

The image shows two identical MixRite water driven injectors, each mounted on a white tripod. The injectors are primarily white with blue accents. They feature a top reservoir, a central mixing chamber with a blue handle, and a bottom outlet with a white hose. The hoses are coiled and hang from the bottom of the units. The background is plain white.

MixRite Water Driven Injectors Training

Agenda

- Review the DEMA MixRite offering
- Help you understand how MixRites work and their value proposition
- Define their features and benefits
 - Versus venturi and other proportioning systems
 - Versus competitive systems
- Review marketing, sales and support tools

MixRite Installation Jordan Valley, Israel



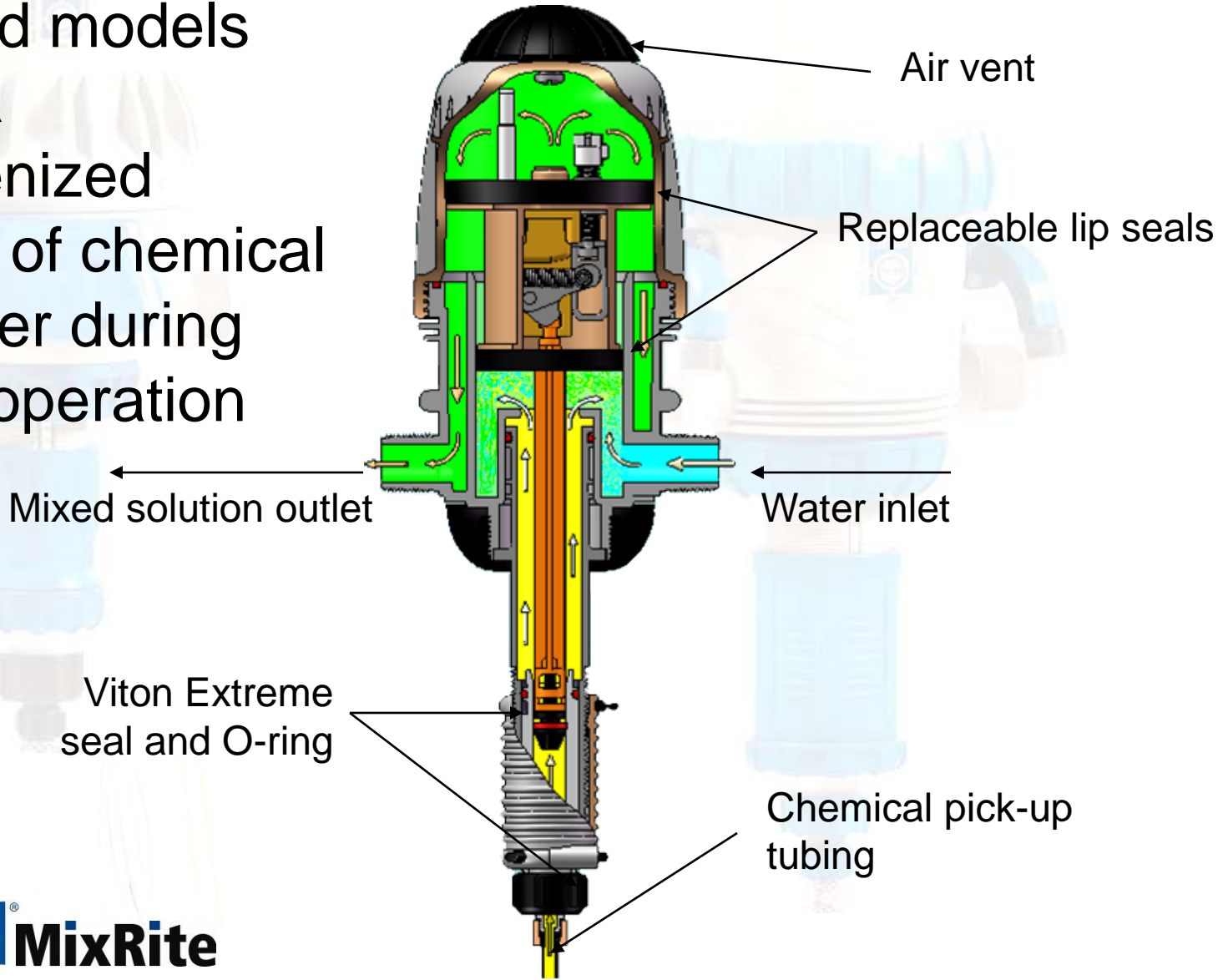
MixRite

Water Driven Injectors

- Operate without electricity using water pressure as the power source.
- Inject a proportional amount of fertilizer or additive into the water line regardless of pressure variations
- Maximum dilution variance is less than 10%
- Extremely low pressure loss compared to other systems
 - 2.5 / 500 Series, maximum loss 15 PSI
 - TF5, 10 and 25 – maximum loss 11.5 PSI
- 10 to 25% more flow than competitive models

