



# MixRite<sup>TM</sup>

AGRICULTURE | HORTICULTURE | GREENHOUSE





**MixRite®**  
Fertilizer & Chemical  
injectors **are water  
driven only, with no  
other energy required**

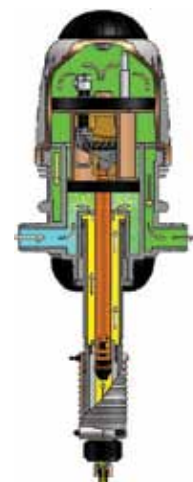
**MixRite® I n j e c t o r s**

**A step up from**

### **Application**

- Fertigation
- Water Treatment
- Supplementation
- Disinfection and Cleaning of
- Lines and Installations
- Fertigation for sprinkler systems
- Irrigation
- pH and EC control

### **Different Models**



**Standard  
Perfect Blending**



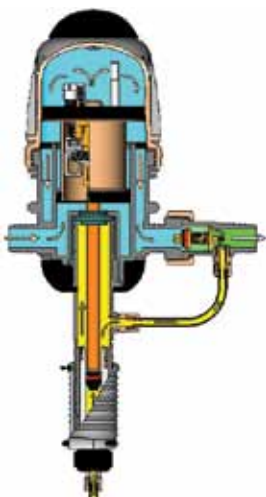


## How does it work?

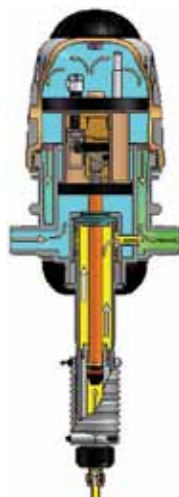
- Water driven, non-electric
- Piston driven by water flow
- Solution is added in proportion to water flow for accurate mixing
- Solution constantly added as water flows through unit
- Ratio of additive remains constant

# the past

## Different Methods



**External Bypass  
Chemical Resistant**



**Internal Bypass  
Chemical Resistant Compact**





# MixRite® Models

## TF-5

<b>TF-5-001:</b> Rate of additive: 0.1 - 1%
<b>TF-5-002:</b> 0.2 - 2%
<b>TF-5-005:</b> 0.5 - 5%
Water pressure: 1 - 8 bar (14.7 - 120 PSI)
Flow Rate: 0.2 - 5 m³/h (0.8 - 22 GPM)
Weight: 5 kg (11 pound)
Coupling: 1" or 32 mm
* Legs available upon special request

## TF-10

<b>TF-10-001:</b> Rate of additive: 0.1 - 1%
<b>TF-10-002:</b> 0.2 - 2%
<b>TF-10-005:</b> 1 - 5%
Water pressure: 1 - 8 bar (14.7 - 120 PSI)
Flow Rate: 0.5 - 10 m³/h (2 - 44 GPM)
Weight: 7.38 kg (16.27 pound)
Coupling: 1.5" or 50 mm
* Legs available upon special request

## TF-25

<b>TF-25-001:</b> Rate of additive: 0.1 - 1%
<b>TF-25-002:</b> 0.3 - 2.5%
<b>TF-25-005:</b> 1 - 5.5%
Water pressure: 1 - 8 bar (14.7 - 120 PSI)
Flow Rate: 2 - 25 m³/h (4.4 - 110 GPM)
Weight: 18.60 kg (41.00 pound)
Coupling: 2" or 63 mm
* Legs - Standard supply





**MixRite 2.5 0.3-2% (2502)**

Rate of additive: 0.3% to 2%
Water Pressure: 0.2 - 8 bar (2.9 - 120 PSI)
Flow rate: 20 - 2500 l/h (5.3 - 660 Gal/h)
Size: 56x18.5 cm (22" high x 7.27" wide)
Weight: 1.8 kg (4 pound)
Coupling: 3/4"

**MixRite 2.5 0.4-4% (2504)**

Rate of additive: 0.4% - 4%
Water Pressure: 0.2 - 8 bar (2.9 - 120 PSI)
Flow rate: 30 - 2500 l/h (8 - 660 Gal/h)
Size: 56x18.5 cm (22" high x 7.27" wide)
Weight: 1.8 kg (4 pound)
Coupling: 3/4"

**MixRite 2.5 6% Fix (2506)**

Fix Rate of additive: 6%
Water Pressure: 0.2 - 8 bar (2.9 - 120 PSI)
Flow rate: 40 - 2500 l/h (10 - 660 Gal/h)
Size: 56x18.5 cm (22" high x 7.27" wide)
Weight: 1.8 kg (4 pound)
Coupling: 3/4"

Manual  
ON/OFF



Manual  
ON/OFF



Manual  
ON/OFF



\*All models are supplied with a manual air release.  
The manual air release allows primary bleeding of air  
locked in the water supply lines.  
\*\*All models can be equipped with On-Off mechanism  
which will shut down additive injection,  
Allowing a continual water flow.



# MixRite® Models

## MixRite 3-10% (2510)

Rate of additive: 3 - 10%
Water Pressure: 0.2 - 8 bar (2.9 - 120 PSI)
Flow rate: 50 - 2500 l/h (13.3 - 660 Gal/h)
Weight: 3.1 kg (6.8 pound)
Coupling: 3/4"

## MixRite 0.2% Fix (2500)

Rate of additive: 0.2% fixed dosing
Water Pressure: 0.2 - 8 bar (2.9 - 120 PSI)
Flow rate: 20 - 2500 l/h (5.3 - 660 Gal/h)
Weight: 1.8 kg (4 pound)
Coupling: 3/4"

## MixRite 0.3-2%/0.4-4%/6% Fix - By Pass

Dosing By Pass Injector
Rate of additive: 0.3 - 2% / 0.4 - 4% / 6% fix
Water Pressure: 0.2 - 8 bar (2.9 - 120 PSI)
Flow rate: 100 - 2500 l/h (26 - 660 Gal/h)
Weight: 1.8 kg (4 pound)
Coupling: 3/4"
<b>Optional:</b> Internal By Pass



\*All models are supplied with a manual air release.  
The manual air release allows primary bleeding of air  
locked in the water supply lines.  
\*\*All models can be equipped with On-Off mechanism  
which will shut down additive injection,  
Allowing a continual water flow.





**CAUTION** All injectors must have a back-flow prevention valve installed on the inlet side of the injector according to local specifications.

