



MixRite™

AGRICULTURE | GREENHOUSE | LANDSCAPE



DEMA®





MixRite™
Fertilizer & Chemical
proportional water
driven injectors, **with no**
other energy required



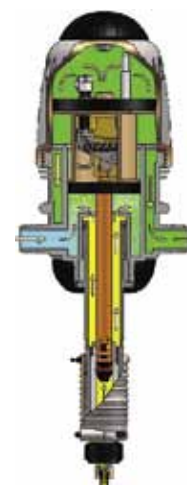
MixRite™ I n j e c t o r s

A step up from

Applications

Fertigation
Chlorination and acidification
Water additives
pH and EC control

Different Models



**Standard
Perfect Blending**

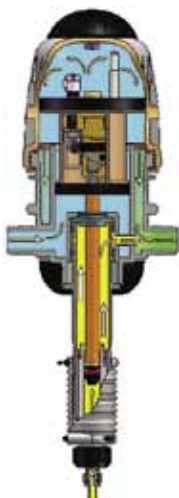


How does it work?

- Positive displacement water driven injector
- Solution is added in proportion to water flow for accurate mixing
- Adjustable injection rate
- Constant concentration of additive regardless of flow or pressure
- No wasted water
- No electricity
- Higher flow rate, less friction loss and longer life than other comparable models

the past

Different Methods



Internal Bypass
Chemical Resistant & Compact





MixRite Models

TF-5

- TF-5-001:** Rate of additive: 0.1% to 1%
- TF-5-002:** 0.2% to 2%
- TF-5-005:** 1% to 5%
- Water pressure from 14.7 to 120 PSI (1-8 bar)
- Flow Rate from 0.8 to 22 GPM (0.2-5 m³/h)
- Weight: 13.2 Lbs (6.0 kg)
- Coupling: 1" or 32 mm
- 10% more flow than the competition



TF-10

- TF-10-001:** Rate of additive: 0.1% to 1%
- TF-10-002:** 0.2% to 2%
- TF-10-005:** 1% to 5%
- Water pressure from 14.7 to 120 PSI (1-8 bar)
- Flow Rate from 2 to 45 GPM (0.5-10 m³/h)
- Weight: 16.23 Lbs (7.38 kg)
- Coupling: 1.5" or 50 mm
- 25% more flow than the competition



TF-25

- TF-25-001:** Rate of additive: 0.1% to 1%
- TF-25-002:** 0.3% to 2.5%
- TF-25-005:** 1% to 5.5%
- Water pressure from 14.7 to 120 PSI (1-8 bar)
- Flow Rate from 4.4 to 110 GPM (2-25 m³/h)
- Weight: 46.42 Lbs (21.10 kg)
- Coupling: 2" or 63 mm
- 25% more flow than the competition





570 / 571* / 2502/12502*

Rate of additive: 0.3% to 2%

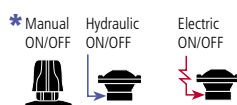
Water Pressure from 2.9 to 120 PSI (0.2-8 bar)

Flow rate from 5.3 to 660 Gal/h (20-2500 l/h)

Size: 56-18.5 cm (22" high x 7.27" wide)

Weight: 4.22 Lbs (1.92 kg)

Coupling: 3/4"



572 / 573* / 2504/12504*

Rate of additive: 0.4% to 4%

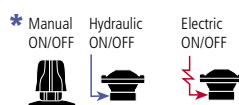
Water Pressure from 2.9 to 120 PSI (0.2-8 bar)

Flow rate from 8 to 660 Gal/h (30-2500 l/h)

Size: 56x18.5 cm (22" high x 7.27" wide)

Weight: 4.22 Lbs (1.92 kg)

Coupling: 3/4"



AgroRite

2" Water Treatment unit

Water flow up to 25m³/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)



574 / 575* / 2510/12510*

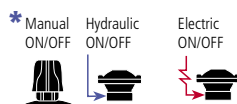
Rate of additive: 3% to 10%

Water Pressure from 2.9 to 120 PSI (0.2-8 bar)

Flow rate from 13.3 to 660 Gal/h (50-2500 l/h)

Weight: 4.22 Lbs (1.92 kg)

Coupling: 3/4"



571-Green / 2500

Rate of additive: 0.2% fixed dosing

Water Pressure from 2.9 to 120 PSI (0.2-8 bar)

Flow rate from 5.3 to 660 Gal/h (20-2500 l/h)

Weight: 4.22 Lbs (1.92 kg)

Coupling: 3/4"



576IN/577IN*/2512IN/12512IN* 578IN/579IN* / 2514IN/12514IN*

Dosing By Internal Bypass

Rate of additive: 0.3 to 2% / 0.4 to 4%

Water Pressure from 2.9 to 120 PSI (0.2-8 bar)

Flow rate from 26 to 660 Gal/h (100-2500 l/h)

Weight: 4.22 Lbs (1.92 kg)

Coupling: 3/4"



Standard models are supplied with a manual air release. The manual air release allows primary bleeding of air locked in the water supply lines.

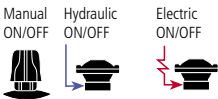
*These models are equipped with On-Off mechanism which will shut down additive injection, allowing a continual water flow.