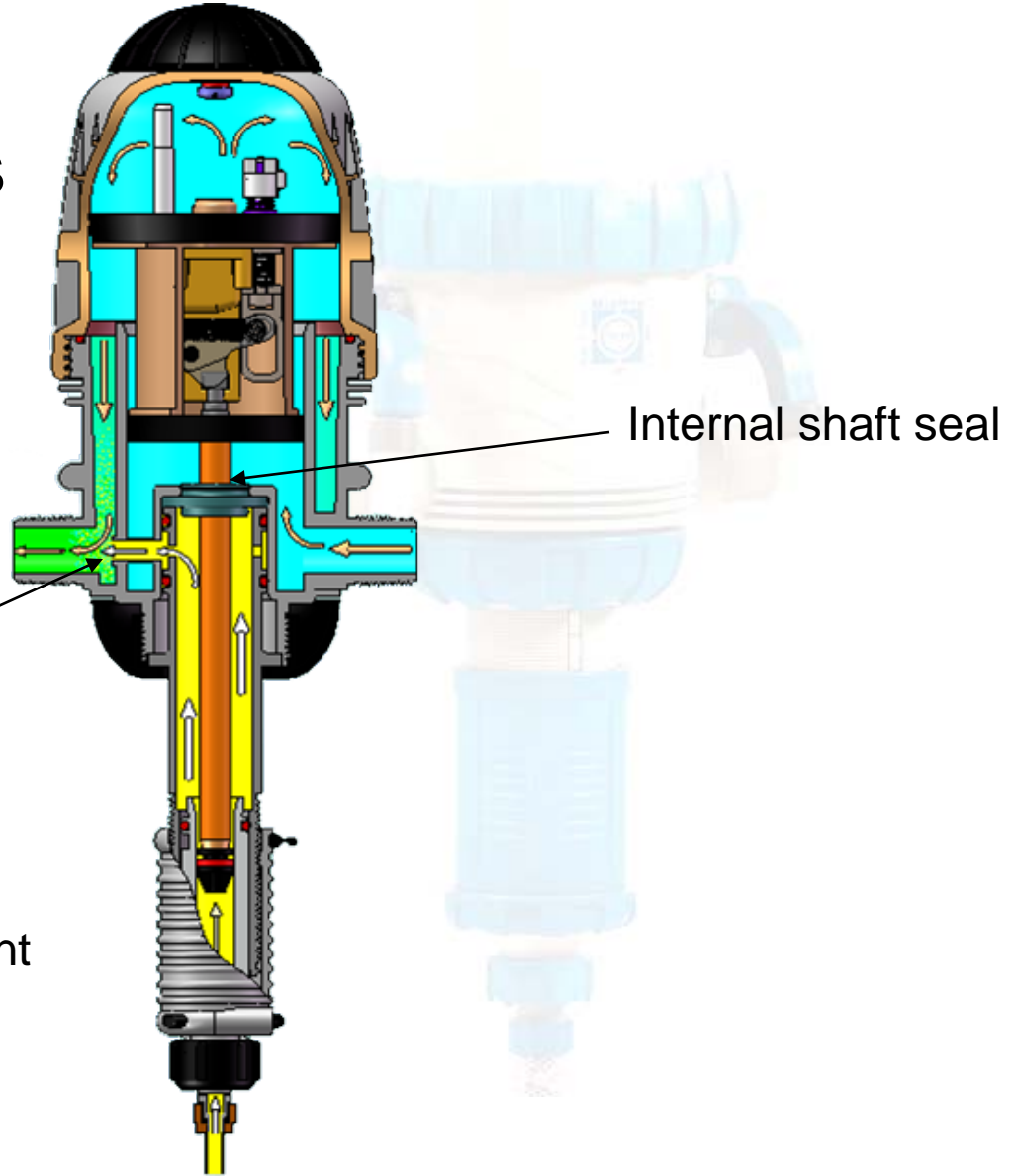
MixRite 500 Series

Standard models create a homogenized solution of chemical and water during normal operation



MixRite 500 Series Internal Bypass

Used for the most aggressive chemicals that attack springs, screws, o-rings and other vulnerable materials



Chemical injection point
Water and chemical are **not** a homogenized solution at this point

Additional Benefits & Selling Features

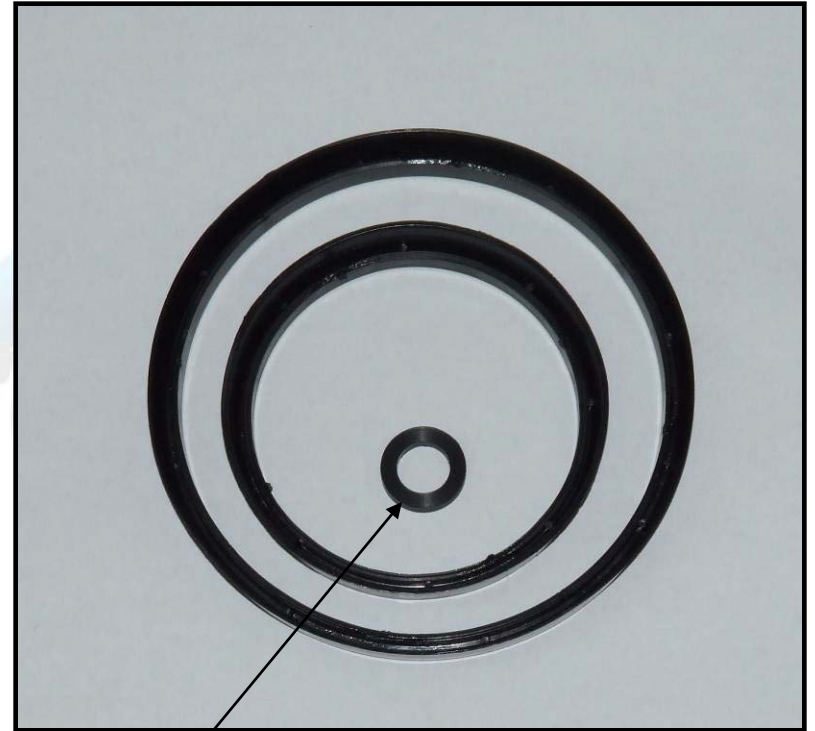
- Manual or electric ON/OFF available on all systems
- Internal bypass on the engine system
- PulseRite cycle counter
- Units manufactured and designed with components for high chemical resistance
 - PVDF models for sulfuric acid and other very aggressive chemicals
 - Purple sleeve models for chlorine and mild acids
 - Bypass units minimize chemical contact with pump components

Additional Benefits & Selling Features





- Durable body and cover made from Nylon12 reinforced with 30% Fiberglass
- Suction seal made from Viton Extreme rubber
- Engine lip seals made from Nylon12 + Teflon
- Hastelloy springs in suction check valve for special models
- Suction cylinder made from HDPE
- Built-in ribs in the suction cylinder avoids over-dosing damage
- Suction filter made from chemical resistant Polypropylene
- Bigger additive openings in the suction check valve