### Chlorination Models\*

Water Pressure: 0.2 - 8 bar (2.9 - 120 psi)
Flow rate: 20 - 2500 l/h (5.3 - 660 Gal/h)
Weight: 1.8 kg (4 pound)
Coupling: 3/4"

### PVDF Models\*\*

Water Pressure: 0.2 - 8 bar (2.9 - 120 psi)
Flow rate from 20 - 2500 l/h (5.3 - 660 Gal/h)
Weight: 2 kg (4.4 pound)
Coupling: 3/4"

### AgroRite

#### 2" Water Treatment unit

**Water flow up to 25m<sup>3</sup>/h (110 gpm)**  
The system will allow all 3/4" MixRite units a true proportioning injection.  
Specially designed for aggressive additives.  
The system provides constant rate between 2" main line and 3/4" by pass line. (9:1)

Manual  
ON/OFF



\* **Optional:** Unique components are available for injecting active chlorine additives

Manual  
ON/OFF

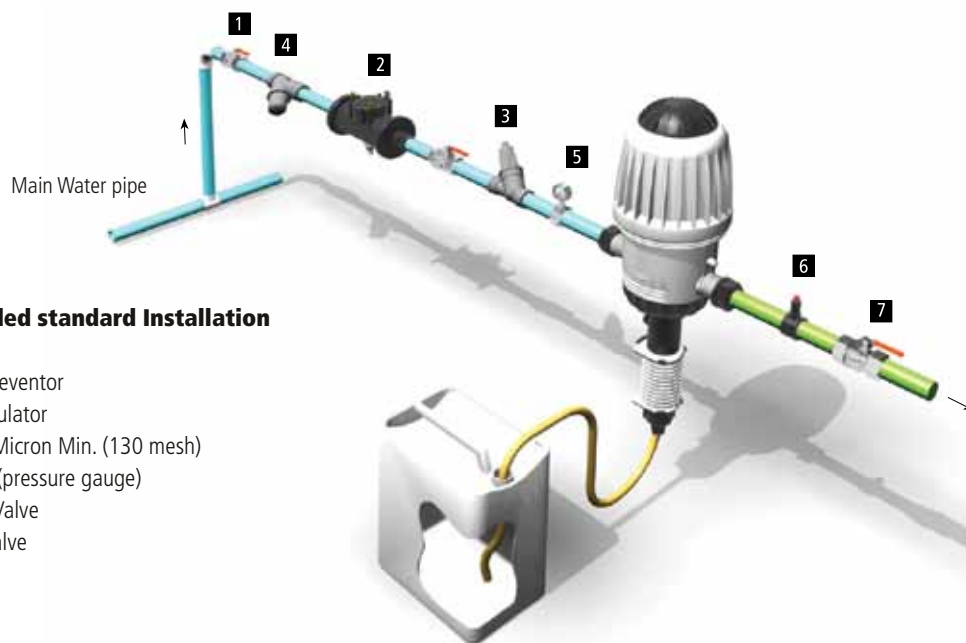


\*\* **Optional:** PVDF Body and Hastelloy components are available for very aggressive chemical applications



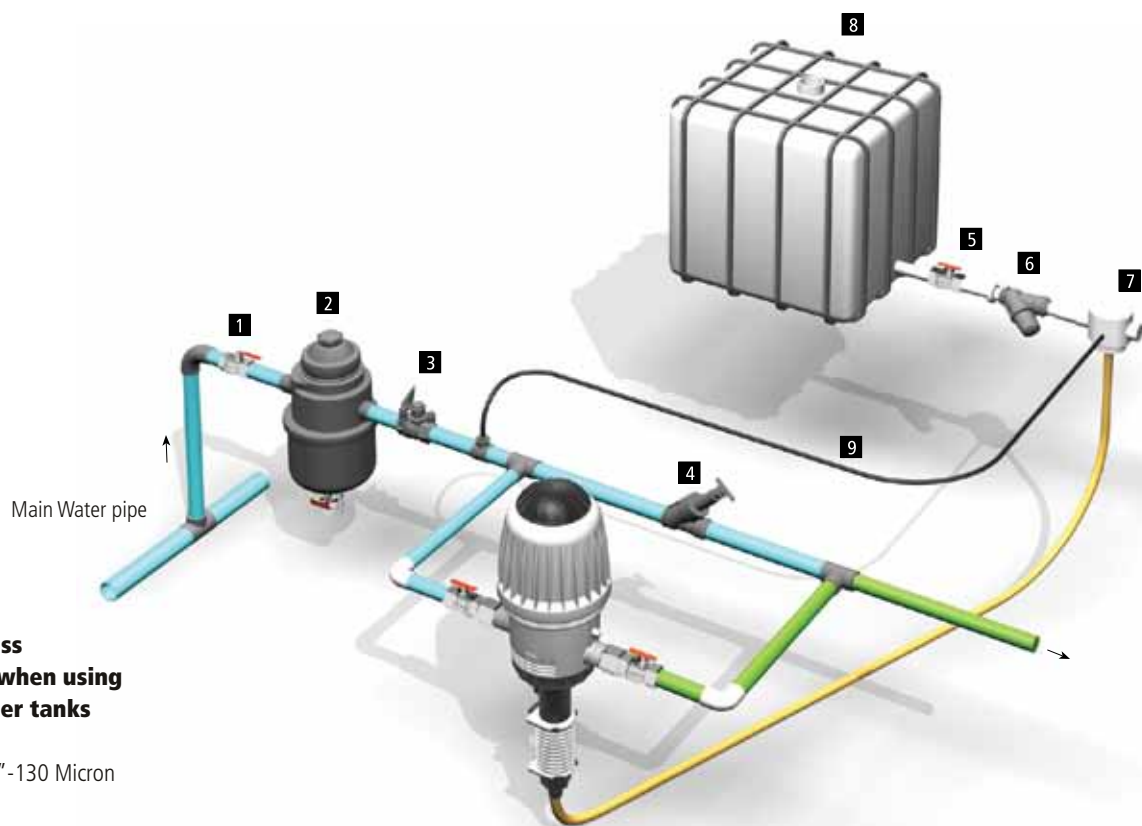


## Recommended installations



### Recommended standard Installation

1. Main Valve
2. Back flow preventor
3. Pressure regulator
4. Filter - 130 Micron Min. (130 mesh)
5. Manometer (pressure gauge)
6. Anti siphon Valve
7. Operation Valve