MixRite Chemical Resistant Options

570/572/574 CL Chlorination Models*

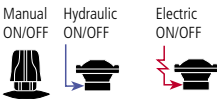
Water Pressure from 2.9 to 120 PSI (0.2-8 bar)
 Flow rate from 5.3 to 660 Gal/h (20-2500 l/h)
 Weight: 4.22 Lbs (1.92 kg)
 Coupling: 3/4"



* Hastelloy springs and Viton extreme seals for chlorinated chemicals

570/572/574 PVDF Models**

Water Pressure from 2.9 to 120 PSI (0.2-8 bar)
 Flow rate from 5.3 to 660 Gal/h (20-2500 l/h)
 Weight: 4.84 Lbs (2.20 kg)
 Coupling: 3/4"



** PVDF Body and components, Viton extreme seals, Hastelloy springs designed to survive aggressive chemical that contain chlorine and acids

PulseRite Pulse Transmitting System for almost any MixRite injector

- Collects data on the amount of fertilizer or additive injected into the irrigation system by counting cycles
- Works with almost all professional irrigation controllers
- The system can fit any 3/4" and 1" MixRite models.

Contact your DEMA irrigation Rep. for details.



PulseRite shown with 570 model



MixRite[™] Mobile Cart System

Portable system for almost any MixRite model or additive container

- Can Carry 250 lbs. and narrow enough to go through standard width doors
- Pneumatic tires cushion ride over rough surfaces
- Can be ordered with any 500 series/11 GPM MixRite
- Included strap secures chemical container
- Includes six foot water supply hose, 25 foot discharge hose, On/off valve and water strainer
- Optional insulated ball valve or trigger spray gun available
- Standard unit has .2 to 2% MixRite with chemical on/off option



571CRS with chemical shut off option



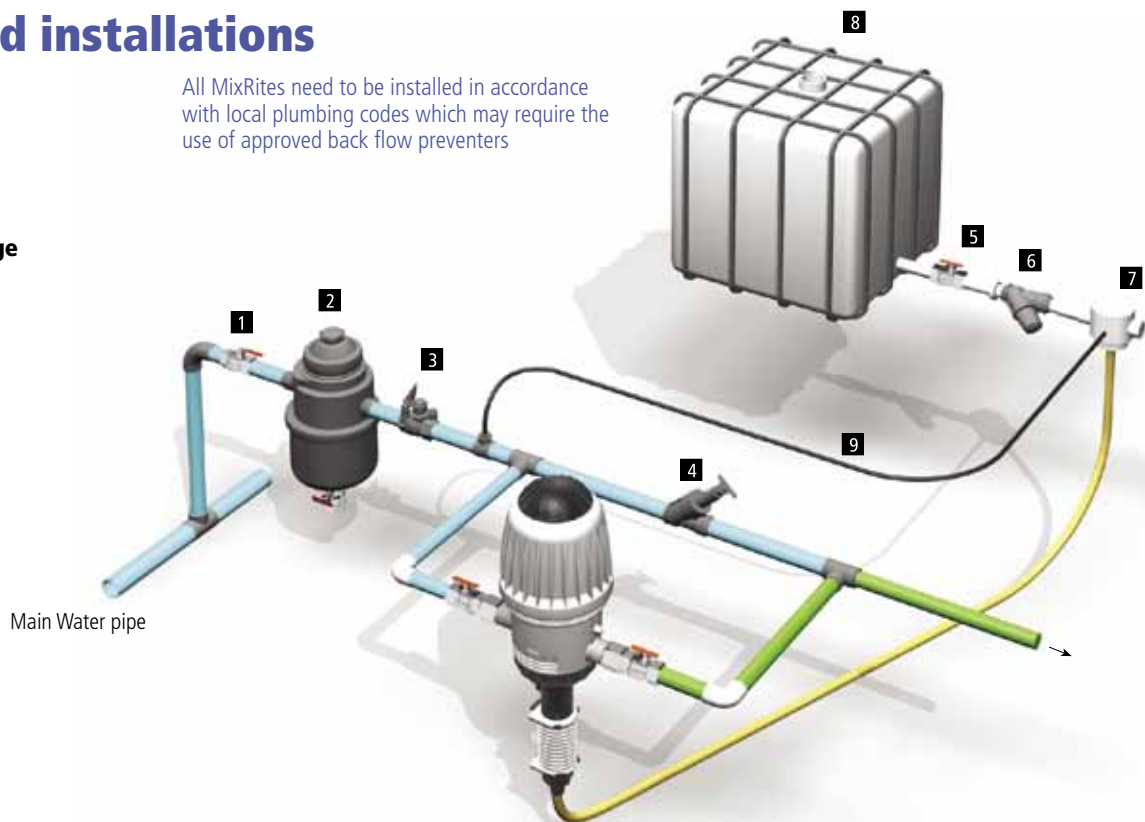
Recommended installations

All MixRites need to be installed in accordance with local plumbing codes which may require the use of approved back flow preventers