Lip Seal Kit

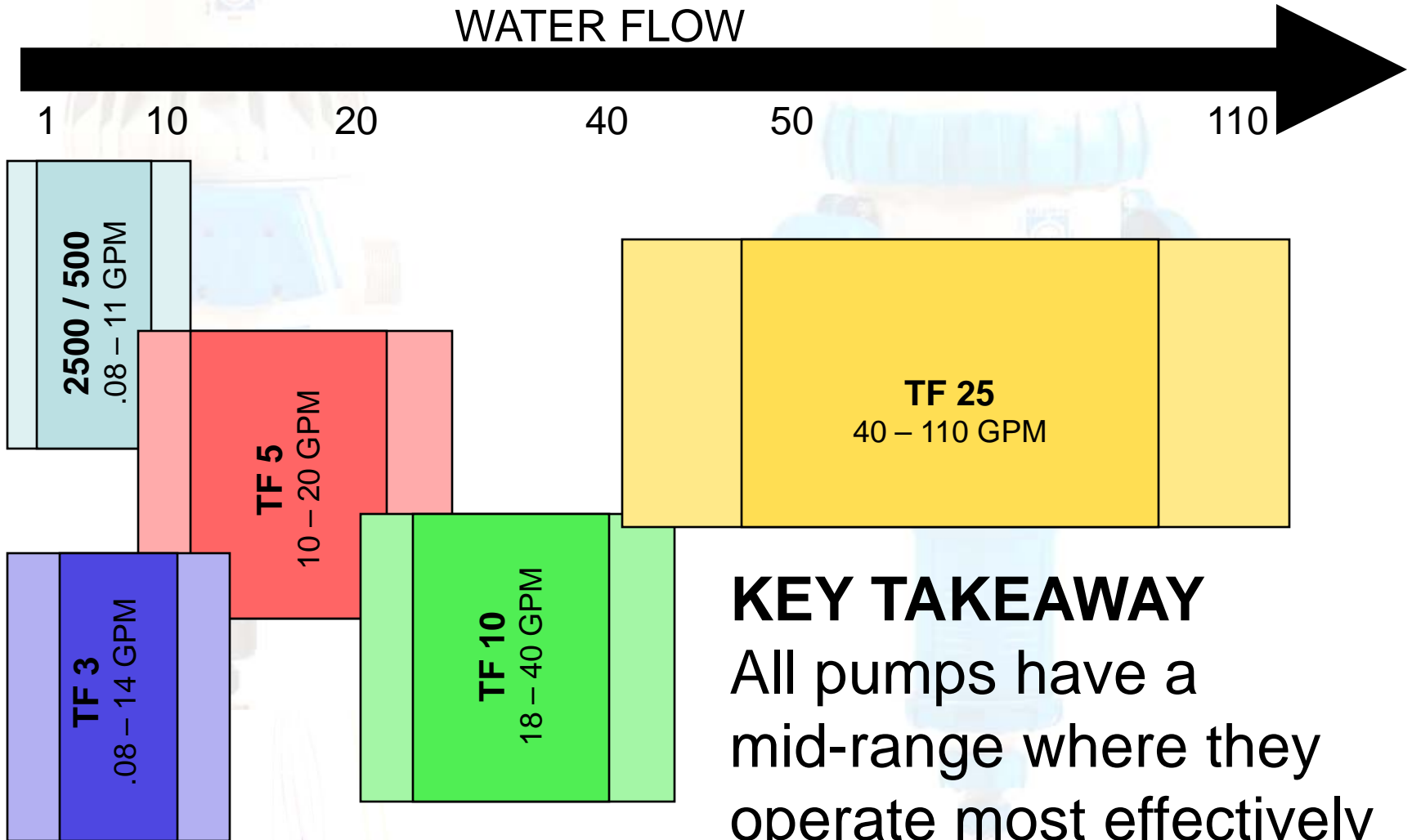
All units ship with a free lip seal kit and chemical piston seal



MixRite Model Range

	Model	Chemical Injection Rate	Water Pressure	Water Flow
	2.5 / 500 Series & TF3	0.1 – 10%	3 – 120 PSI	0.08 – 14 GPM
	TF5	0.1 – 5%	15 – 120 PSI	0.9 – 22 GPM
	TF10	0.1 – 5%	15 – 120 PSI	2.2 – 44 GPM
	TF25	0.1 – 5%	15 – 120 PSI	2.2 – 44 GPM

Choosing the Rite MixRite



MixRite 2.5 / 500 Series

- Delivers 2.5 cubic meters per hour or approx. 11 GPM
- Operates most efficiently at 1 to 10 GPM
- Has $\frac{3}{4}$ " thread connections
- Chemical injection rates
 - .1% to 1%, .3% to 2%,
.4% to 4% and 3% to 10%
- Special models for harsh chemicals



2.5 / 500 Series CL Models

- CL models identified by purple sleeve
- Designed to withstand chlorine and mild acids
- All upper seals made from Viton Extreme
- Check Valve seals made from Aflas
- All Hastelloy Springs



2.5 / 500 Series PVDF Models

- PVDF models have white body
- Designed to eliminate potential chemical attack of body from sulfuric acid
- All upper seals made from Viton Extreme
- Check Valve seals made from Aflas
- All Hastelloy Springs and PVDF components



571 Green

- Designed for residential use
- Fixed dosage of .2%
- For fertilizer only
- Delivers 2.5 cubic meters per hour or approx. 10 GPM
- Operates most efficiently at less than 10 GPM
- Has 3/4" thread connections



MixRite TF 5

- Delivers 5 cubic meters per hour or approx. 22 GPM
- Operates most efficiently at 10 to 20 GPM
- Has 1" thread connections
- Chemical injection rates
 - .1% to 1%, .2% to 2%, and 1% to 5%



MixRite TF 10

- Delivers 10 cubic meters per hour or approx. 45 GPM
- Operates most efficiently at 18 to 40 GPM
- Has 1.5" thread connections
- Chemical injection rates
 - .1% to 1%, .2% to 2%,
and 1% to 5%



MixRite TF 25

- Delivers 25 cubic meters per hour or approx. 110 GPM
- Operates most efficiently at 40 to 110 GPM
- Has 2" thread connections
- Chemical injection rates
 - .1% to 1%, .3% to 2.5%, and 1% to 5.5%