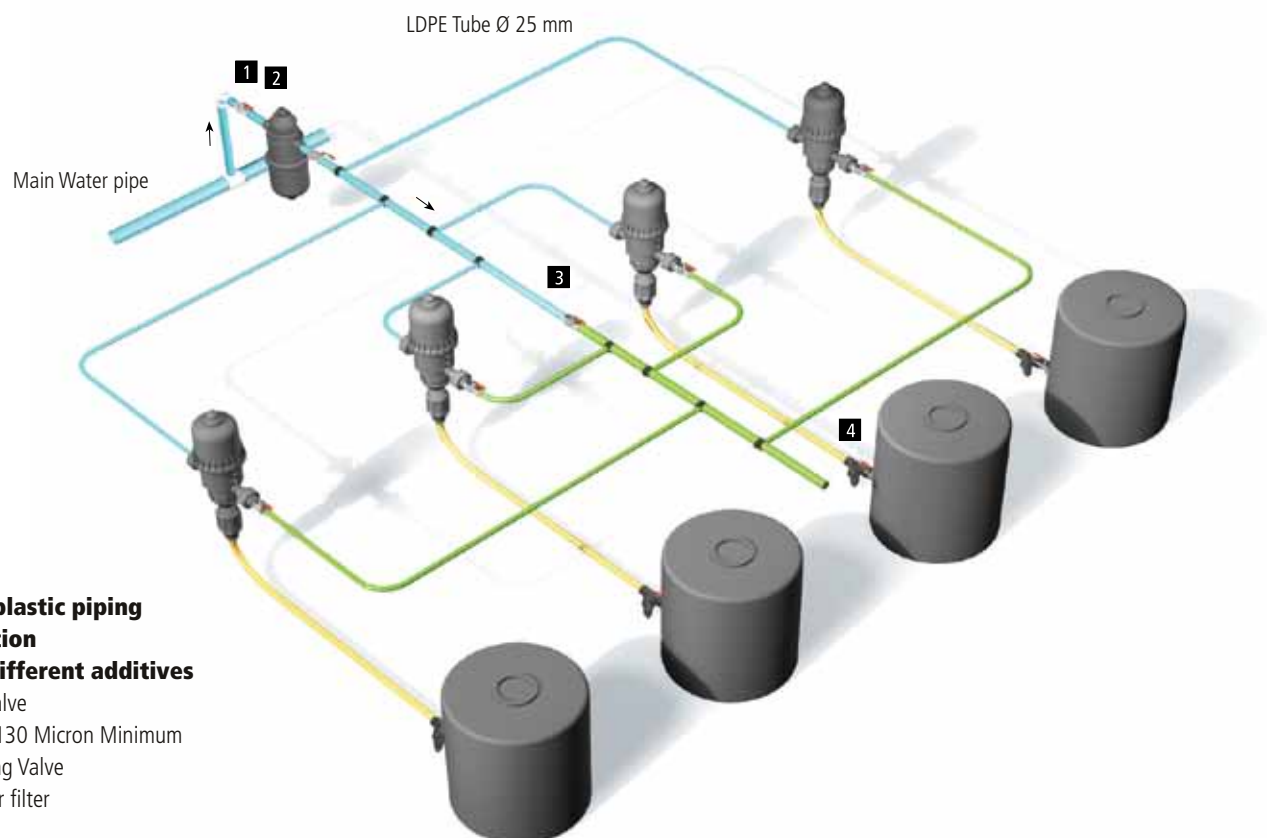
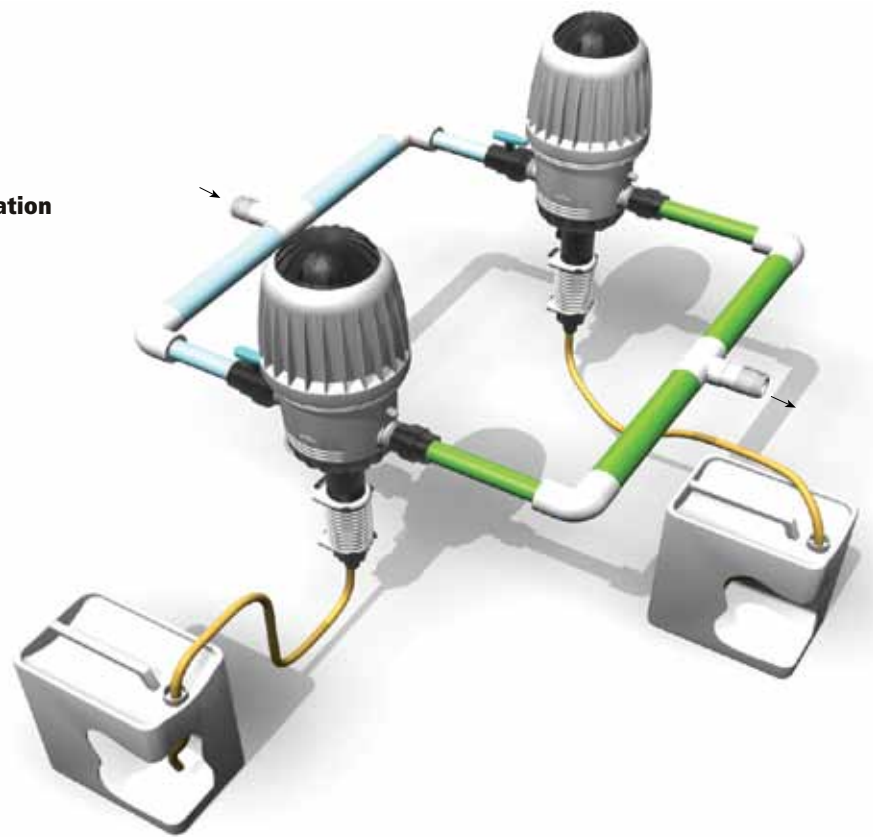
### Typical bypass installation when using large fertilizer tanks

1. Main Valve
2. Filter - Ø 3/4" - 130 Micron Min.
3. Pressure regulator
4. Choking Valve
5. PVC fertilizer Valve
6. Fertilizer Filter
7. Normally closed hydraulic Fertilizer Valve
8. Fertilizer solution tank
9. 5/16" command tube