Typical bypass installation when using large fertilizer tanks

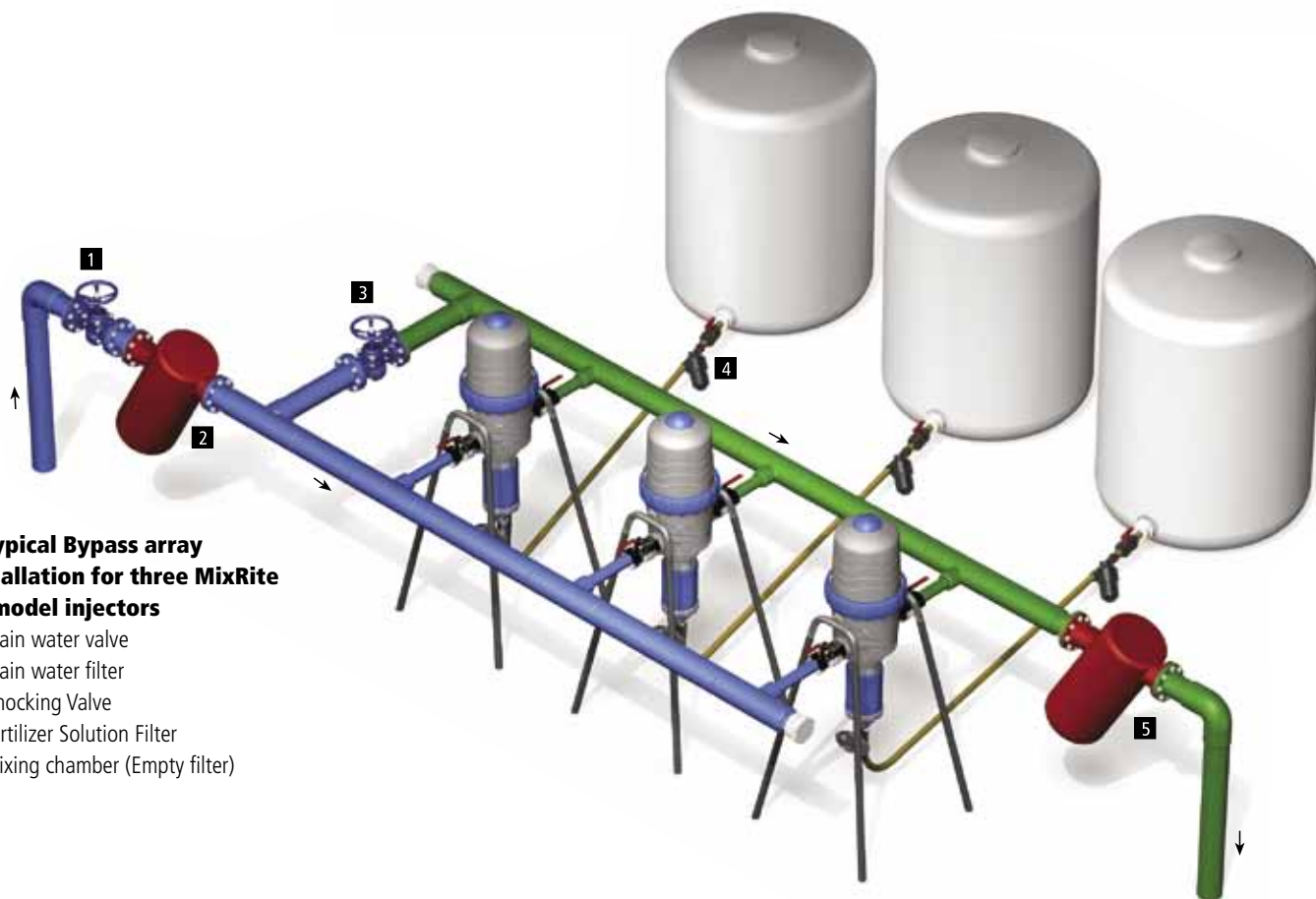
1. Main Valve
2. Filter - 3/4" - 120 Mesh Min.
3. Pressure regulator
4. Choking Valve
5. PVC fertilizer Valve
6. Fertilizer Filter
7. Normally closed hydraulic Fertilizer Valve
8. Fertilizer solution tank
9. 5/16" command tube

