



# MAZZEI VENTURI FERTILIZER INJECTORS- 15MM - 50MM

---

Mazzei Injectors (patented) are extremely efficient, compact differential injection devices. Currently operating successfully in thousands of installations worldwide. Mazzei Injectors offer a reliable, accurate and economical method to inject virtually any liquid or gas substance into a pressurized fluid stream.

## Application

The highly versatile Mazzei Injectors are suitable for a wide variety of applications -

### Agriculture

*Ag Irrigation Systems* - to inject fertilizers and other chemicals or water treatment additives.

*Ag Spray Systems* - for mixing and/or the transfer of concentrated pesticide materials.

*Food Processing* - for water chlorination, injection of detergents, bacterial agents and other water treatment purification additives.

### Home and Garden

*Irrigation Systems* - for application of liquid fertilizer through landscape sprinkler or drip irrigation systems, hose end sprinklers and/or spray nozzles.

(Check local guides)

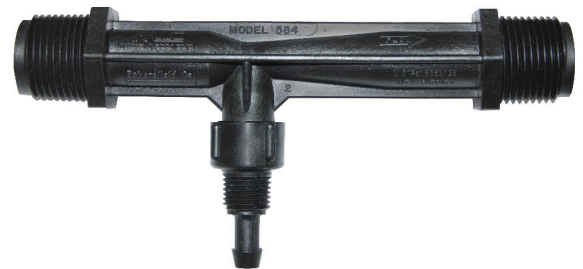
### Industrial/Commercial

*Water Treatment* - to inject air, liquids, gases (ozone) and other water purification chemicals for cooling tower or other water or fluid recirculatory systems, waste

water systems and potable water systems.

*Washing and Cleaning* - to inject detergents, solvents and other cleaning agents

into carpet cleaning equipment, car wash systems, dishwashing equipment and other industrial cleaning processes.

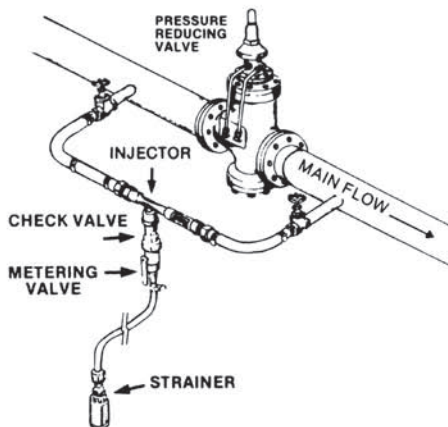


# MAZZEI VENTURI FERTILIZER INJECTORS- 15MM - 50MM

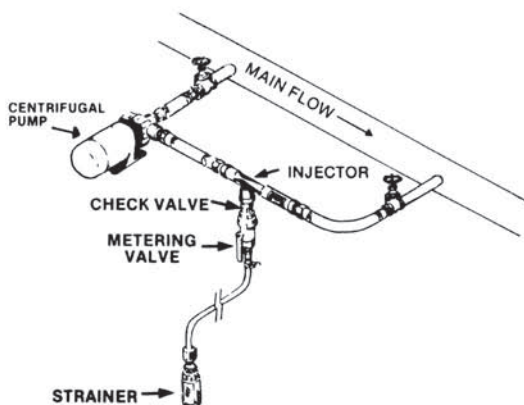
## How the Mazzei Fertilizer Injector works:

When pressurized, operating (motive) fluid enters the Injector inlet, it is constricted toward the injection chamber and changes into a high velocity jet stream. The increase in velocity through the injection chamber results in a decrease in pressure, thereby enabling an additive material to be drawn through the suction port and entrained into the motive stream. As the jet stream is diffused toward the injector outlet, its velocity is reduced and it is converted into pressure energy (but at a pressure lower than the injector inlet pressure.)

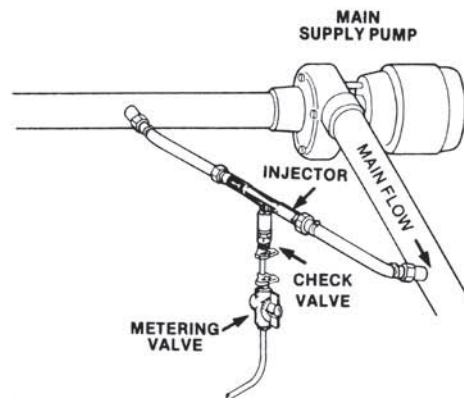
## Typical Installations



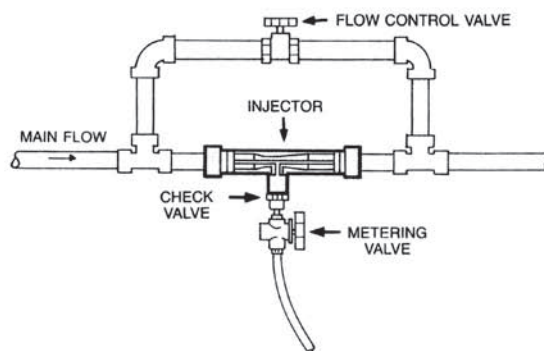
Injector installed around a point of restriction such as a regulator valve or gate valve which creates a differential pressure, thereby allowing the injector to produce a vacuum.



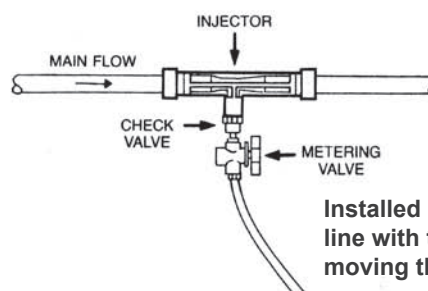
Installed in conjunction with a centrifugal pump to boost pressure through the injector thereby creating a differential pressure and producing a vacuum for chemical induction downstream from the pump.



Injector installed across the differential pressure created by an existing booster or supply pump in the system. It is plumbed from the discharge side to the intake side of the pump.



Injector installed in main flow line with flow control valve on by-pass line.



Installed directly in the main flow line with total flow of the system moving through the injector.