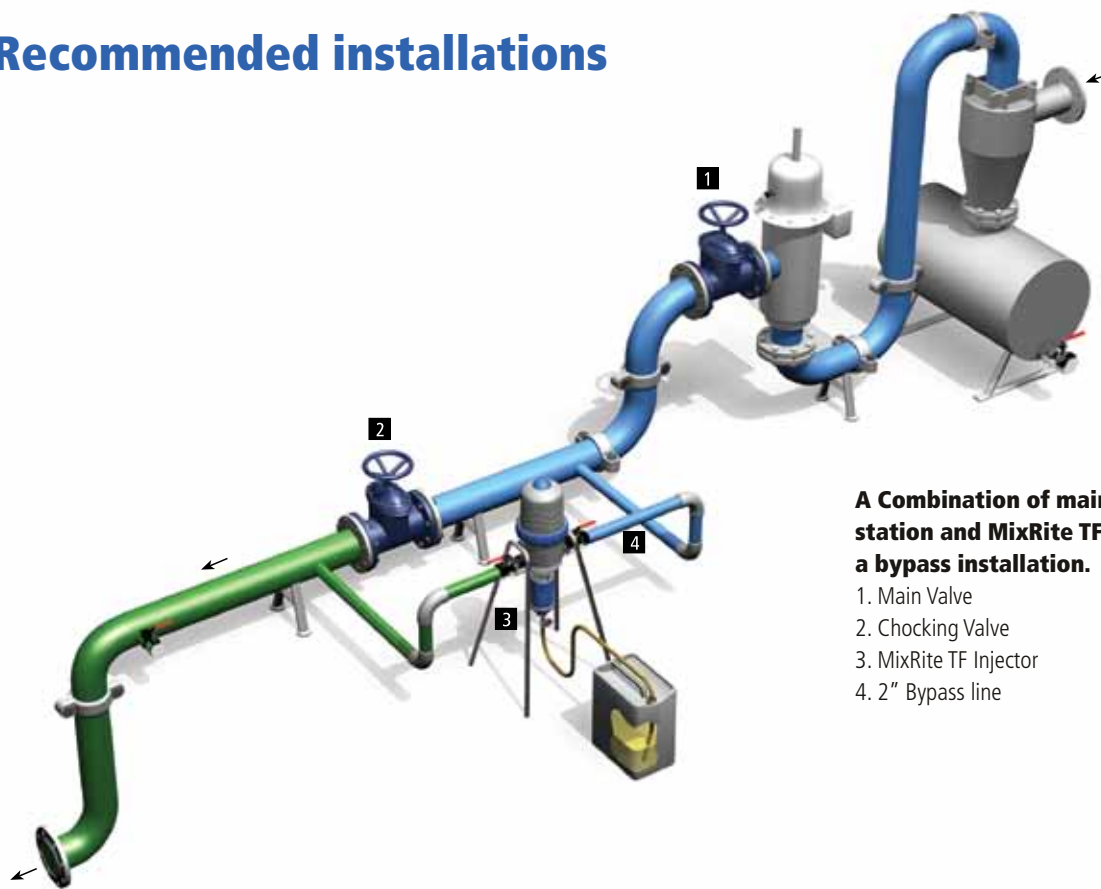


**DoRite  
Parallel installation**



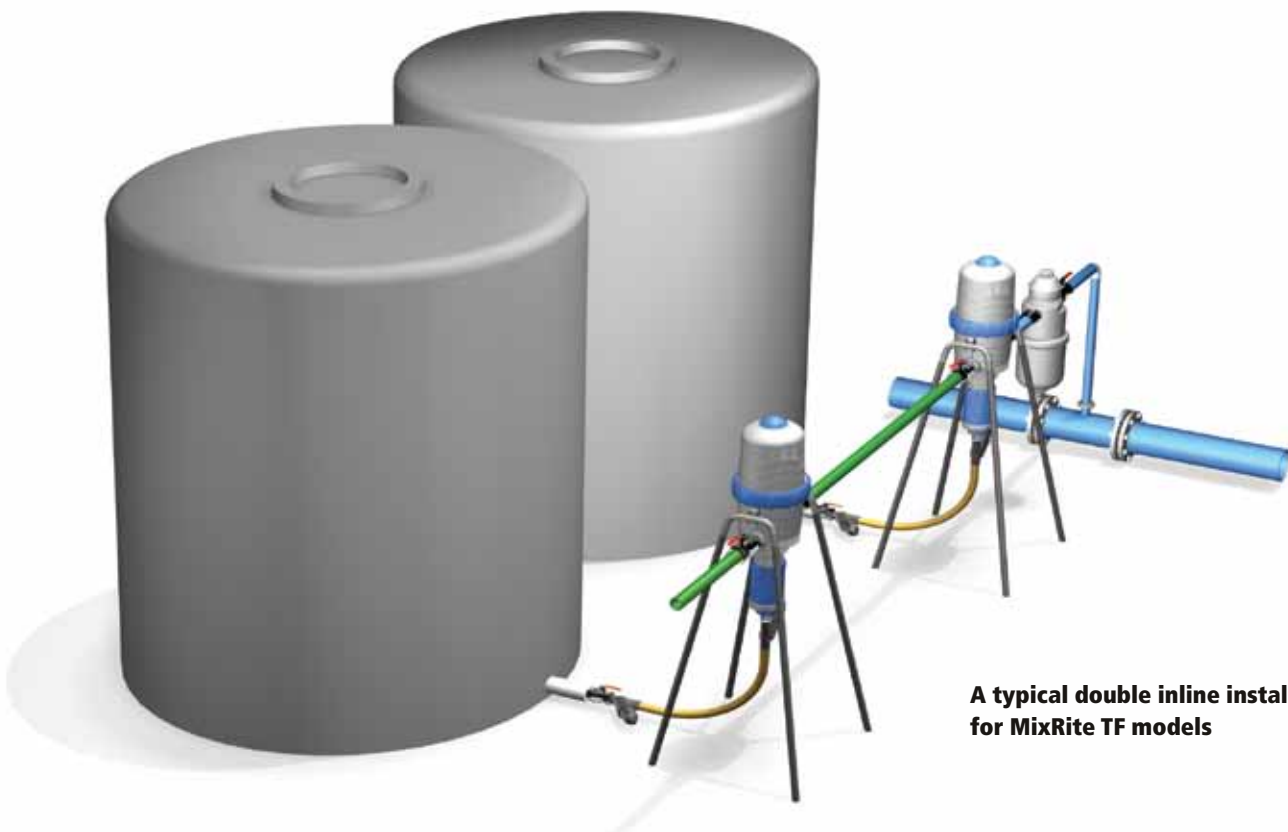


## Recommended installations

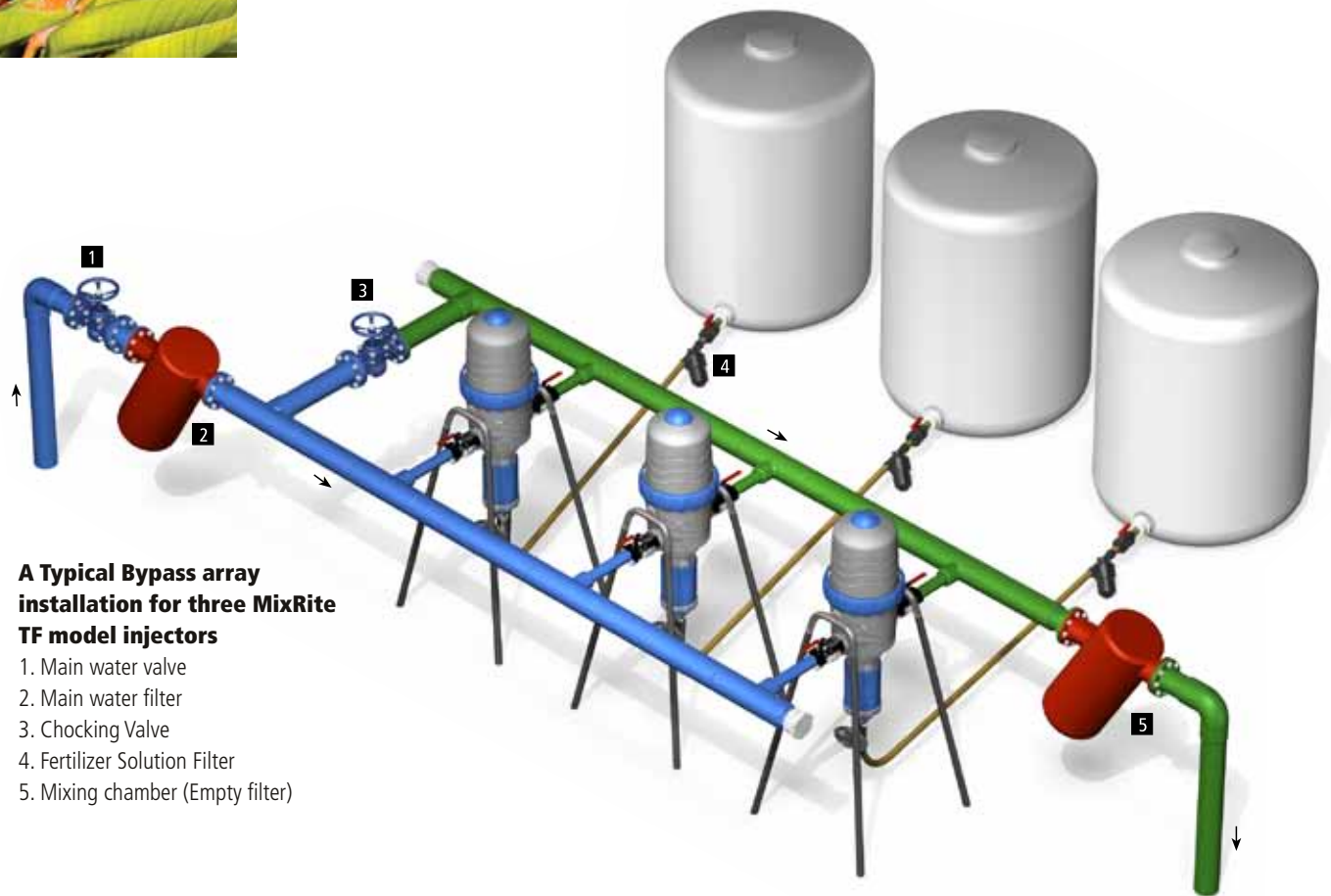


**A Combination of main filtration station and MixRite TF injector on a bypass installation.**

1. Main Valve
2. Chocking Valve
3. MixRite TF Injector
4. 2" Bypass line

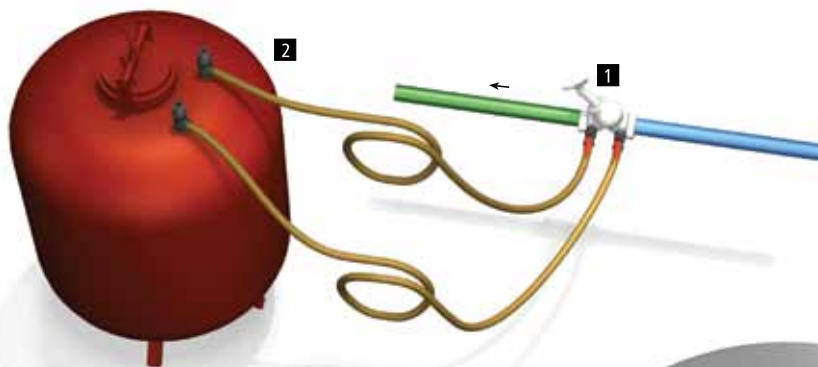


**A typical double inline installation for MixRite TF models**



#### The **OLD** manual way

- Un even distribution
- Manual refill

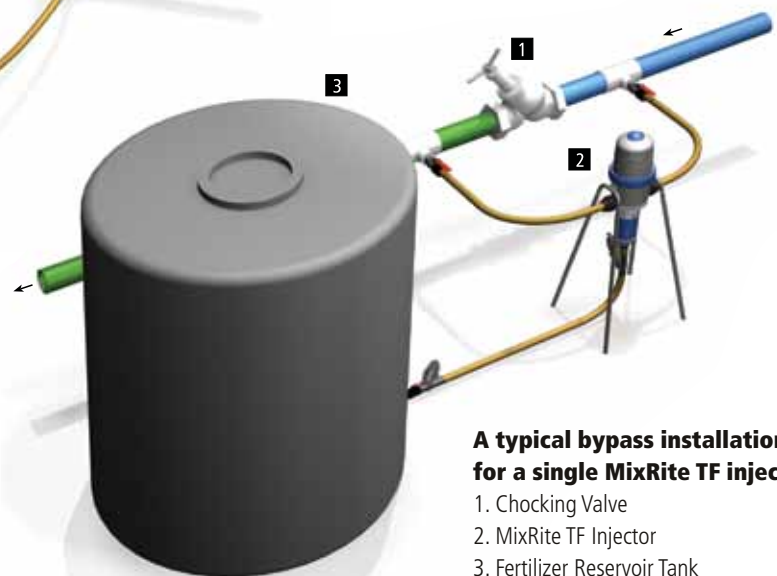


#### A Typical installation for a pressure diluting tank.

1. Chocking Valve
2. Pressure diluting tank

#### The **NEW** automatic way

- Even distribution
- Automatic refill



#### A typical bypass installation for a single MixRite TF injector.

1. Chocking Valve
2. MixRite TF Injector
3. Fertilizer Reservoir Tank





## MixRite® Cart

- 25 liter (6.6 gallon capacity)
  - Rubberized pneumatic tyres
  - Hose hook on rear of unit
  - Equipped with a spray gun
  - Can be available with all 3/4" Models
- Cat.No. 38000000180



## PulseRite System

### Pulse transmitting system

**The system allows all common professional irrigation controllers to collect the data regarding the amount of fertilizer or additive injected by the MixRite injector.**

The data transmitted into the controller can be used to record the quantities of fertilizer or additive injected into the irrigation system.

The system can fit all 3/4" MixRite models.



