



FLUID-POWERED DOSING PUMPS FOR

# Irrigation

FERTILIZERS / NUTRIENTS

WATER TREATMENT

PESTICIDES

PH CONTROL



# DOSATRON®

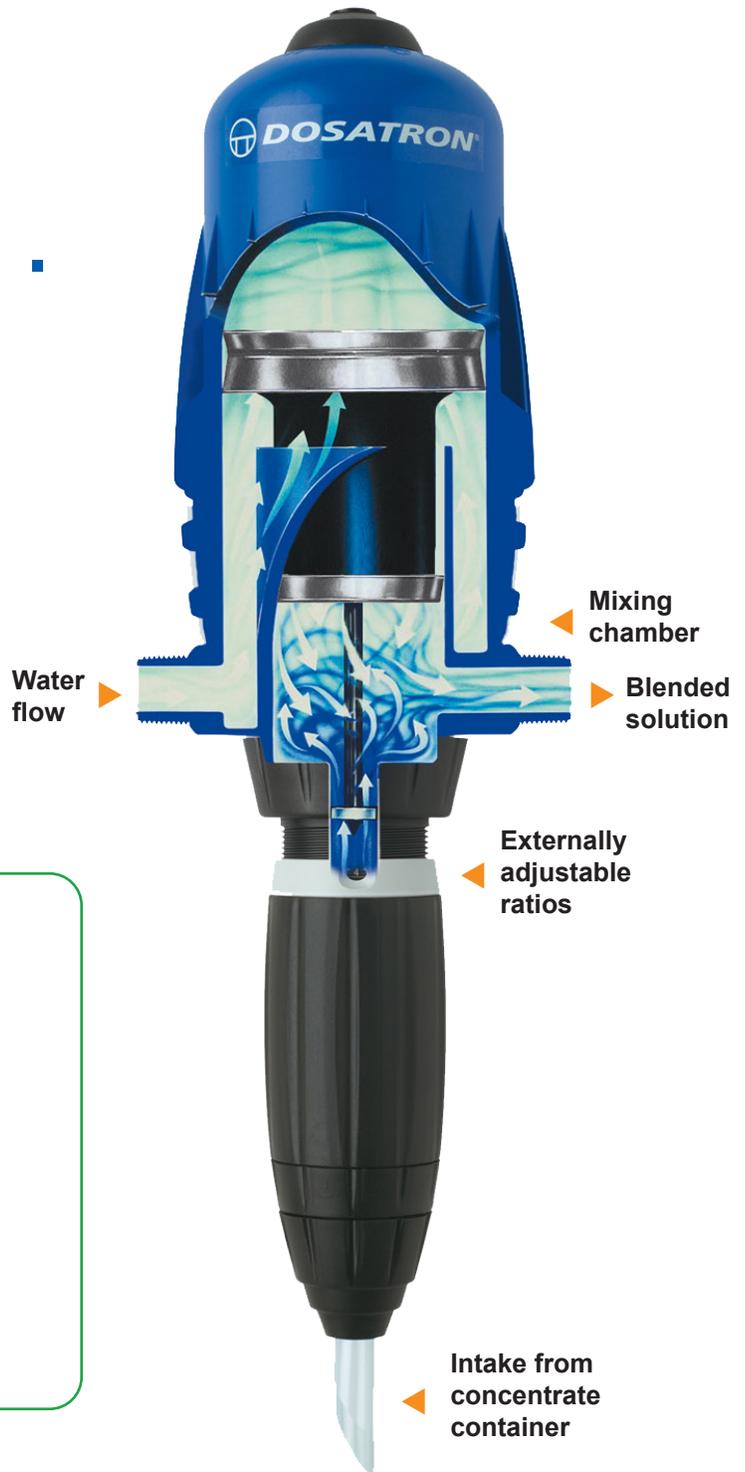
An Ingersoll Rand Business

# Here's How It Works . . .

The Dosatron pulls up solution like a syringe, drawing in the concentrate with the plunger. On the down stroke, the concentrate is displaced into the body of the Dosatron, where it mixes with the incoming water. Then just the right amount of fertilizer is discharged into the water line.

## Dosatron fertilizer injectors are:

- Water-powered, non-electric
- Accurate regardless of variations in flow and pressure
- Easy to adjust
- Consistent with low pressure loss and provide a precisely blended solution



# HOW IT WORKS

800-523-8499 • [www.dosatron.com](http://www.dosatron.com)

# The Dosatron Difference

Dosatron units feature superior engineering to create the most durable, easy-to-use, low-maintenance product on the market. We manage your chemical application through repeatability, regardless of fluctuations in pressure or flow. Dosatron also supports you every step of the way with world-class customer service. Trust only genuine Dosatron products.