Main Water pipe



A Typical Bypass array installation for three MixRite TF model injectors

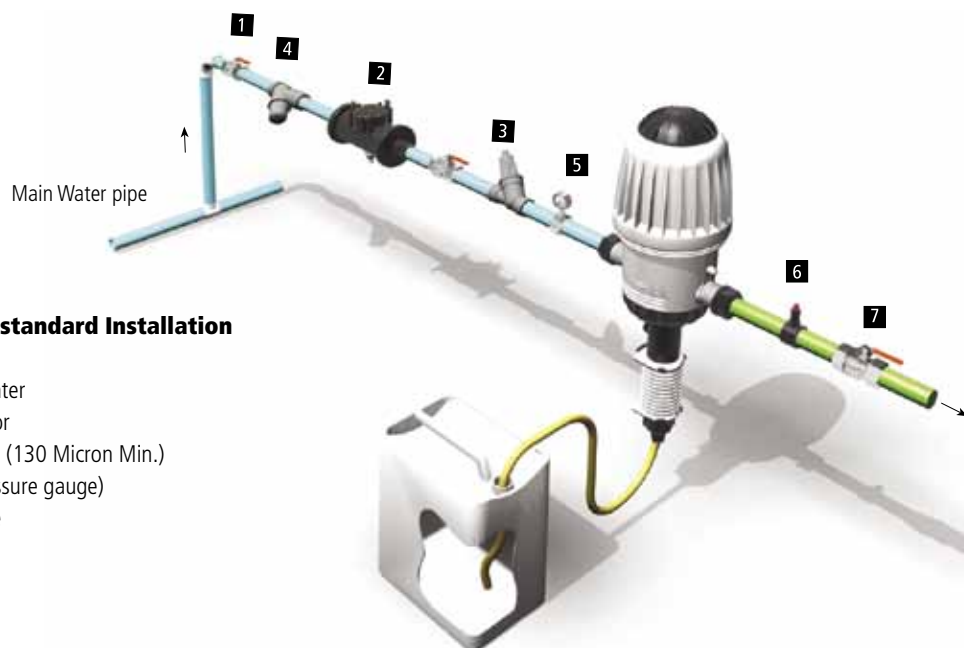
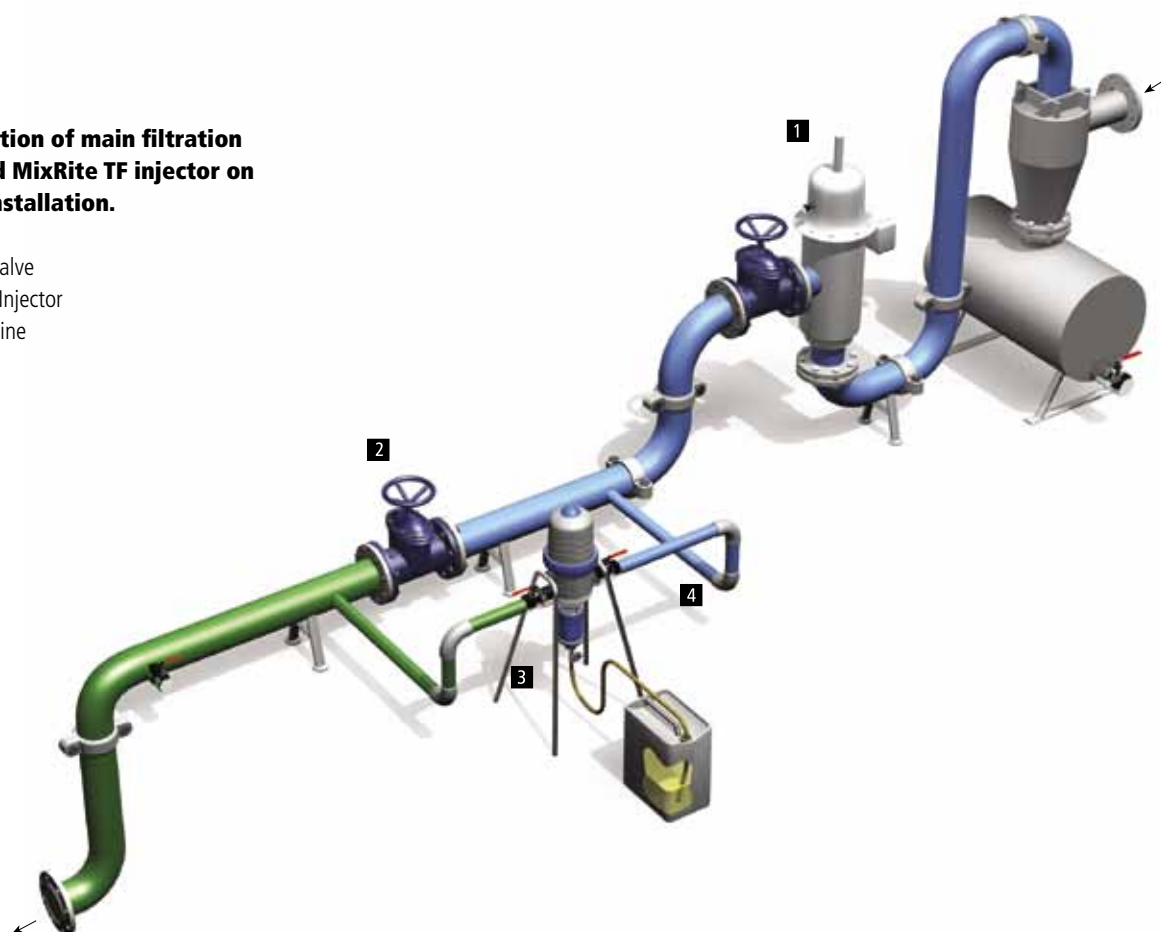
1. Main water valve
2. Main water filter
3. Chocking Valve
4. Fertilizer Solution Filter
5. Mixing chamber (Empty filter)