## General Technical Information

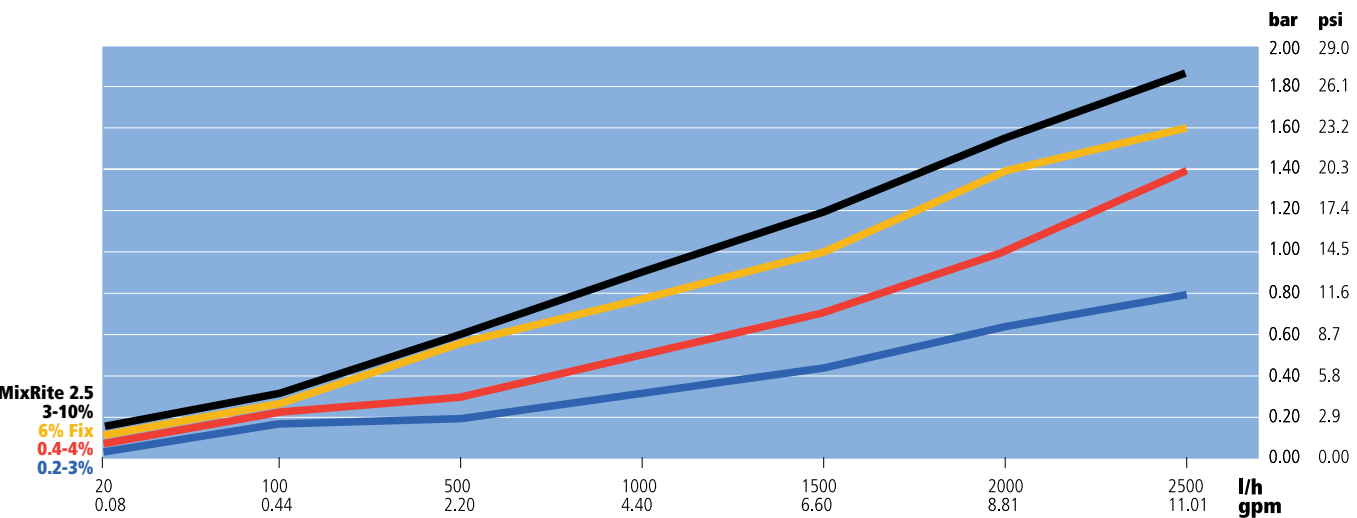
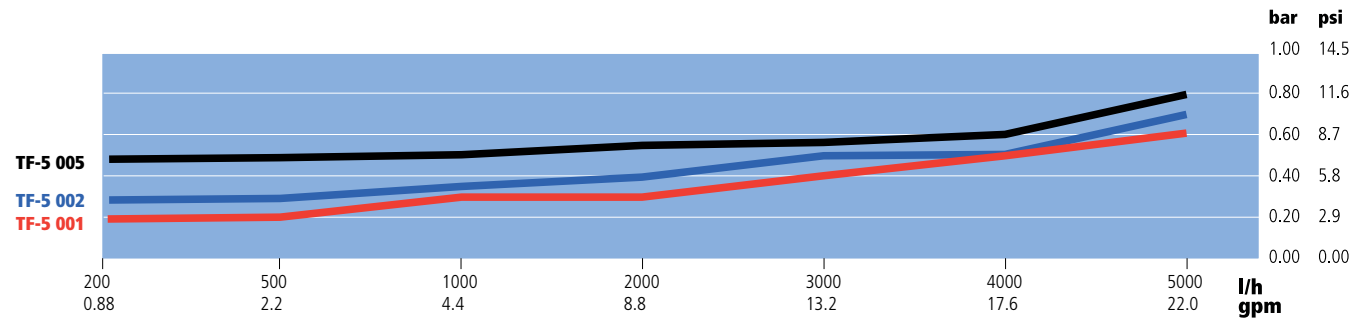
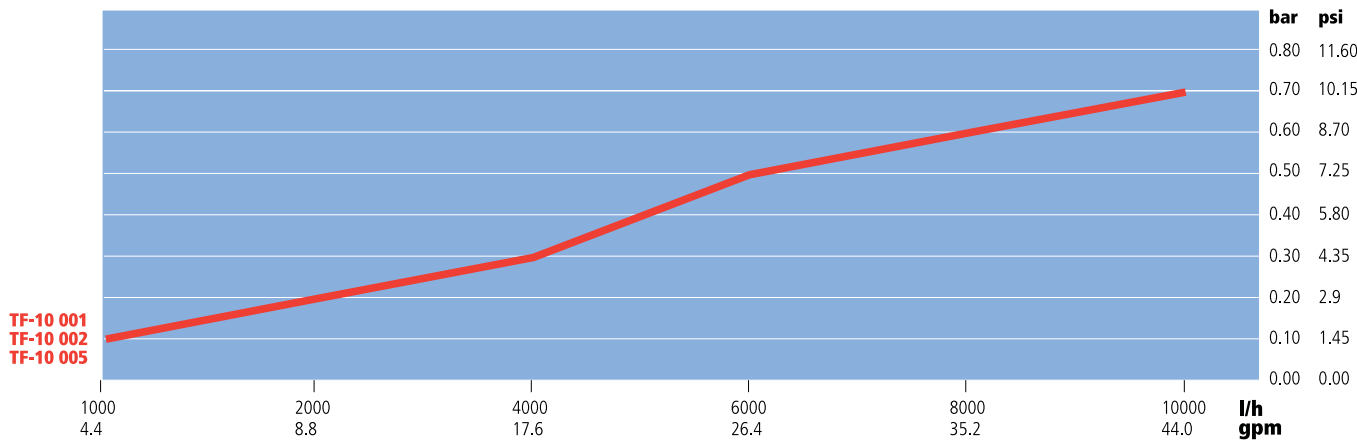
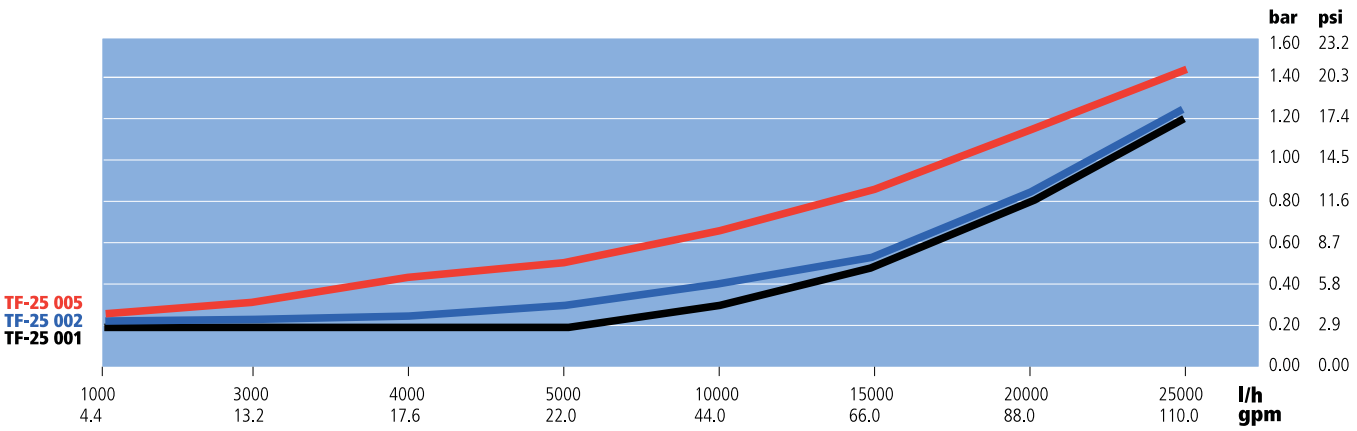
Model	Flow Rate Range	Pressure Range	Dosage Rate %	Connectors Diameter Thread	Min – Max injection rate per hour	Remarks
<b>MixRite 2.5</b> <b>0.2% Fix</b>	20-2500 l/h 0.088 to 11 gpm	0.2 - 8 bar 2.9 - 120 psi	0.2% Fix	3/4"	5 l/h 1.32 gph	BSPT Thread
<b>MixRite 2.5</b> <b>0.8% Fix</b>	20-2500 l/h 0.088 to 11 gpm	0.2 - 8 bar 2.9 - 120 psi	0.8% Fix	3/4"	20 l/h 5.3 gph	BSPT Thread
<b>MixRite 2.5</b> <b>0.1-0.9%</b>	20-2500 l/h 0.088 to 11 gpm	0.2 - 8 bar 2.9 - 120 psi	0.1 - 0.9%	3/4"	0 - 20 l/h 0 - 5.3 gph	BSPT Thread
<b>MixRite 2.5</b> <b>0.3-2%</b>	20-2500 l/h 0.088 to 11 gpm	0.2 - 8 bar 2.9 - 120 psi	0.3 - 2%	3/4"	0.6 - 50 l/h 0.16 - 13.22 gph	BSPT Thread
<b>MixRite 2.5</b> <b>0.4-4%</b>	30-2500 l/h 0.13 to 11 gpm	0.2 - 8 bar 2.9 - 120 psi	0.4 - 4%	3/4"	0.12 - 100 l/h 0.03 - 26.5 gph	BSPT Thread
<b>MixRite 2.5</b> <b>6% Fix</b>	40-2500 l/h 0.16 to 11 gpm	0.2 - 8 bar 2.9 - 120 psi	6% Fix	3/4"	150 l/h 39.7 gph	BSPT Thread
<b>MixRite 2.5</b> <b>3-10%</b>	50-2500 l/h 0.22 to 11 gpm	0.2 - 8 bar 2.9 - 120 psi	3 - 10%	3/4"	1.5 - 250 l/h 0.4 - 66.14 gph	BSPT Thread Optional foot valve
<b>MixRite 2.5</b> <b>0.3-2% by-pass</b>	2500 l/h 11 gpm	0.2 - 8 bar 2.9 - 120 psi	0.3 - 2%	3/4"	0.12 - 50 l/h 0.03 - 13.22 gph	BSPT External Bypass
<b>MixRite 2.5</b> <b>0.4-4% by-pass</b>	2500 l/h 11 gpm	0.2 - 8 bar 2.9 - 120 psi	0.4 - 4%	3/4"	0.4 - 100 l/h 0.1 - 26.5 gph	BSPT External Bypass
<b>MixRite 2.5</b> <b>6% by-pass</b>	2500 l/h 11 gpm	0.2 - 8 bar 2.9 - 120 psi	6% Fix	3/4"	150 l/h 39.7 gph	BSPT External Bypass