## Dosatron Injectors Accurately Inject:

- Fertilizers
- Nutrients
- Organics
- Beneficials
- Fish Emulsion
- Teas
- Herbicides
- Plant Growth Regulators (PGRs) for Drenching
- Chlorine
- Insecticides
- Fungicides
- Algicides
- Acids
- Wetting Agents
- Sanitizers (special models available)
- Nematodes

flowers to food

greenhouse to field



# 11 GPM

- **D25F1**  
Ratio: Fixed at 1:100
- **D25RE2**  
Ratio: 1:500 to 1:50
- **D25RE09**  
Ratio: 1:1000 to 1:112  
Pipe Size: 3/4" NPT  
Size: 14" high x 6 1/4" wide  
Weight: 4 lbs  
Bypass: Optional



# 14 GPM

- **D14MZ2**  
Ratio: 1:500 - 1:50  
Pipe Size: 3/4" NPT  
Size: 19 1/8" high x 6 5/16" wide  
Weight: 6 lbs
- **D14MZ10**  
Ratio: 1:100 to 1:10  
Pipe Size: 3/4" NPT  
Size: 19 1/8" high x 6 5/16" wide  
Weight: 6 lbs
- **D14MZ1000**  
Ratio: 1:1000 to 1:100  
Pipe Size: 3/4" NPT  
Size: 19 1/8" high x 6 5/16" wide  
Weight: 6 lbs
- **D14MZ3000**  
Ratio: 1:3000 to 1:333  
Pipe Size: 3/4" NPT  
Size: 21" high x 6 5/16" wide  
Weight: 6 lbs  
Bypass: Optional



# 100 GPM

- **D20S**  
Ratio: 1:500 to 1:50  
Pipe Size: 2" NPT  
Size: 55" high x 15" wide (with legs)  
42" high x 15" wide (no legs)  
Weight: 47 lbs  
Bypass: Standard



**Accessories included:**

Mounting bracket or legs, suction hose with weighted strainer, and operating manual.

**Recommended:**

- 200 mesh filter
- check valve
- pressure regulator
- flow restrictor
- water hammer arrestor kits

# DOSATRON INJECTORS

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## 20 GPM

### ■ D45RE15

Ratio: 1:500 to 1:66

Pipe Size: 1" NPT

Size: 24" high x 7 1/2" wide

Weight: 8 lbs

Bypass: Standard



## 40 GPM

### ■ D40MZ2

Ratio: 1:500 to 1:50

Pipe Size: 1 1/2" NPT

Size: 25 1/4" high x 8 1/2" wide

Weight: 12 lbs

### ■ D40MZ5

Ratio: 1:100 to 1:20

Pipe Size: 1 1/2" NPT

Size: 25 5/16" high x 8 1/2" wide

Weight: 12 lbs

### ■ D40MZ1000

Ratio: 1:1000 to 1:100

Pipe Size: 1 1/2" NPT

Size: 25 1/4" high x 8 1/2" wide

Weight: 12 lbs

### ■ D40MZ3000

Ratio: 1:3000 to 1:500

Pipe Size: 1 1/2" NPT

Size: 25 1/4" high x 8 1/2" wide

Weight: 12 lbs

Bypass: Optional



## 132 GPM

### ■ D132MZ1

Ratio: 1:1,000 to 1:100

Pipe Size: 3" NPT

Size: 36 3/4" x 25 11/16" x 8 13/16"

Weight: 33 lbs

Bypass: Optional

### ■ D132MZ5000

Ratio: 1:5,000 to 1:500

Pipe Size: 3" NPT

Size: 36 3/4" x 25 11/16" x 8 13/16"

Weight: 33 lbs

Bypass: Optional

### ■ D132MZ30000

Ratio: 1:30,000 to 1:3,000

Pipe Size: 3" NPT

Size: 36 3/4" x 25 11/16" x 8 13/16"

Weight: 33 lbs

Bypass: Optional



# DosaCarts

## Perfect for Garden Centers

Simply the easiest and most convenient way to fertilize and treat your plants while you water. DosaCarts provide proportional on-demand dispensing, polyethylene construction, 10" no flat tires, and narrow width for maximum mobility.

## Eco-Cart

### Portable Fertilization System

The 5-gallon Eco-Cart provides quick and easy proportional on-demand dispensing, for a great value.