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

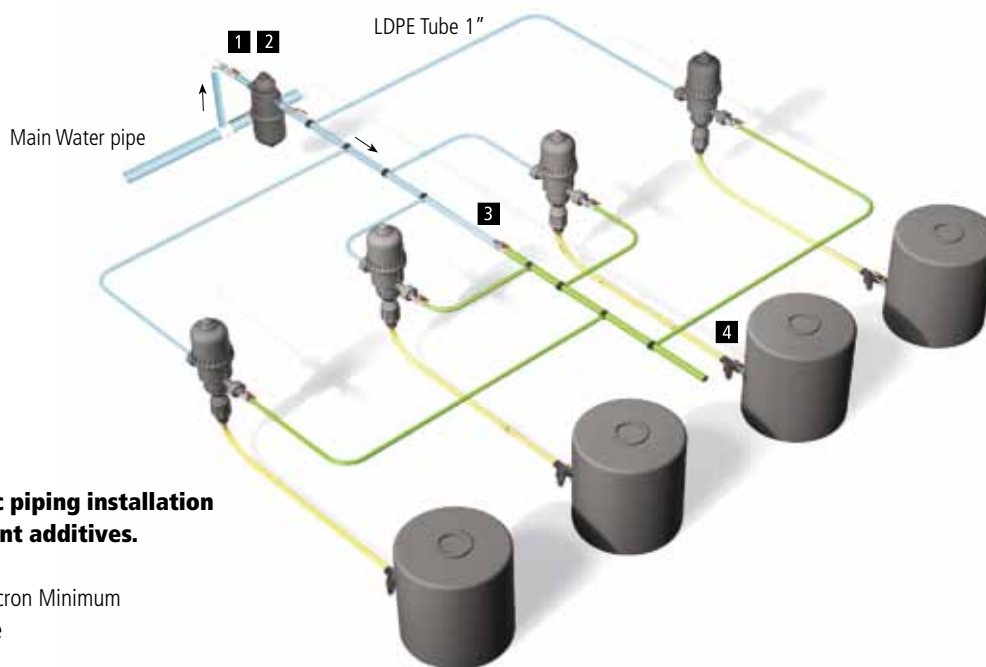
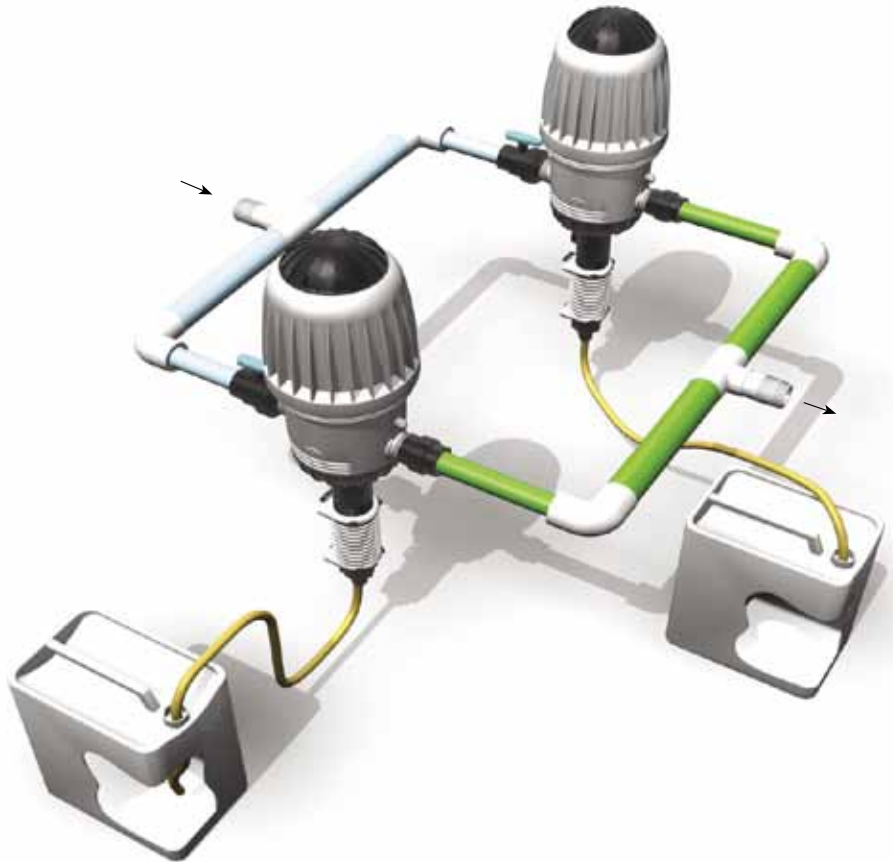


Recommended standard Installation

1. Main Valve
2. Back flow preventer
3. Pressure regulator
4. Filter - 120 mesh (130 Micron Min.)
5. Manometer (pressure gauge)
6. Anti siphon Valve
7. Operation Valve



Recommended installations



Bypass plastic piping installation with 4 different additives.