<b>MixRite 2.5</b> <b>0.3-2% Internal by-pass</b>	2500 l/h 11 gpm	0.2 - 8 bar 2.9 - 120 psi	0.3 - 2%	3/4"	0.12 - 50 l/h 0.03 - 13.22 gph	BSPT Internal Bypass
<b>MixRite 2.5</b> <b>0.4-4% Internal by-pass</b>	2500 l/h 11 gpm	0.2 - 8 bar 2.9 - 120 psi	0.4 - 4%	3/4"	0.4 - 100 l/h 0.1 - 26.5 gph	BSPT Internal Bypass
<b>MixRite 2.5</b> <b>6% Internal by-pass</b>	2500 l/h 11 gpm	0.2 - 8 bar 2.9 - 120 psi	6% Fix	3/4"	150 l/h 39.7 gph	BSPT Internal Bypass
<b>TF 5-001</b>	0.2 - 5 m³/h 0.88 - 22 gpm	1 - 8 bar 14.7 - 120 psi	0.1 - 1%	1"	0.2 - 50 l/h 0.05 - 13.2 gph	BSPT, NPT 32 mm***
<b>TF 5-002</b>	0.2 - 5 m³/h 0.88 - 22 gpm	1 - 8 bar 14.7 - 120 psi	0.2 - 2%	1"	0.4 - 100 l/h 0.11 - 26.42 gph	BSPT, NPT 32 mm***
<b>TF 5-005</b>	0.2 - 5 m³/h 0.88 - 22 gpm	1 - 8 bar 14.7 - 120 psi	0.5 - 5%	1"	1 - 250 l/h 0.26 - 66.06 gph	BSPT, NPT 32 mm***
<b>TF 10-001</b>	0.5 - 10 m³/h 2 - 45 gpm	1 - 8 bar 14.7 - 120 psi	0.1 - 1%	1½"	0.5 - 100 l/h 0.13 - 26.5 gph	BSPT, NPT 50 mm PE Compression Fittings*
<b>TF 10-002</b>	0.5 - 10 m³/h 2 - 45 gpm	1 - 8 bar 14.7 - 120 psi	0.2 - 2%	1½"	1 - 200 l/h 0.26 - 53 gph	BSPT, NPT 50 mm PE Compression Fittings*
<b>TF 10-005</b>	0.5 - 10 m³/h 2 - 45 gpm	1 - 8 bar 14.7 - 120 psi	1 - 5%	1½"	5 - 500 l/h 1.32 - 132.3 gph	BSPT, NPT 50 mm PE Compression Fittings*
<b>TF 25-001</b>	2 - 25 m³/h 9 - 110 gpm	1 - 8 bar 14.7 - 120 psi	0.1 - 1%	2"	2 - 250 l/h 0.53 - 66.14 gph	BSPT, NPT 63 mm PE Compression Fittings**
<b>TF 25-002</b>	2 - 25 m³/h 9 - 110 gpm	1 - 8 bar 14.7 - 120 psi	0.3 - 2.5%	2"	4 - 625 l/h 1.06 - 165.4 gph	BSPT, NPT 63 mm PE Compression Fittings**
<b>TF 25-005</b>	2 - 25 m³/h 9 - 110 gpm	1 - 8 bar 14.7 - 120 psi	1 - 5.5%	2"	20 - 1375 l/h 5.3 - 364 gph	BSPT, NPT 63 mm PE Compression Fittings**