#### Eco-Cart - 14 GPM (Part #: HSECO-D14MZ2)

**includes:**

- Cart
- 5-gallon bucket with lid
- Dosatron D14MZ2
- Plumbing

#### Eco-Cart - 11 GPM (Part #: HSECO-D25F1)

**includes:**

- Cart
- 5-gallon bucket with lid
- Dosatron D25F1 (fixed 1:100)
- Plumbing

#### Eco-Cart (Part #: HSECO)

**includes:**

- Cart
- 5-gallon bucket with lid
- Plumbing



## Li'l Bud-D

### Part #: HS15-5

**Includes:**

- Cart
- 5-gallon bucket with lid

**Accommodates:**

- 11 GPM
- 14 GPM

**Quick Hook-Up kit available:**

- 11 GPM, 14 GPM - Part #: HSPK58LB

Li'l Bud-D, Dosatron injector, and Quick Hook-Up kit are each sold separately.



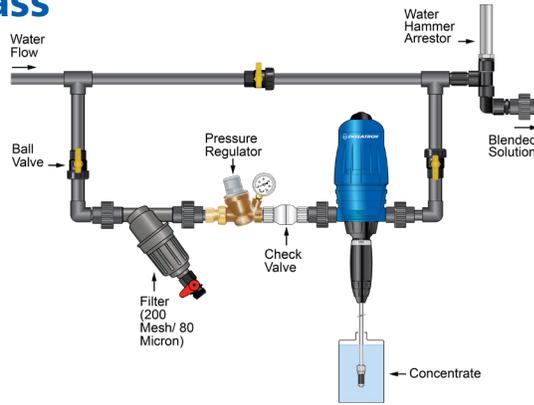
Goes where you need, to keep your profits blooming!

# PORTABLE FERTILIZER INJECTORS

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## Standard Bypass Installation

For wall mounting. Can also be controlled automatically with solenoid valves.



**Filter**  
(200 mesh/80 micron)

Provides protection from debris in water lines

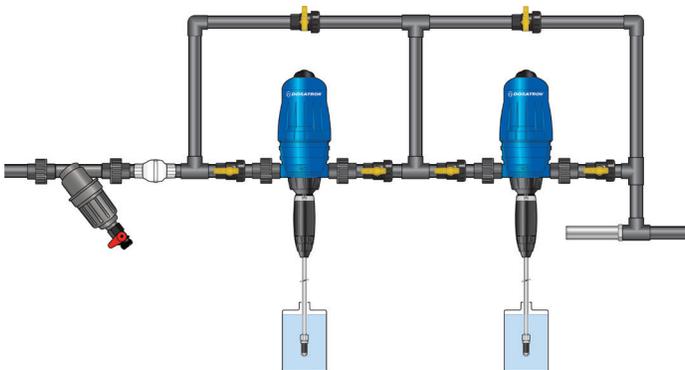


**Check Valve**

Reduces effects of water hammer

## Series Installation

Allows injection for multiple solutions.



**Flow Restrictor**

Controls and manages water flow

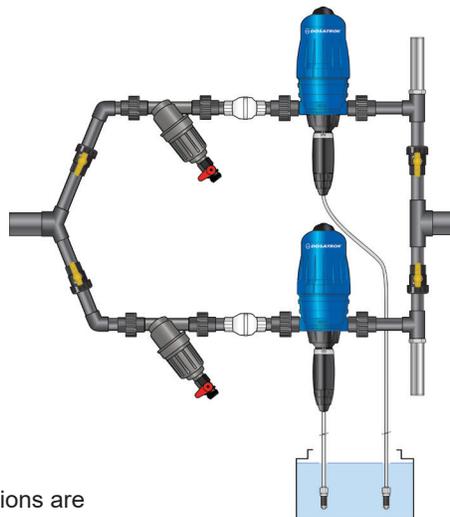


**Pressure Regulator**

Controls and manages water pressure

## Parallel Installation

Increase water flow capacity by installing injectors in parallel.



**Water Hammer Arrestor Kits**

Controls effects of water hammer. See our kit options on page 8



**Maintenance Kits**

Perfect solution for users and growers who perform maintenance on a regular schedule. Scan the QR code to find out more.

**NOTE:** Installation illustrations are to be used as a reference guide only.

# NUTRIENT DELIVERY SYSTEM

The **Nutrient Delivery System** was designed with every type of grower in mind. Simple to set-up and easy to operate, this modular proportional nutrient dispensing system delivers precise results every time, regardless of fluctuations in pressure or flow. With the ability to customize the panel, based on your nutrient program, the Nutrient Delivery System is flexible enough to fit into every grower's fertigation system and works well with various types of irrigation. Whether using the drain-to-waste method or a recirculating system using reservoirs, the end result is the same – eliminate the need to measure & pour, and **automate your feeding schedule!**

- Features:**
- Nutrient dosers
  - Easy to use and maintain
  - Constant EC/pH monitoring
  - Customize to your specific needs
  - Eliminate reservoir
  - Automated irrigation timer

## Nutrient Delivery System Kits Are Simple To Set Up, Maintain, and Operate

**Starter Kit** — Includes all the parts you need to get started, from ball valves to Teflon® tape.

PART #: HYKSTART-STD



**Mixing Chamber Kit** — Enhances blending as the solution passes through.

PART #: HYKMC34



**Monitor Kit** — Includes a special in-line nutrient monitor that measures and displays your well-blended outgoing solution.