1. Main Valve
2. Filter - 130 Micron Minimum
3. Chocking Valve
4. Fertilizer filter

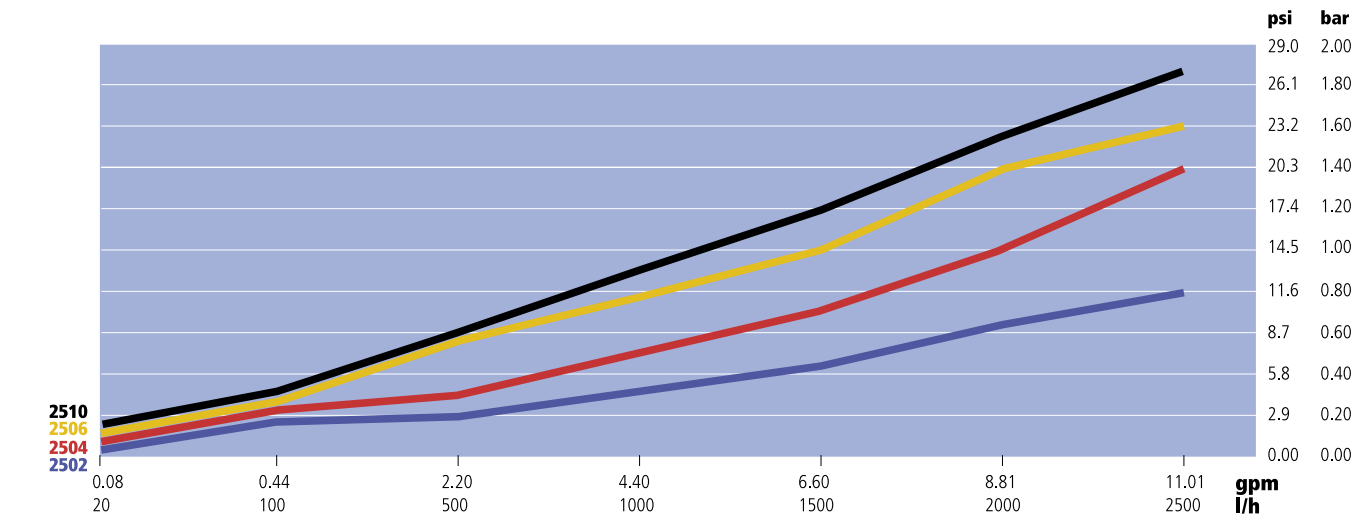
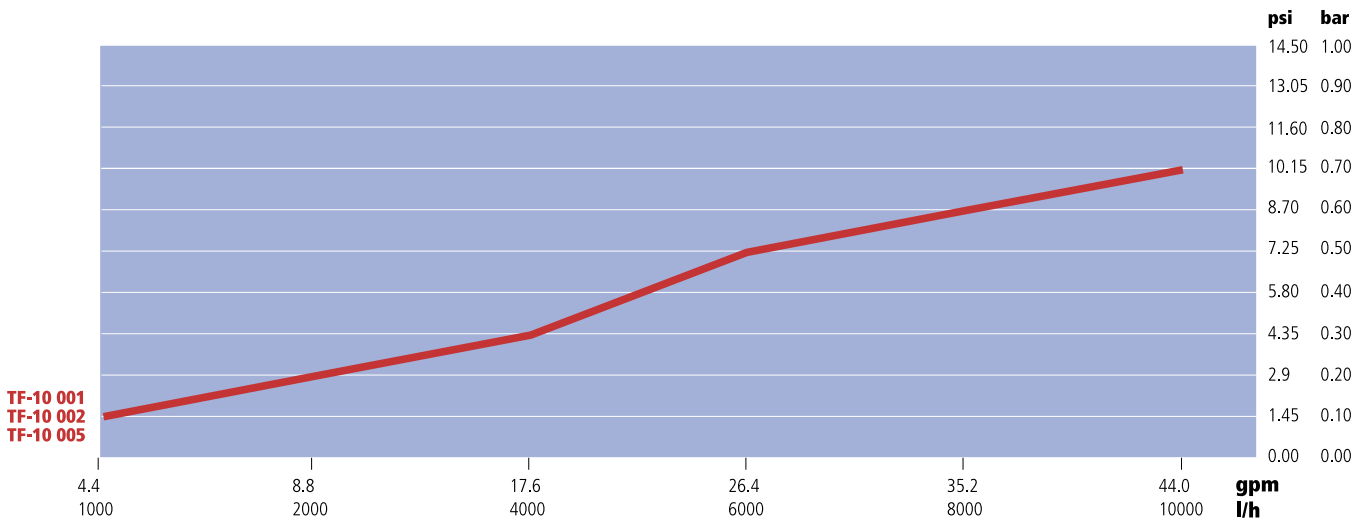
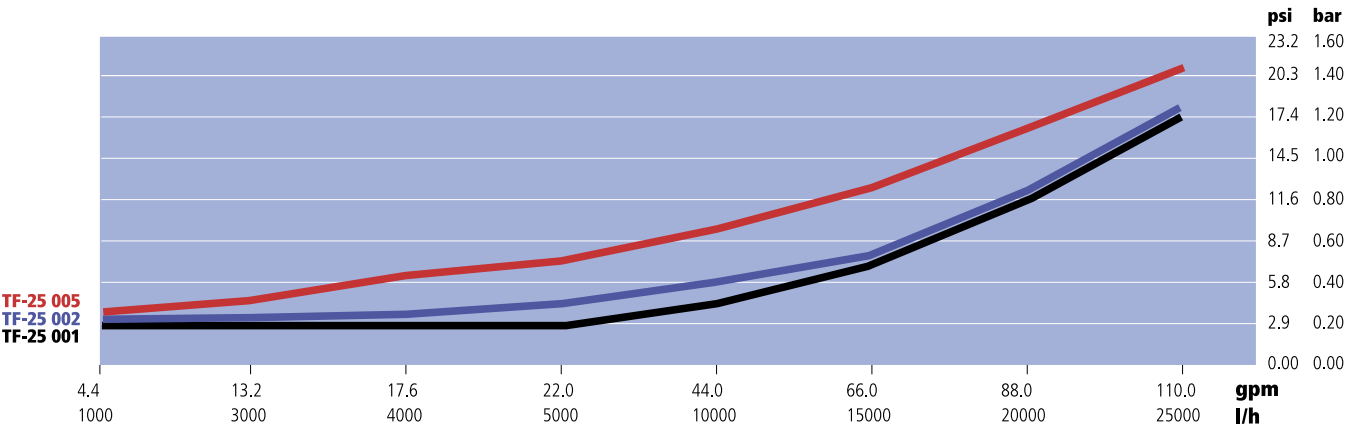