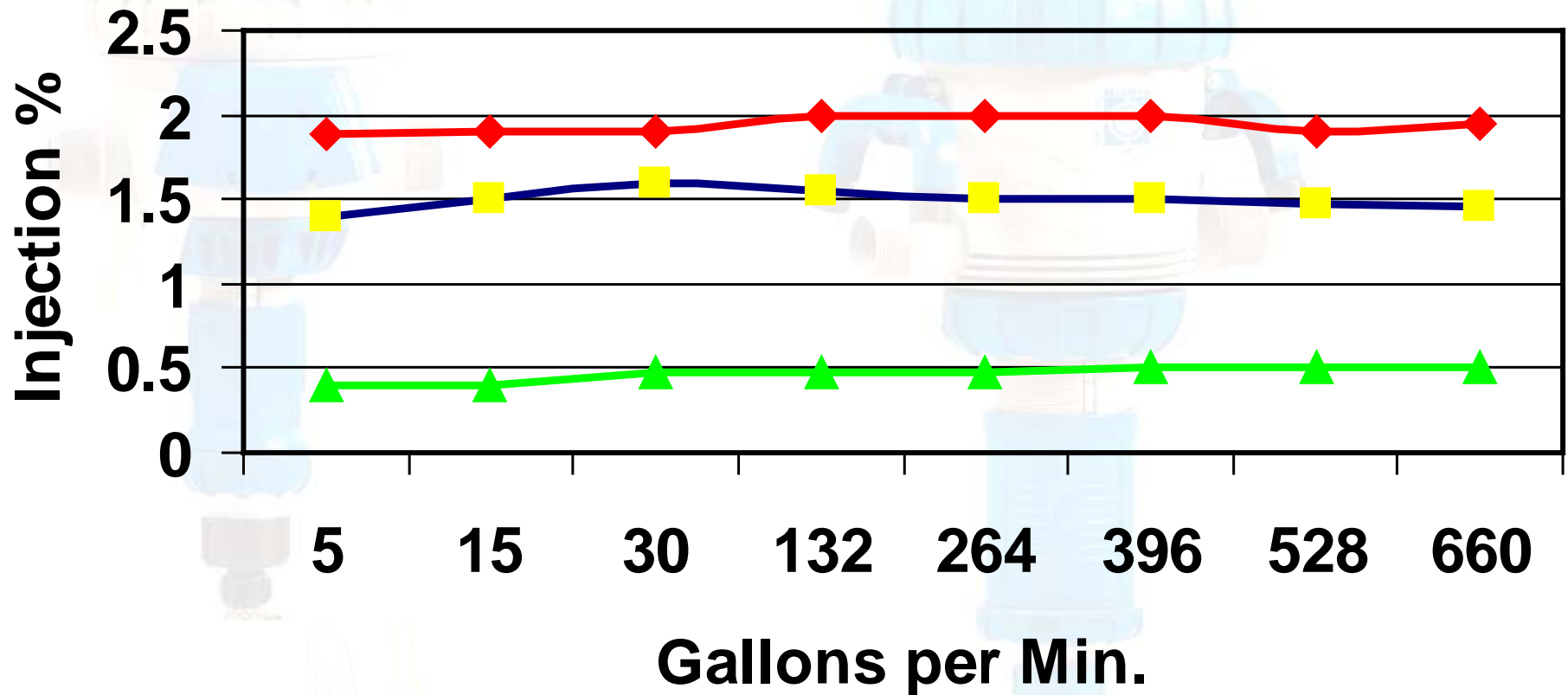
MixRite AgroRite

- Water treatment unit designed for aggressive additives
 - For acid **or** chlorine **or** hydrogen peroxide
- Delivers 25 cubic meters per hour or approx. 110 GPM
- Operates with minimum flow of 23 GPM and maximum 110 GPM
- Has 2" thread connections
- Chemical injection rates
 - .1% to 1%, .3% to 2%, .4% to 4%, and 3% to 10%



Injection % Across Varying Water Flow

570 / 571 Injection Rates



Comparison To Other Injectors

	Electric Req.	Price	Operation	Accuracy	Installation	Comments
MixRite	No	Moderate	Simple	Good	Simple	Proportional
Non-proportional Hydraulic Injectors	No	Moderate	Simple	Poor	Medium	Water is wasted
Venturi	No	Low	Simple	Poor	Simple	High pressure loss
Venturi + Electronic Controller	Yes	High	Difficult to operate	Good	Difficult	Expensive

Competitive Review

Compared to Dosatron and Dosamatic, MixRite's are

- Easier to maintain & operate
- Better chemical resistance
- Better U.V resistance
- Better value for the price
- Lower spare parts pricing



Competitive Review

MixRite	Dosatron	Dosmatic
570CW/571CW	D25RE2	Mini Dos -1%
570CW/571CW (up to 4%)		Mini Dos -5%
572CW/573CW (up to 4%)	D25RE5	
572CW/573CW		Mini Dos -2.5%
570CW/57-11-1 Tip Kit		Mini Dos -0.4%
570CL/571CL with 57-11-1 Tip Kit	D25RE09	
570CL/571CL with 57-11-1 Tip Kit	D25RE1500	
569	DM11F	
569	D25F	
570CL/571CL with 57-11-1 Tip Kit	DI 1500	
574CL/575CL	D14MZ2-14GPM	Mini Dos -10%
TF-5-005	D45RE15-20GPM	SuperDos 20 -5%
TF-5-005 (up to 5%)	D45RE3000-20GPM	
TF-5-002		SuperDos 20 - 2.5%
TF-5-001	D8R-40GPM	
TF-10-002		SuperDos 45 -2.5%
TF-10-005	D20S-100GPM	SuperDos 45 -5%
TF-25-002		TurboDos 100-0.1%