PART #: HYKMON



**Water Hammer Arrestor Kits** — Used to prevent the potential damaging effects of water hammer, protecting your system components.



### WATER HAMMER ARRESTOR KITS

PIPE SIZE	DESCRIPTION	PART #
3/4"	3/4" MPT X 6 1/2" TALL	WHA34-SS-KIT
1"	1" MPT X 6 15/16" TALL	WHA100-SS-KIT
1 1/2"	1" MPT X 10 9/16" TALL	WHA150-SS-KIT
2"	1" MPT X 11 3/16" TALL	WHA200-SS-KIT

# HYDROPONICS

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# SPECIFICATIONS

MODEL	MAX. FLOW RATE	MAX. CLICKS IN 15 SECONDS	FLOW RANGE	PRESSURE RANGE	RATIOS	PERCENT
D14MZ520	9 GPM	31	0.05 - 9 GPM	7 - 57 PSI	1:20 - 1:5	5% - 20%
<b>D25F1</b>	<b>11 GPM</b>	<b>46</b>	<b>0.05 - 11 GPM</b>	<b>4.3 - 85 PSI</b>	<b>1:100 fixed</b>	<b>1% fixed</b>
D25RE2	11 GPM	46	0.05 - 11 GPM	4.3 - 85 PSI	1:500 - 1:50	0.2% - 2%
D25RE09	11 GPM	46	0.05 - 11 GPM	4.3 - 85 PSI	1:1000 - 1:112	0.1% - 0.9%
<b>D14MZ2</b>	<b>14 GPM</b>	<b>49</b>	<b>0.05 - 14 GPM</b>	<b>4.3 - 85 PSI</b>	<b>1:500 - 1:50</b>	<b>0.2% - 2%</b>
D14MZ10	14 GPM	49	0.05 - 14 GPM	7 - 85 PSI	1:100 - 1:10	1% - 10%
D14MZ1000	14 GPM	49	0.05 - 14 GPM	4.3 - 85 PSI	1:1000 - 1:100	0.1% - 1%
D14MZ3000	14 GPM	49	0.05 - 14 GPM	4.3 - 85 PSI	1:3000 - 1:333	0.03% - 0.3%
<b>D45RE15</b>	<b>20 GPM</b>	<b>45</b>	<b>0.4 - 20 GPM</b>	<b>7 - 70 PSI</b>	<b>1:500 - 1:66</b>	<b>0.2% - 1.5%</b>
<b>D40MZ2</b>	<b>40 GPM</b>	<b>36</b>	<b>2.2 - 40 GPM</b>	<b>4.3 - 116 PSI</b>	<b>1:500 - 1:50</b>	<b>0.2% - 2%</b>
D40MZ3000	40 GPM	36	2.2 - 40 GPM	4.3 - 116 PSI	1:3000 - 1:500	0.03% - 0.2%
D40MZ1000	40 GPM	36	2.2 - 40 GPM	7.2 - 116 PSI	1:1000 - 1:100	0.1% - 1%
D40MZ5	40 GPM	36	2.2 - 40 GPM	7.2 - 116 PSI	1:100 - 1:20	1% - 5%
<b>D20S</b>	<b>100 GPM</b>	<b>36</b>	<b>5 - 100 GPM</b>	<b>2 - 120 PSI</b>	<b>1:500 - 1:50</b>	<b>0.2% - 2%</b>
D132MZ1	132 GPM	46	35.2 - 132 GPM	7 - 87 PSI	1:1,000 - 1:100	0.1% - 1%
D132MZ30000	132 GPM	46	35.2 - 132 GPM	7 - 87 PSI	1:30,000 - 1:3,000	0.003% - 0.03%
D132MZ5000	132 GPM	46	35.2 - 132 GPM	7 - 87 PSI	1:5,000 - 1:500	0.02% - 0.2%



Scan for  
Service/Maintenance  
Videos

# MICRO-DOSER SYSTEMS

The Etatron eOne Ultrasonic Micro-Doser can accurately inject super-concentrated products and can be integrated into an existing fertigation system. The Micro-Doser is able to hit target rates of many high-value products on the market.

