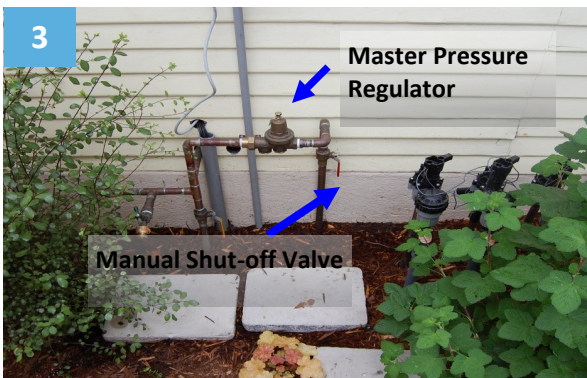


# Sprinkler to Rotary Nozzle

## Step-By-Step Instructions



# Sprinkler to Rotary Nozzle

www.WaterWiseSB.org

## Tools/Parts:

- Wrench
- Master pressure regulator
- Low flow valve (anti-siphon if no master back-flow)
- Sprinklers with pressure compensating stems.
- Rotary nozzles
- Nozzle adjustment tool



*Old sprinkler spraying water onto the driveway.*



*New sprinkler body with Rotary Nozzle & Pressure Compensating Stem eliminated the overspray.*

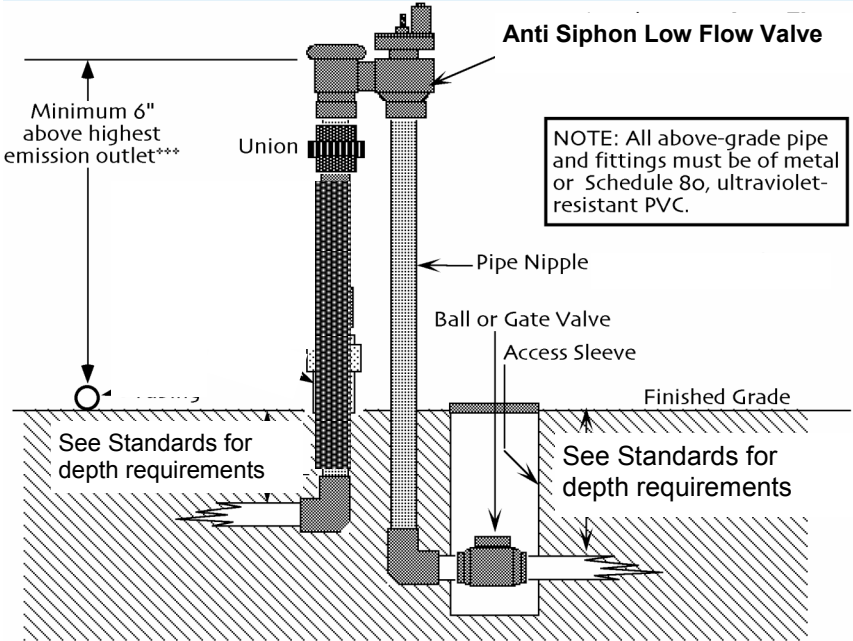
This picture shows a retrofit of an existing sprinkler to a rotary nozzle sprinkler.

- 1** Turn on the sprinklers.
  - Make a note of how many sprinklers you have in each zone and the number operating on the same valve.
  - Note which sprinklers spray at 45 degrees, 90 degrees, 180 degrees, 360 degrees.
  - Measure the width and length of zone. You'll need this information to determine the type of nozzles to buy.
- 2** Rotary nozzles operate best at 30-40 psi. In the majority of homes and buildings in Santa Barbara, the water pressure is about 90 psi and as a result pressure regulation is required. High pressure can affect the watering coverage of rotary nozzles, wear down your irrigation systems parts quicker than normal, and use more water than needed. See Detail A; page 3.
- 3** If missing from the existing system, install master pressure regulator and manual shut-off valve before modifying sprinklers.
- 4** Replace existing control valve with low-flow valve that has an anti-siphon valve included. Anti-siphon not necessary if master backflow device currently exists. See Detail A; page 3.
- 5** Remove the old sprinkler bodies (if necessary).
- 6** Install the new pressure compensating sprinkler bodies and replace the nozzles with rotary nozzles. You need to replace all the sprinklers on the valve so that you have the same pressure and the evenly distribute the water.
- 7** Flush the system by removing the last nozzle in the zone and turning on the sprinklers. Replace nozzle then adjust the rotary nozzles as needed using the nozzle adjustment tool. You can adjust both the radius and the degree of the water's coming from the nozzle.
- 8** Change the automatic timer to run rotary nozzles—use the Watering Calculator and Watering Index as a guide. Visit [www.WaterWiseSB.org](http://www.WaterWiseSB.org)

# Sprinkler to Rotary Nozzle

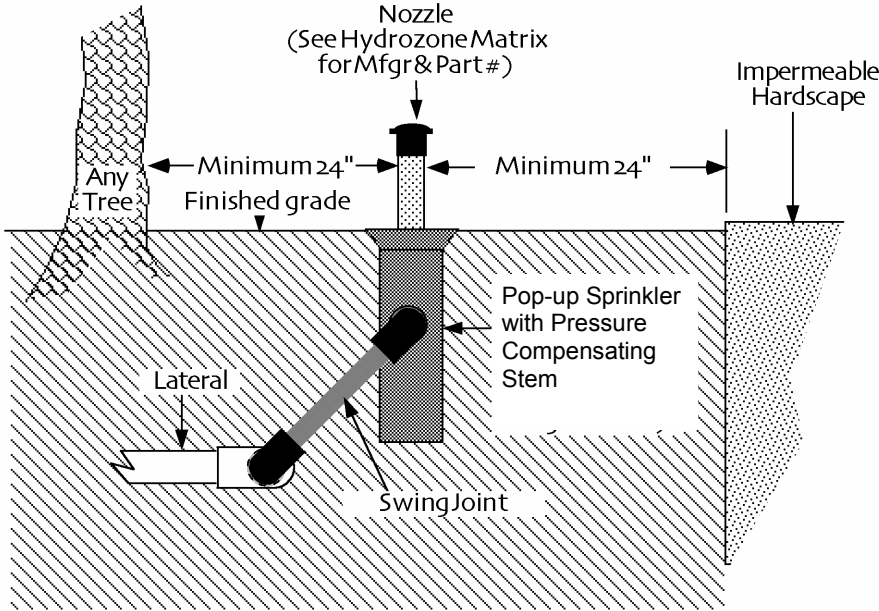
www.WaterWiseSB.org

## Detail A Valve Assembly for Residential Sprinkler System\*



\* The minimum flow rate of the valve must be equal to or less than the flow rate of the zone.  
 \*\* Optional if Master Device installed at Point of Connection  
 \*\*\* For container zones this dimension must be at least six inches above the rim of the highest container.

## Detail B Drip Irrigation System Tattletale Flush Assembly



City of Santa Barbara Water Conservation Program

These details are not to scale. Select photos provided by Amy Williams Photography.  
 Courtesy of the City of Santa Monica.