Three Questions Are All You Need Answered



Three Questions

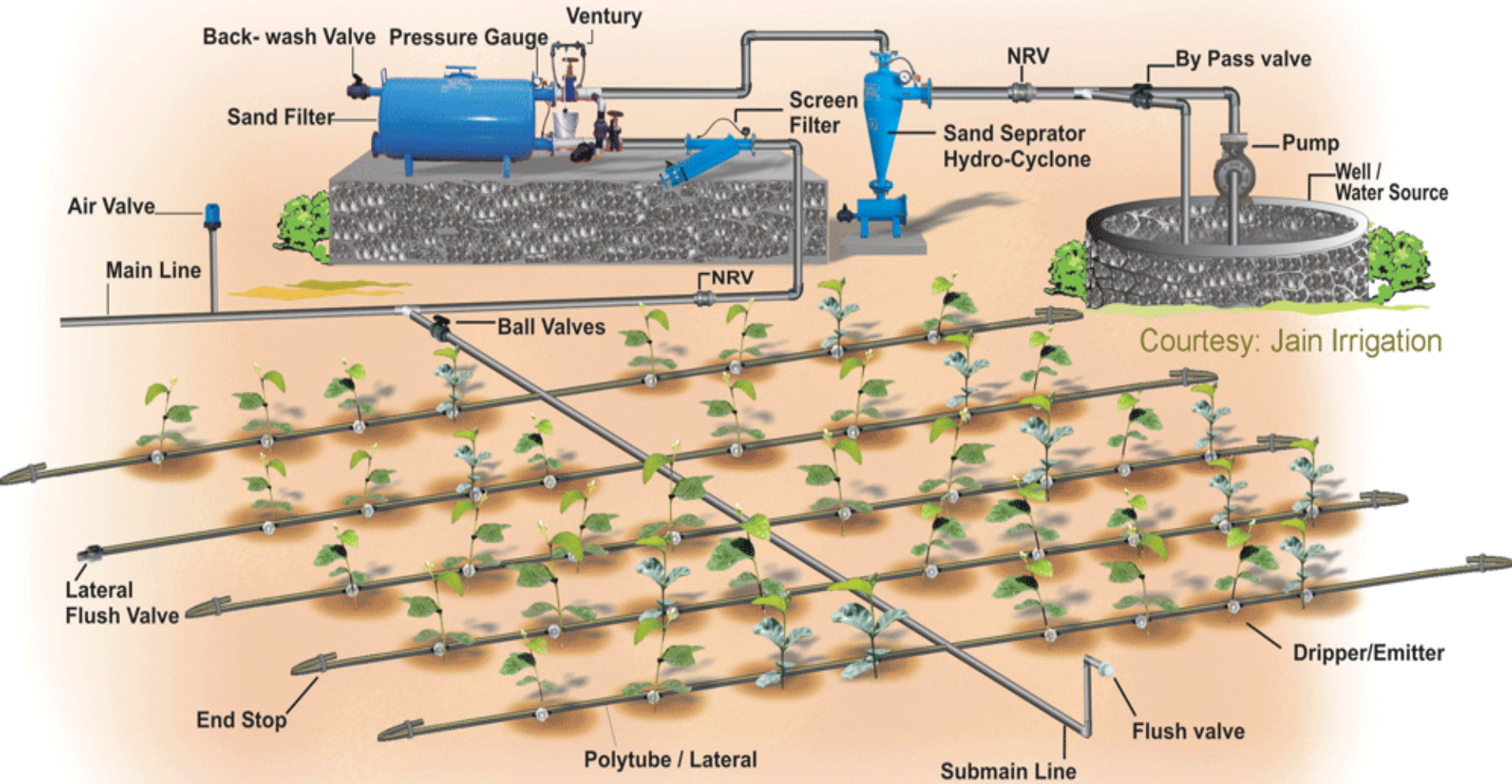
- What is the water flow and pressure through the system?
- What percentage of chemical do you want?
- Is the chemical corrosive?

Installations

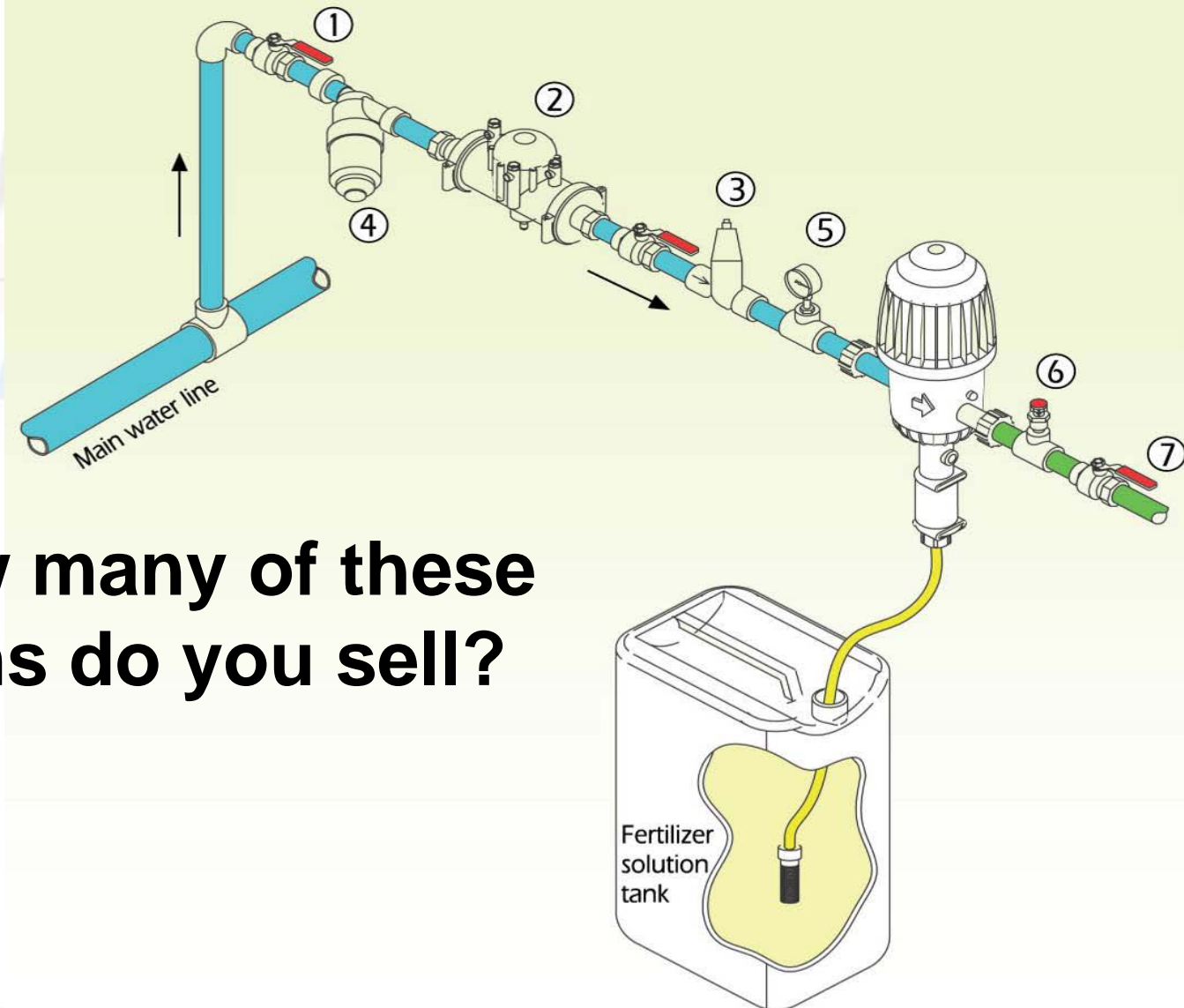
What does an installation look like and what's important to understand.