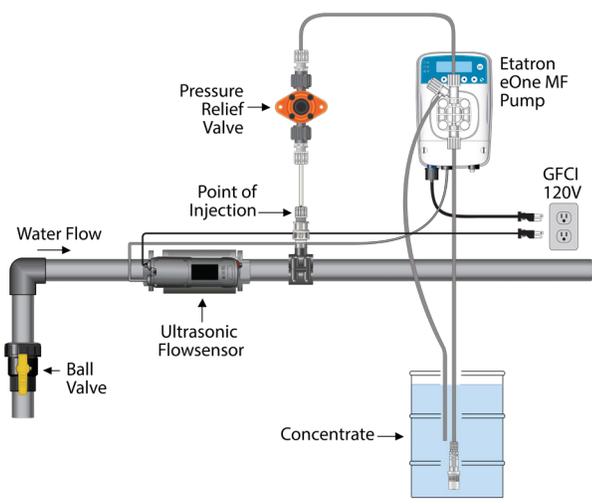
These kits can work in combination with a Dosatron Water-Powered Nutrient Delivery System, or as a stand-alone solution, to provide the ultimate in reliability and functionality in one system.

- Applications include dosing acids (pH down), caustics (pH up), plant health additives, and water treatment products
- Ability to micro-dose down to 0.1 mL per gallon, depending on the flow rate

## 1. LO-FLO & HI-FLO ULTRASONIC ACID-DOSING SYSTEMS

	Item Number	Description
	MDE0110MF.75KITUS	Lo-Flo Ultrasonic Micro-Doser Kit Etatron eOne Kit w/ Flow Sensor & Pressure Relief Valve Connections - 3/4" NPT
	MDE0607MF1.5KITUS	Hi-Flo Ultrasonic Micro-Doser Kit Etatron eOne Kit w/ Flow Sensor & Pressure Relief Valve Connections - 1 1/2" NPT

## 2. MEGA-FLO ACID-DOSING SYSTEMS

	Item Number	Description
	MDE0710MF2KITUS	Mega-Flo Etatron eOne Kit w/ Flow Sensor & Pressure Relief Valve. 2" NPT
	MDE1012MF2.5KITUS	Mega-Flo Etatron eOne Kit w/ Flow Sensor & Pressure Relief Valve. 2 1/2" NPT
	MDE2007MF3KITUS	Mega-Flo Etatron eOne Kit w/ Flow Sensor & Pressure Relief Valve. 3" NPT
	MDE3005MF4KITUS	Mega-Flo Etatron eOne Kit w/ Flow Sensor & Pressure Relief Valve. 4" NPT

# HYDROPONICS

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For higher flow systems with a max of 100 - 400 GPM. The Mega-Flo Acid-Doser kit gives you the capability to inject:

- Water Treatment Products
- Acids
- Plant Health Additives
- Bases

The system proportionally injects directly into the water line using an Ultrasonic Flow Meter.

SYSTEM FEATURES	
Easy to read digital display	Designed for simple installation
Proportionally injects into variable flow rates	PVDF wetted parts, high chemical resistance
Minimizes spills and employee exposure	Ultrasonic Sensor calculates flow from outside of the water line
Simple to program and adjust	Multi-directional

### SELECT YOUR SYSTEM:

1. Select the chemical
2. Verify where to inject the chemical
3. Verify the Pipe Diameter - System designed for PVC
4. Validate pipe Flow Rate and Pressures
5. Verify Power Source for two 120V plugs
6. Designed to deliver up to 3.5 ounces of chemical per 100 gallons of water for each pipe size

PIPE SIZE	2"	2-1/2"	3"	4"
FLOW RATE	100 GPM	150 GPM	200 GPM	400 GPM

### SYSTEM INCLUDES:

1. eOne Pump with acid-resistant wetted parts
2. Chemical Suction and Injection Kit
3. Ultrasonic Flow Meter to be mounted ON the PVC pipe
4. Plumbing Saddle to be mounted ON the PVC pipe (requires a hole drilling)
5. Pressure Relief Valve for injection rate control and siphoning protection
6. Installation Instructions illustrated step by step
7. Instructions on chemical injection calculation to meet acid dosing requirements
8. Programing Instructions illustrated step by step
9. Customer Support



Scan for  
Service/Maintenance  
Videos



100 GPM

Installed  
in Parallel



20 GPM

Mounted  
on Booms



40 GPM

Mounted on  
a wall /  
bench / cart



**DOSATRON**<sup>®</sup>

An Ingersoll Rand Business

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