

3/4" Over Flow Design

Materials

- 55 Gallon Food Grade Barrel
- 3/4" Hose Bibb
- 1" round washer
- 1" rubber round washer
- 3/4" galvanized steel 90° elbow
- 3/4" galvanized steel nipple
- 3/4"x1/2" galvanized steel reducer
- strainer/basket
- Thread sealant
- silicon caulk
- Window screen
- Electric plastic saw
- 1" drill bit and electric drill



Instructions

Step 1: Acquire a 55 gallon food grade barrel if possible. Make sure the barrels had nothing toxic in them. Wash and scrub the barrel, inside and outside.

Step 2: Remove top lid and saw one round hole the diameter of the strainer/basket for the lid closer to one edge where the downspout will pour into. Drill two holes in the barrel - a 1" hole in the barrel approximately 4" from the top and 2" from the bottom.



Step 3: Place 1" washer on 3/4" hose bibb. Place the hose bibb and steel washer outside the barrel in the bottom hole drilled in Step 2.





Step 4: On the inside of the barrel, place the 1" rubber washer on the end of the hose bibb inside the barrel and press to the wall of the barrel until snug.

Step 5: Spread pipe thread sealant on the threads of the 3/4" galvanized steel 90° elbow, which will be twisted onto the end of the hose bibb inside the barrel. Tighten the elbow by holding the hose bibb in place and use a wrench. Do not overtighten.



At this point the order should be as follows from the outside to the inside of the barrel:

- | | |
|----------------|--|
| | Hose Bibb |
| OUTSIDE | Steel Washer |
| | Barrel Wall |
| INSIDE | Rubber Washer |
| | Galvanized Steel 90° Elbow with Thread Sealant |



Step 6: Place a 3/4" galvanized steel close nipple in the top 1" hole of the barrel. Add silicon caulk if necessary. This will act as an overflow valve to let water out once it reaches too high of a point. This can be diverted to a garden or into another barrel.



Step 7: Place strainer/basket in the hole of the lid. Secure a section of window screen over the strainer/basket. Secure the strainer/basket to the lid of the barrel using silicone and stainless steel nuts and bolts. This will filter out debris and bugs. Place lid of barrel back onto barrel.



Step 8: Install under eaves or rain gutter down spout. Let it rain!