General Technical Information

DEMA Model TEFEN Models	Flow Rate Range	Pressure Range	Dosage Rate %	Connectors Diameter Thread	Min – Max injection rate per hour	Remarks
571 Green	0.088 to 11 gpm	2.9 - 120 psi	0.2% Fix	3/4"	1.32 gph	BSPT Thread
12500	20-2500 l/h	0.2 - 8 bar			5 l/h	
570 / 571	0.088 to 11 gpm	2.9 - 120 psi	0.3 - 2	3/4"	0.16 - 13.22 gph	BSPT Thread
2502 / 12502	20-2500 l/h	0.2 - 8 bar			0.6 - 50 l/h	
572 / 573	0.13 to 11 gpm	2.9 - 120 psi	0.4 - 4	3/4"	0.03 - 26.5 gph	BSPT Thread
2504 / 12504	30-2500 l/h	0.2 - 8 bar			0.12 - 100 l/h	
574 / 575	0.22 to 11 gpm	2.9 - 120 psi	3 - 10	3/4"	0.4 - 66.14 gph	BSPT Thread
2510 / 12510	50-2500 l/h	0.2 - 8 bar			1.5 - 250 l/h	Optional foot valve
576IN / 577IN	0.088 to 11 gpm	2.9 - 120 psi	0.3 - 2	3/4"	0.03 - 13.22 gph	BSPT Internal Bypass
2512IN / 12512IN	20-2500 l/h	0.2 - 8 bar			0.12 - 50 l/h	
578IN / 579IN	0.13 to 11 gpm	2.9 - 120 psi	0.4 - 4	3/4"	0.1 - 26.5 gph	BSPT Internal Bypass
2514IN / 12514IN	30-2500 l/h	0.2 - 8 bar			0.4 - 100 l/h	
570PVDF	0.088 to 11 gpm	2.9 - 120 psi	0.3 - 2	3/4"	0.03 - 13.22 gph	BSPT Thread
	20-2500 l/h	0.2 - 8 bar			0.12 - 50 l/h	
TF 5-001	0.88 - 22 gpm 0.2 - 5 m³/h	14.7 - 120 psi 1 - 8 bar	0.1 - 1%	1"	0.053 - 13.2 gph 0.2 - 50 l/h	NPT External Male
TF 5-002	0.88 - 22 gpm 0.2 - 5 m³/h	14.7 - 120 psi 1 - 8 bar	0.2 - 2%	1"	0.1 - 26.5 gph 0.4 - 100 l/h	NPT External Male
TF 5-005	0.88 - 22 gpm 0.2 - 5 m³/h	14.7 - 120 psi 1 - 8 bar	1 - 5%	1"	0.53 - 66 gph 2 - 250 l/h	NPT External Male
TF 10-001	2 - 45 gpm 0.5 - 10 m³/h	14.7 - 120 psi 1 - 8 bar	0.1 - 1	1½"	0.13 - 26.5 gph 0.5 - 100 l/h	NPT External Male
TF 10-002	2 - 45 gpm 0.5 - 10 m³/h	14.7 - 120 psi 1 - 8 bar	0.2 - 2	1½"	0.26 - 53 gph 1 - 200 l/h	NPT External Male
TF 10-005	2 - 45 gpm 0.5 - 10 m³/h	14.7 - 120 psi 1 - 8 bar	1 - 5	1½"	1.32 - 132.3 gph 5 - 500 l/h	NPT External Male
TF 25-001	9 - 110 gpm 2 - 25 m³/h	14.7 - 120 psi 1 - 8 bar	0.1 - 1	2"	0.53 - 66.14 gph 2 - 250 l/h	2"NPT
TF 25-002	9 - 110 gpm 2 - 25 m³/h	14.7 - 120 psi 1 - 8 bar	0.3 - 2.5	2" 2"	1.06 - 165.4 gph 4 - 625 l/h	2"NPT Male
TF 25-005	9 - 110 gpm 2 - 25 m³/h	14.7 - 120 psi 1 - 8 bar	1 - 5.5		5.3 - 364 gph 20 - 1375 l/h	2"NPT Male

