

How Add-It® & Fertilizer Caddy® *Proportioning* Fertilizer Injectors Function

Add-It and **Fertilizer Caddy** are fabricated of PVC, except for the pint capacity **Add-It** which is molded ABS plastic. **Add-It** is available in capacities ranging from a small pint injector with hose threads, all the way up to 5 gallons. The **Fertilizer Caddy** is available in capacities ranging from 1½ quart up to 5 gallons. Except for the pint capacity **Add-It** injector, they are designed to be installed under constant line pressure up to 80 PSI, and can therefore be installed before a manifold of multiple control valves, or after a single valve. Both the **Add-It** and **Fertilizer Caddy** injectors are proportioning. This means the injection rate is the same from start to finish, preset at a ratio of 200:1, 200 parts water to 1 part fertilizer or additive. However, the pint capacity **Add-It** injectors is preset at a 100:1 ratio and has a maximum intermittent working pressure of 60 PSI. All the guess work is gone. There is nothing to adjust. The plants will receive the proper amount of fertilizer and/or additive for optimum plant health and growth!

The **Add-It** and **Fertilizer Caddy** fertilizer injectors can be easily plumbed directly into the irrigation system with PVC pipe. **Add-It** can be installed almost anywhere. The inlet and outlet should be as horizontal as possible. The ½ gallon up to 2 gallon capacity units are suspended with PVC pipe. While the larger units, 3 and 5 gallon capacity, are self-supporting and sit horizontally on a level surface. The inlet/outlet manifold of the **Fertilizer Caddy** should be installed slightly higher than the top of the additive tank.

Because of the innovative design, the **Fertilizer Caddy** can be installed almost anywhere. That's because they come with a manifold that can be installed into any irrigation line either vertically or horizontally, and from line sizes ranging from ¾" up through 2". The manifold is connected to the additive tank with high pressure ¼" poly tubing. The **Fertilizer Caddy**, when equipped with hose threads, can also be used as a portable foliar feeder, making it even more versatile!

The concept of operation of **Add-It** and **Fertilizer Caddy** are basically the same. Through a unique hydraulic design, a small amount of water is diverted from the main stream of water flowing through the manifold or tee assembly, and forced into the top of the additive tank. A slight pressure differential is created between the inlet and outlet of each injector. Therefore, a small amount of water is diverted from the mainstream into the top of each tank. Fertilizer is drawn from the bottom of the additive tank. The water coming into the tank is lighter than the fertilizer, and therefore floats on top, making the injection rate constant from start to finish. It's amazing, yet simple! **Add-It** and **Fertilizer Caddy** fertilizer injectors allow the user to distribute fertilizer uniformly throughout the irrigation system. It is of particular benefit to those who use drip and sub-surface irrigation, because an injector is the only means of fertilizing easily, efficiently and economically.

Add-It and **Fertilizer Caddy** have been designed for use with any brand of liquid fertilizer on the market today, and can also be used with totally water-soluble dry fertilizers, such as Scotts Miracle-Gro® and Peters Professional®, Bandini Pro Choice®, Grow More®, and others, when pre-blended with water. Over many years, tests have concluded that applying liquid fertilizer on a regular basis is much more beneficial to a plant than being fed infrequently with a dry, granular form of fertilizer. Liquid fertilizer is absorbed far more easily by a plant's root system, and there are no leftover residues or minerals that can, over a period of prolonged use, damage a plant or lawn. Wetting agents can also be added to help breakup compacted soils, micro-nutrients & Vitamin Institute's SUPERthrive™ containing vitamins and hormones for healthier plants, and vitamin B-1 when transplanting trees and shrubs.

The primary advantage of the **Add-It** fertilizer injector, aside from its easy installation and use, is the fact that there is no pressure loss and no electricity is required. There is a very slight 2 pound pressure loss when installing and operating the **Fertilizer Caddy**. The **Add-It** fertilizer injector has no moving parts, while the **Fertilizer Caddy** has only one, making them extremely reliable! With the many sizes, capacities and configurations **Add-It** and **Fertilizer Caddy** are available in, it's easy to see why there are many applications in the agricultural, commercial, greenhouse, golf course, and residential areas where they can be utilized!

Strong Injectors has four (4) times received recognition from the *American Society of Agricultural Engineers* by receiving the prestigious **ASAE – AE50** award for innovative product design. There are currently well over 165,000 **Add-It** and **Fertilizer Caddy** fertilizer injectors already being used by people just like you, people who understand the concept and benefits of fertigation. **Add-It** has been featured in *Sunset* magazine, seen on *HGTV's - Gardening by the Yard*, and is member tested and recommended by the *National Home Gardening Club*!

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