Drip Irrigation Installation

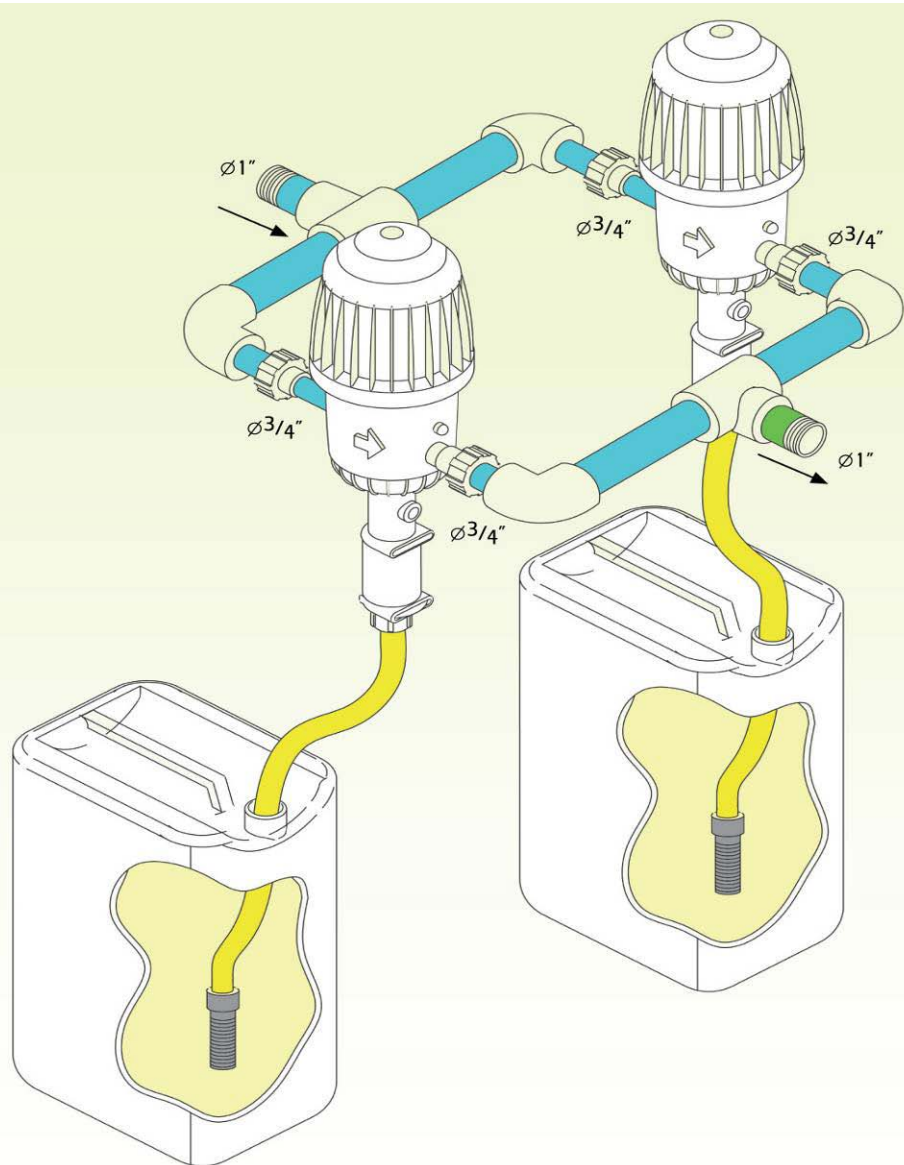


Typical In-line Installation

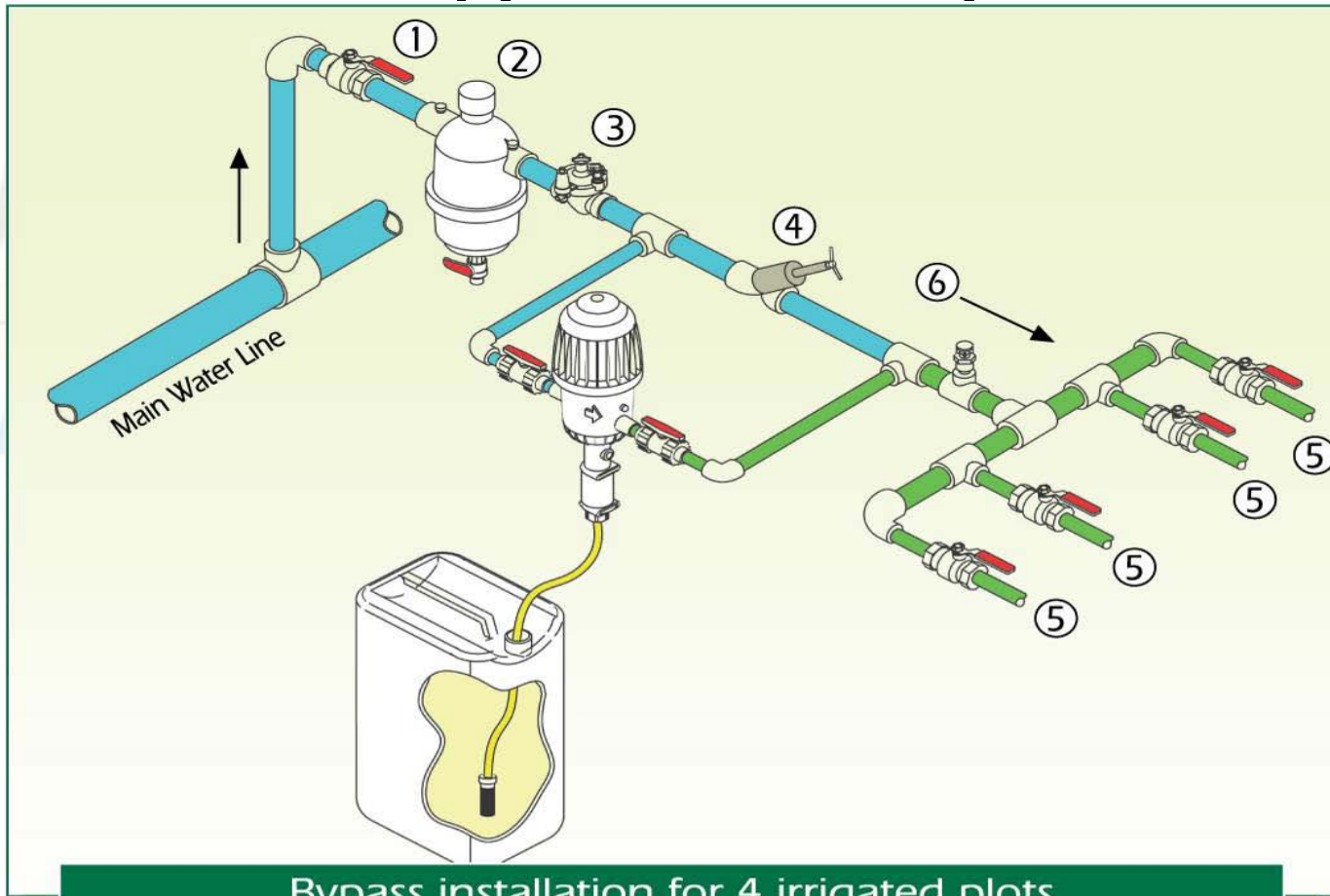


How many of these items do you sell?