**Optional: PVDF Body and Hastelloy springs**  
components are available for aggressive chemical applications

\* **Optional:** 50 mm x 11/12" union thread adaptors  
\*\* **Optional:** 63 mm x 2"/2½" union thread adaptors  
\*\*\* **Optional:** 32 mm x 1" union thread adaptors



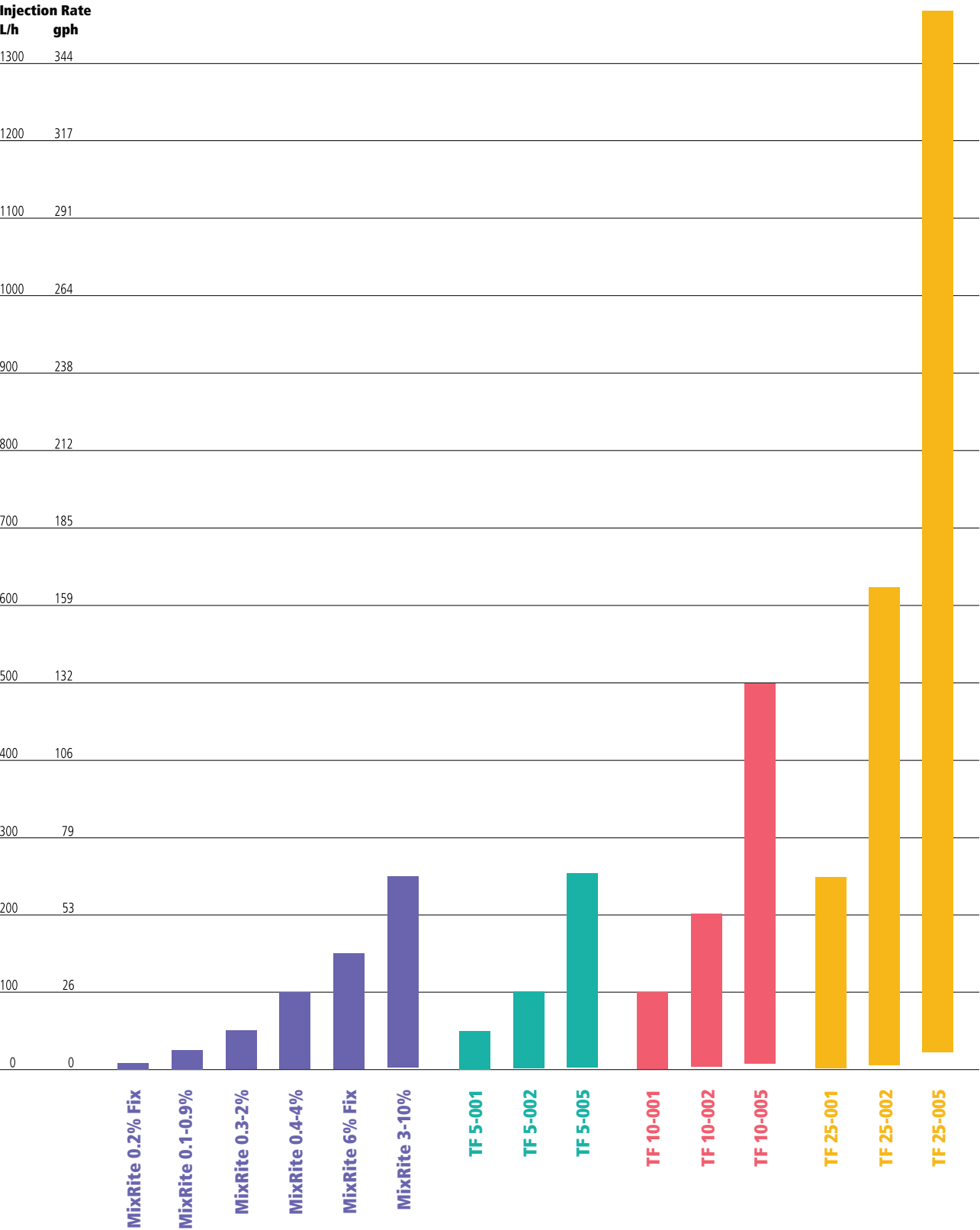
# Pressure Loss Tables







# Max. injection rate per hour - MixRite® Models





## Recommended Accessories



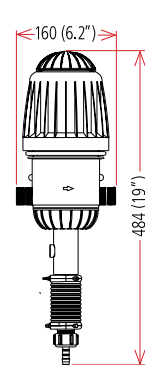
**3/4" FlowGuard**  
Cat. No. 38220000002



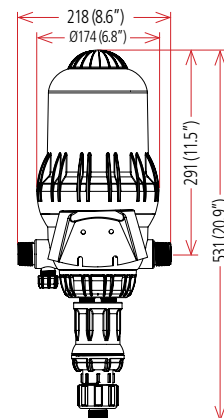
**3/4" Pressure Regulator**  
Cat. No. 38030200002



**3/4" hydraulic Normally Closed valve**  
Cat. No. 38000000011



**MixRite 3/4" Models**



**MixRite TF-5 Models**



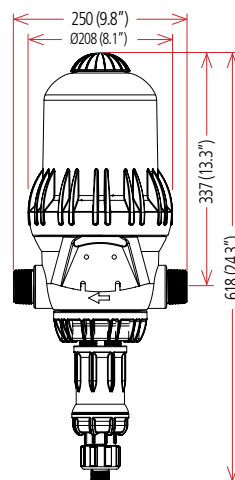
**Suction foot valve**  
Cat. No. 38005728104



**3/4" Fertiguard**  
Cat. No. 38220000001



**Plastic Wall mounting bracket**  
cat no. 36030162765  
For all "3/4 MixRite models



**MixRite TF-10 Models**



**3/4" Static Pressure regulator**  
Cat. No. 38030200001



**3/4" Water Filter**  
Cat. No. 38000000172



**Plastic wall mounting bracket and stand base**  
cat no. 36030162765  
For MixRite TF5 & TF10 models



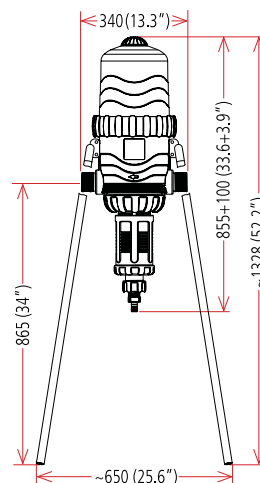
**3/4" Anti siphon kit**  
Cat. No. 36073008002



**3/4" Back flow preventor**  
Cat. No. 38030200004



**Stainless Steel Wall mounting Bracket**  
Cat No. 35000000010  
For models TF25



**MixRite TF-25 Models**



**Manual ON/OFF Option**



**Hydraulic remote control ON/OFF Option**



**Electric remote control ON/OFF Option**



## TEFEN Advanced Plastic Solutions

Nahsholim 30815 Israel  
Phone: 972-4-6395554  
Fax: 972-4-6390813

export@tefenplastic.com  
www.tefenplastic.com



THE STANDARDS INSTITUTION OF ISRAEL