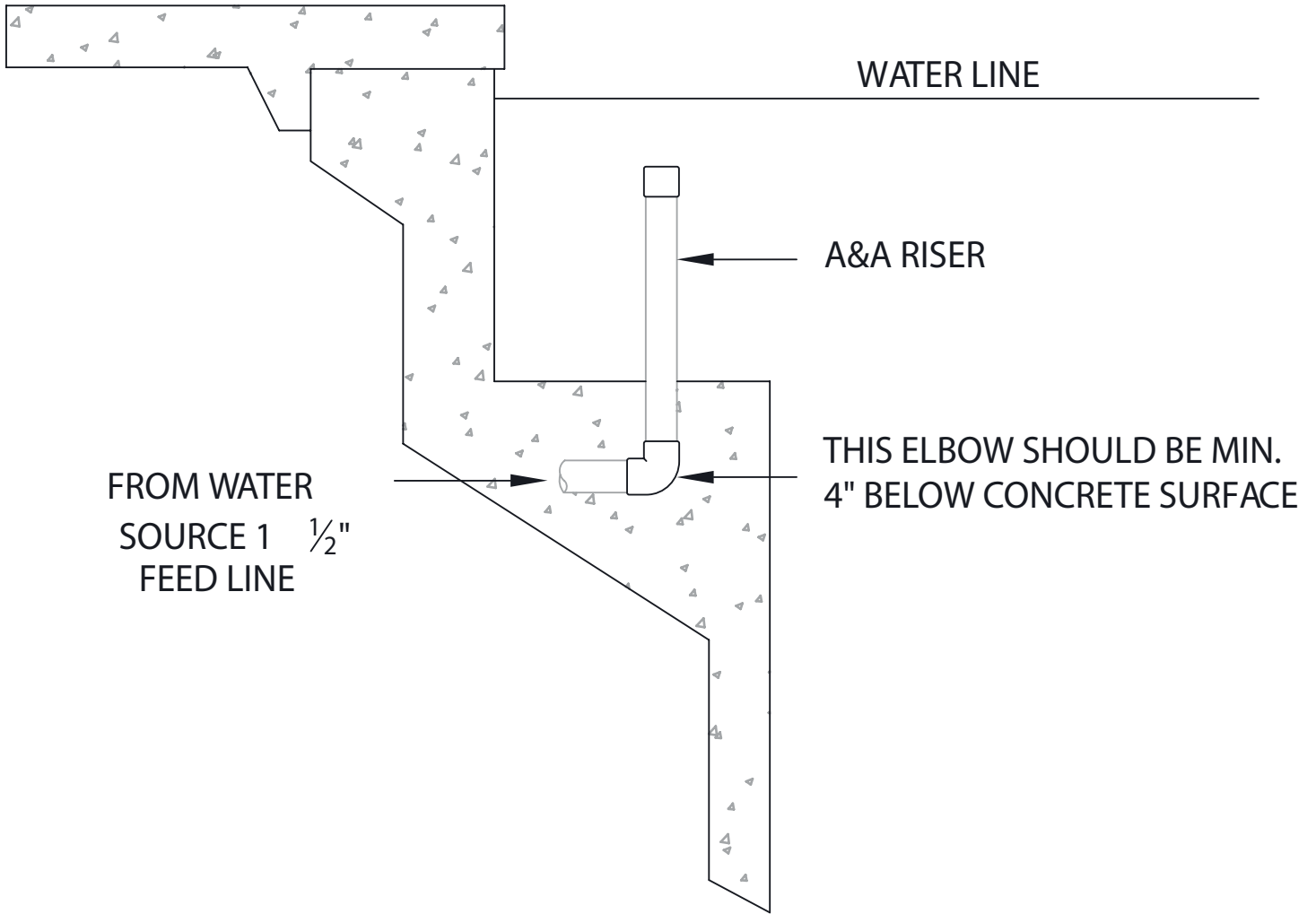
1. Note that the feed line interrupts the return line ahead of the ball valve or 2-way valve feeding the wall returns. (See Figure 7)
2. If more than one fountain is involved, install a feed line and 1" brass gate valve for each fountain. This will allow individual adjustment for the water height of each fountain.



## Splash Down Fountains With a Separate Booster Pump

1. If a separate pump is used to feed the Splash Down Fountain or Fountains, it will be necessary to run a feed line to wall returns as well. (See Figure 8)
2. Since each fountainhead will use approximately 8 gpm, it is necessary to have a means for discharging any excess water from the booster pump.
3. If more than one fountainhead is being supplied from the booster pump, it is essential that each fountainhead be supplied by its own feed line and brass gate valve. This will allow for the individual height adjustment of each Splashdown fountain.





**Bubble Jet Detail**