Parallel Installation



Bypass Loop

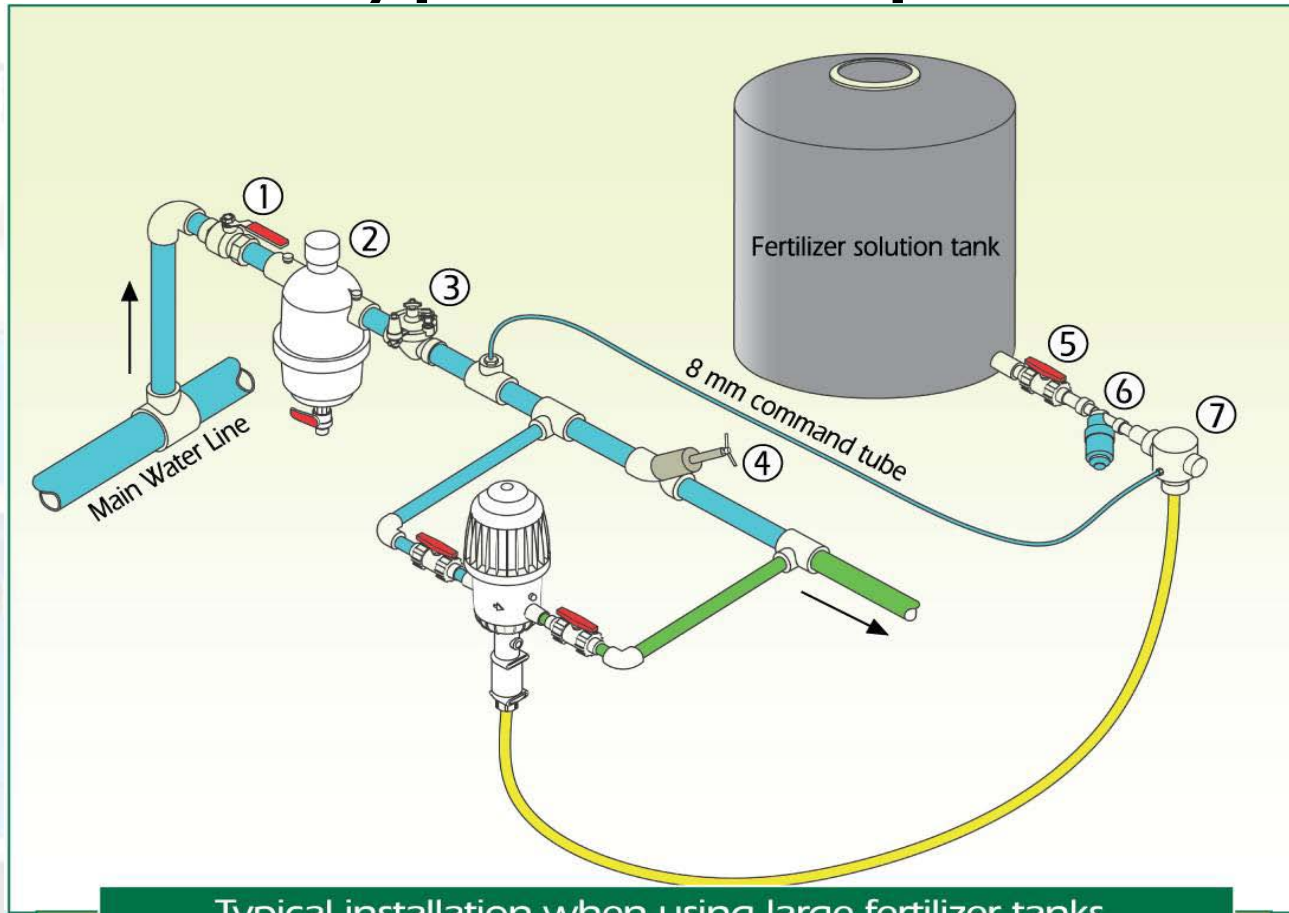


Bypass installation for 4 irrigated plots

1. Main Valve
2. Filter -130 micron minimum
3. Pressure reducing valve

4. Chocking Valve
5. Operate valve
6. Anti siphon valve

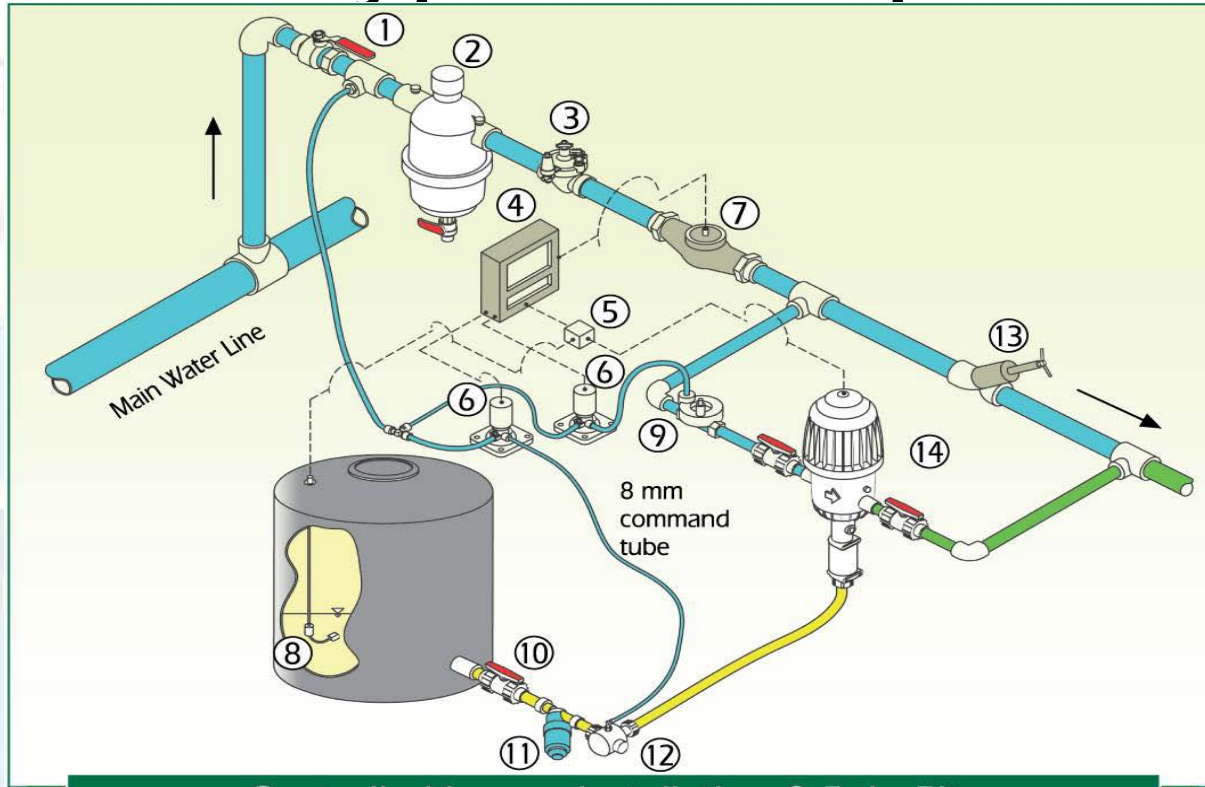
Bypass Loop



Typical installation when using large fertilizer tanks

- | | |
|--------------------------------|--|
| 1. Main Valve | 5. PVC fertilizer valve |
| 2. Filter - 130 micron minimum | 6. Fertilizer filter |
| 3. Pressure reducing valve | 7. Normally close hydraulic fertilizer valve |
| 4. Chocking Valve | |

Bypass Loop



Controlled bypass installation & PulseRite

- | | |
|---------------------------------|--|
| 1. Main valve | 9. Normally close hydraulic valve |
| 2. Filter - 130 micron minimum | 10. 3/4" fertilizer proof PVC valve |
| 3. Pressure reducing valve | 11. 3/4" fertilizer proof filter |
| 4. Irrigation controller | 12. 3/4" fertilizer proof normally close valve |
| 5. PulseRite communication box | 13. Chocking valve |
| 6. Command solenoid valve | 14. PulseRite system |
| 7. Water meter + electric pulse | |
| 8. Fertilizer level float | |

Bypass Calculation

How to Calculate Volume per Click for % of Chemical

$$\frac{\text{GPM of Flow} \times \% \text{ of MixRite}}{\text{Total Flow through System}}$$

