

FERTILIZER INJECTORS

**SIMPLE VENTURI TECHNOLOGY
DELIVERS MAXIMUM PERFORMANCE**



2" FERTILIZER INJECTOR



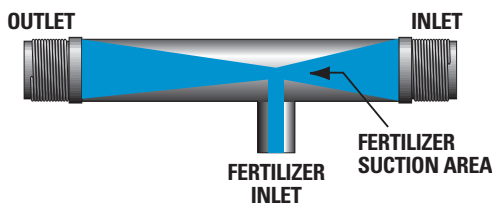
3/4" FERTILIZER INJECTOR

PRODUCT ADVANTAGES

- Designed with simple venturi technology requiring few moving parts and little maintenance.
- Chemical injection at rates of over 470 GPH to as low as 0.5 GPH depending on injector size and operating pressure.
- Extremely uniform injection rate from start to finish at nominal system flows rates.
- Venturi injectors provide most cost-effective method of introducing chemicals into a pressurized irrigation system.
- Easy installation with small size and lightweight design while providing maximum flexibility in confined spaces.

SPECIFICATIONS

- 2" Fertilizer Injector: Standard with check valve and throttling valve assembly.
- 3/4" Fertilizer Injector: Standard with suction hose and strainer, check valve and throttling valve assembly and a selection of restriction orifices to allow the unit to accurately inject chemicals at very low flow rates.
- Components: Manufactured from special plastics that are resistant to most common agricultural chemicals, acid and chlorine.
- Multiple Units: Can be manifolded together to provide simultaneous injections of compatible chemicals or to double injection rates.



MAXIMUM CHEMICAL SUCTION CAPACITY - 3/4" INJECTOR

INLET PRESSURE	OUTLET PRESSURE	MAX. FLOW (GPH)
20	5	57.0
30	10	50.3
40	15	46.5
50	25	44.1
60	25	42.9
70	35	41.5
80	40	39.6
100	50	36.5

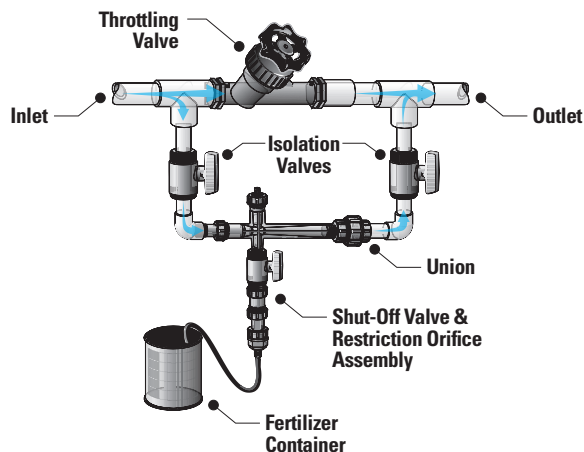
MAXIMUM CHEMICAL SUCTION CAPACITY - 2" INJECTOR

INLET PRESSURE	OUTLET PRESSURE	MAX. FLOW (GPH)
20	5	516.3
40	20	490.5
60	30	471.2
80	40	481.3
100	60	498.6

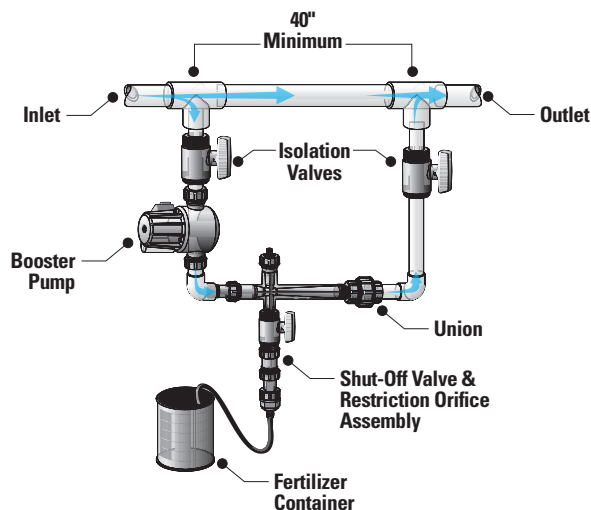
NOTE: Chemical suction capacities listed are for maximum flow conditions. Increasing outlet pressure will reduce the suction capacity. In general, injectors require a minimum differential of 20-25% in order to operate correctly.

FERTILIZER INJECTORS

AS A BYPASS TO A REDUCING VALVE



AS A BYPASS, WITH ADDITIONAL BOOSTER PUMP WHEN THERE IS NO ALLOWABLE HEAD LOSS IN THE MAIN LINE.



CHEMICAL INJECTION RATES

To calculate the total gallons of chemical injection to achieve a concentration of one part per million (ppm) follow these steps:

1. Determine the chemical's weight per gallon. If you do not know, consult your chemical supplier.
2. Determine the pounds of active ingredient or nutrient per gallon. To do this, multiply the manufacturer's stated percent of active ingredient by the chemical's weight per gallon.
3. Divide 2.72 by the pounds of active ingredient per gallon. This equals the gallons of chemical injection required per acre foot to equal one ppm.
4. To determine the gallons of chemical injection per 100,000 gallons of water, multiply the result in Step 3 by 0.31.

CAUTION:

The injection of chemicals into an irrigation system may be governed by local, state or federal ordinance. Please consult appropriate authorities before proceeding.

ORDERING INFORMATION

ITEM NUMBER	MODEL NUMBER	SIZE	BODY MATERIAL	CONNECTION
33000-001300	28VFPF75	3/4"	PLASTIC	THREADED
33000-001400	28VFPD212	2"	PLASTIC	THREADED

CONNECTION & DIMENSIONS

MODEL	CONNECTION	HEIGHT	LENGTH
3/4"	3/4" NPT	13.9"	11.4"
2"	2" FEMALE NPT	15"	20.5"



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