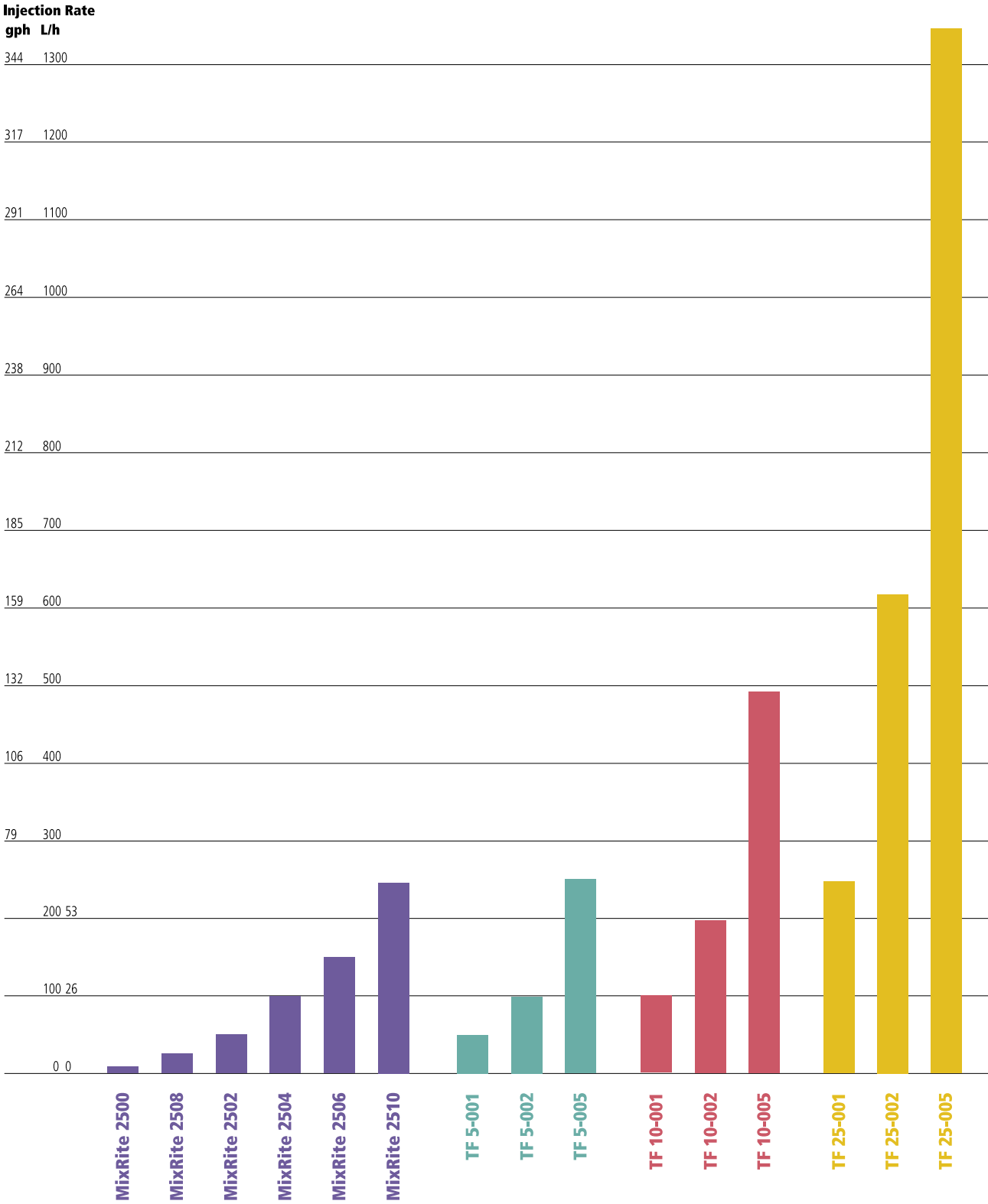


Pressure Loss Tables





Max. injection rate per hour - MixRite™ Models





NOTES



NOTES



Recommended Accessories



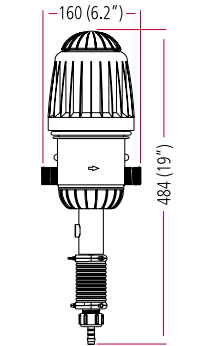
Suction foot valve



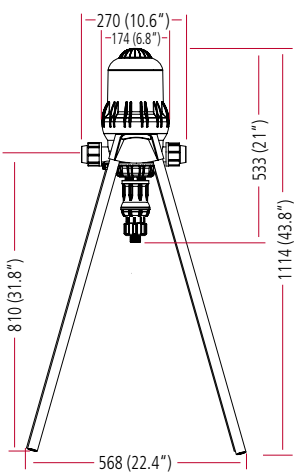
3/4" Pressure regulator



Remote Hydraulic on/off system



MixRite 3/4" Models



MixRite TF-5 Models



3/4" Static pressure regulator



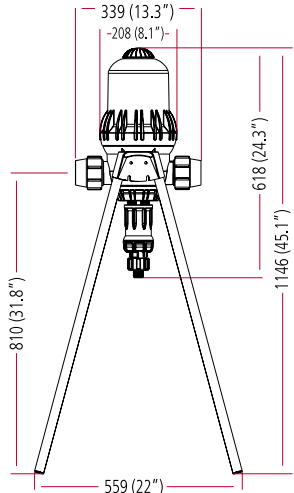
3/4" Fertiguard



Plastic Wall mounting bracket
For all 3/4 MixRite models



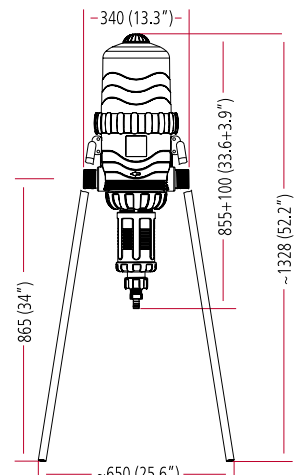
Plastic wall mounting bracket and stand base
For MixRite TF10 models



MixRite TF-10 Models



Stainless Steel Wall mounting Bracket
For models TF25



MixRite TF-25 Models



3/4" Anti siphon kit



50-41-1 Strainer
200 Mesh (80 Micron)



57-11-1 Tip kit for lean dilution ratios
750:1, 1000:1, 1500:1, 2000:1
Includes 4 metering tips, 8 ft. 1/4 inch vinyl hose and 1/4 inch x 3/8 inch barb adapter



Manual ON/OFF Option
All TF Models



Hydraulic remote control ON/OFF Option



Electric remote control ON/OFF Option
24 V AC
24 V DC
2 wires 12-40 VDC Latch
3 wires 12-40 VDC Latch



10020 Big Bend BLVD, St. Louis, MO 63122, Tel: 314-966-3533
Fax: 314-965-8319 www.demaeng.com E-mail: sales@demaeng.com