$\times 100 =$

% of Chemical in
Total Flow

$$\frac{110 \text{ GPM} \times .05}{1200 \text{ GPM}}$$

$\times 100 =$

.0045%

(Percent maximum Injection rate)

High Volume Fertigation



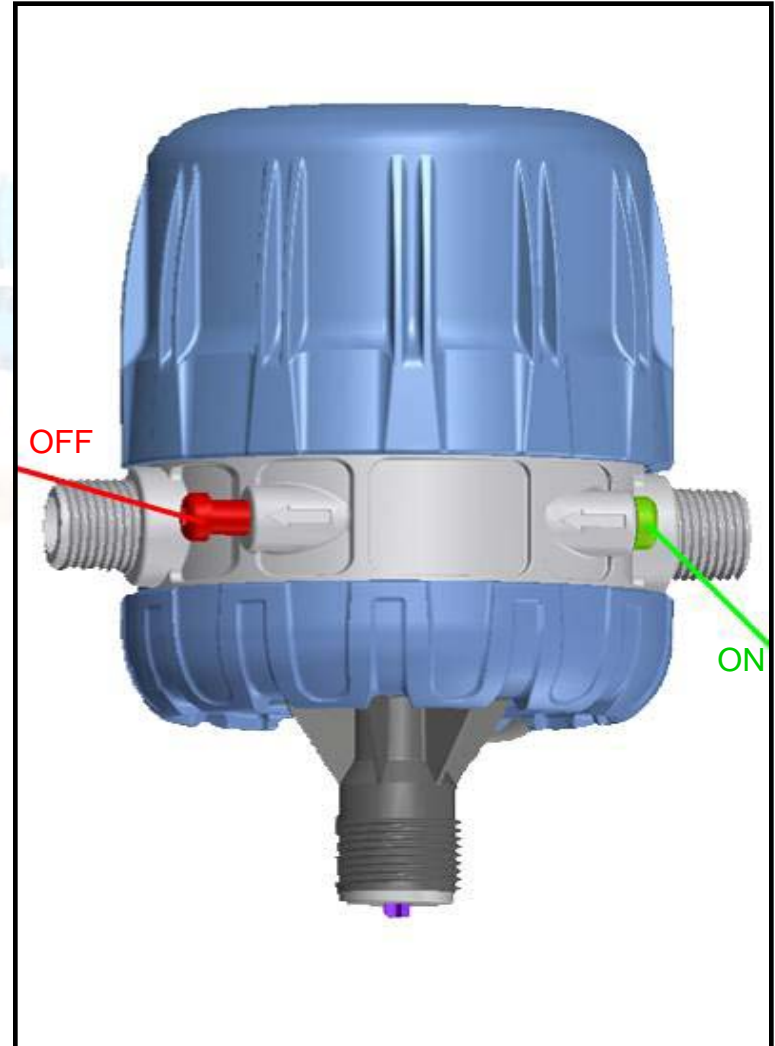
Introducing MixRite TF3

- New product introduced at Irrigation Association Show Dec, 2009
- Developed from customer request for the greenhouse market
 - Used extensively in landscaping
- Identical to 2.5 models except with 1” pipe threads
 - Most greenhouses have 1” piping and want added water flow



MixRite 1 - Coming 2011

- New engine design currently being field tested
- Smaller unit for extremely cost competitive situations
- Delivers 1 cubic meter per hour or approximately 4.4 GPM



Remote Control Injection

- MixRite exclusive
- Allows the irrigation controller to remotely control Fertigation by turning MixRite on or off when needed
- 24 VAC required



The image shows two identical MixRite water driven injectors, each mounted on a white tripod. The injectors are primarily white with blue accents. They feature a large white cylindrical tank at the top, a blue mixing chamber in the middle, and a blue injection nozzle at the bottom. A white flexible hose is attached to the bottom of each injector. The background is plain white.

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