



Drip Irrigation Basics

Advantages

- Soaks root zone, stimulating plant growth
- Reduces weeding, since you only water your plants
- Saves water by eliminating overspray and runoff
- Easy to automate with adjustable hose-end timers

Main Components

Faucet Connection Kit, Backflow Preventer, Adapters

Emitter Tubing

- Best for dense areas, gardens, ground cover
- Has holes in $\frac{1}{4}$ " or $\frac{1}{2}$ " diameter tubing at regular intervals
- Can be installed on top of or beneath mulch

(Solid) Drip Irrigation Tubing

- Used to transport water from source to plants with no leakage or loss of pressure
- Sold in $\frac{1}{2}$ " or $\frac{1}{4}$ " coils, in standard 50', 100' or 250' lengths
- Main runs typically $\frac{1}{2}$ " diameter tubing, lateral lines typically $\frac{1}{4}$ " diameter tubing
- Barbed fittings are used to create in-line or right-angle connections

Drippers

- Best for individual plants, flower boxes, containers
- Available in 0.5 to 5 gallon-per-hour (GPH) watering rates (color coded)
- Color coding is not consistent between brands: pick one and stick with it
- Only use with solid tubing
- Attach to $\frac{1}{2}$ " tubing directly, or lateral off $\frac{1}{2}$ " tubing to $\frac{1}{4}$ " tubing, staked into soil

Bubblers

- Best for shrubs, trees, dense planting areas
- Creates multiple streams in circular or half-circular pattern
- Each bubbler can have flow manually adjusted independent of other units on the system
- Only use with solid tubing

Popular Brands: Rain Bird, Raindrip, Orbit, DIG, Antelco, Pope
Available through local hardware and big-box stores or online.

Emitter Tubing:



Solid Drip Irrigation Tubing:



Dripper:



Bubbler:

