DEMA®

Dispensing Innovation

AGRICULTURAL PRODUCTS CATALOG

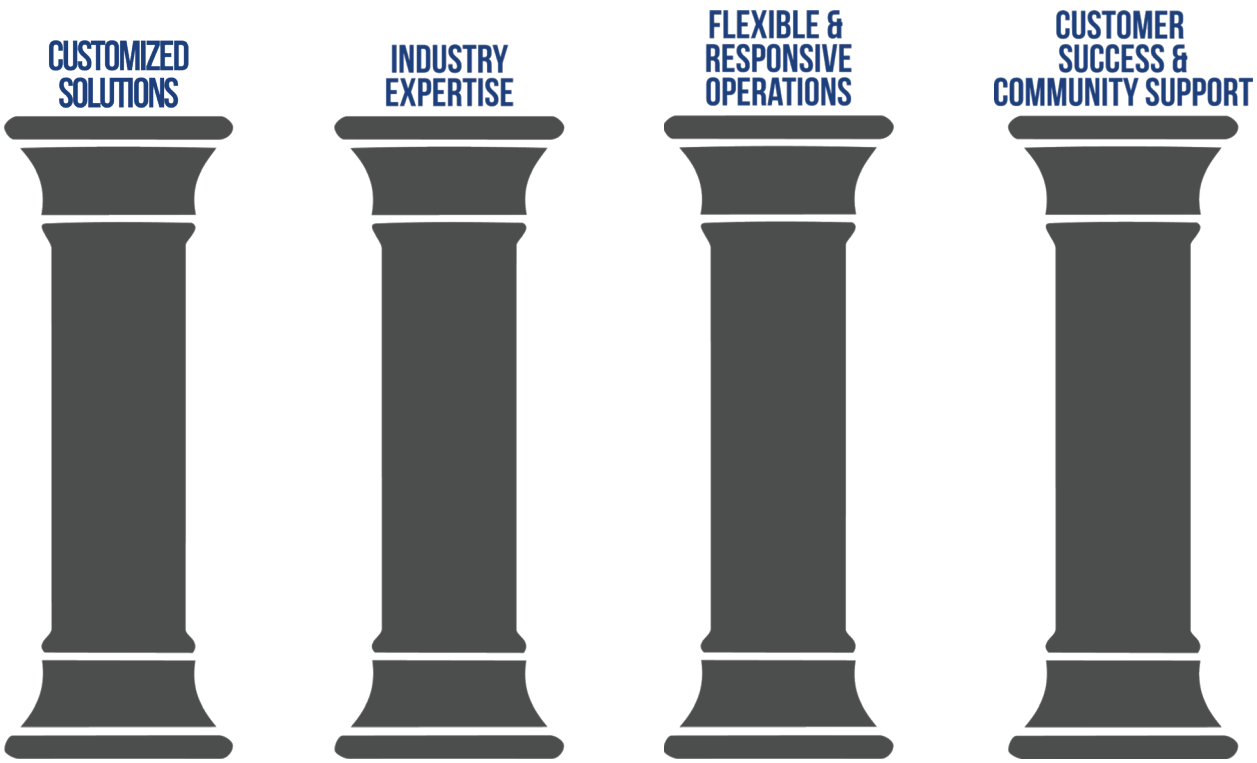


ag.demaeng.com

Our Strategy

*To sustainably grow by offering the best **customized chemical dispensing and fluid control solutions** based on our deep **industry experience, flexible and responsive operations,** and cultural commitment to our **customers' success** and **supporting our communities.***

PILLARS OF SUCCESS



CUSTOMIZED SOLUTIONS

We work hand in hand with our customers to provide unique customized solutions to drive value, enhance image, and build strong brands within their industry. We are able to do complete customized designs to meet our customer's applications or small changes to existing products.

INDUSTRY EXPERTISE

As a global leader in our industry, we have regional support dedicated to all areas of the world. At our corporate headquarters we have comprehensive technical support, complete design and prototyping capabilities, as well as a state-of-the-art laboratory.

FLEXIBLE & RESPONSIVE OPERATIONS

With five manufacturing facilities in the United States, light manufacturing in Europe and Australia, and global contract manufacturing, we're able to streamline product delivery to critical markets. We follow ISO9001: QMS which drives our continuous improvement.

CUSTOMER SUCCESS & COMMUNITY SUPPORT

We view our customer's success as our own. Our dedication to an excellent customer experience parallels the effort that goes into the design and manufacturing of every product we make. We are committed to being a responsible partner to the communities where we do business. We do this through promoting environmental stewardship, implementing sustainable business practices, and giving back with charitable endeavors.

DEMA®



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Applications

HORTICULTURE

When it comes to growing flowers, fruits, or vegetables, DEMA has the right equipment to ensure your plants get the necessary nutrients. We offer water-powered equipment that easily mixes nutrients in-line at the desired ratio. Our injectors make fertilizing as easy as turning on the water and they eliminate many errors that can occur when manually dosing. Automatic in-line pH adjustment equipment is available to provide peace of mind that your plants are receiving optimal water for nutrient absorption. DEMA also offers electronic units that incorporate a pump and controller to inject nutrients, acids, or line-cleaning agents into your lines. If you're looking to add multiple nutrients to your water and have the ratios change based on the stage of the plants, we offer electronic systems that can dispense nutrients in differing amounts for different parts of the growth cycle using programmable formulas. DEMA has a full line of cleaning, sanitizing, and foaming equipment that can be used to clean the greenhouse when the growing is done.

Recommended Products: MixRite, EasyDose, FlexFlow, Trident, Foam Equipment, Spray Max 4, Solenoid Valves



HYDROPONICS

Hydroponic growing means you have the right nutrients in the right place at the right time. DEMA's dispensers make blending and adding nutrients as easy as hitting a button or turning on the water. We offer electronic dispensers that can fill a reservoir with your specified blend of nutrients. Other dispensers can be programmed with formulas that correlate to the different stages of growth, with all nutrient amounts fully customizable by the end user. DEMA's water-powered dispensers can be installed in-line and automatically dose the water with nutrients at the ratios you specify, eliminating many pain points associated with filling hydroponic reservoirs. Hydroponic growers often need to monitor and control the pH of their systems to make sure their water is optimal for plant nutrition. Our electronic dispenser can easily monitor and control pH in the optimal range.

Recommended Products: EasyDose, FlexFlow, Nano P, Trident, Solenoid Valves

CENTER PIVOT IRRIGATION
OPEN FIELD IRRIGATION

Open field irrigation is large scale irrigation that is familiar in every small town. Center pivot irrigation is the main method of fertigating those crops. Whether it's pH correction, injecting nutrients, foliar feeding, pesticides, line cleaning agents, or any other product delivered via water, DEMA has the proper injectors to accurately introduce these to the irrigation system. Our water-powered dispensers are great for applications that don't have a power source located nearby. Many of our electronic units are available in AC or DC configurations to meet your needs.

Recommended Products: MixRite, EasyDose, FlexFlow



DAIRY

Dairy applications use far more equipment in production than just sanitation. DEMA dispensers are well-suited for all stages of the dairy production process, from prepping cows to be milked to cleaning the parlors where the milking happens to cleaning the machinery that handles the final product. We engineer, design, and manufacture dispensers that help wash udders, mix multiple products for teat dips, dilute concentrates to sanitize hooves, spray cleaners onto boots, clean and sanitize milking parlors, and spray chemical products as foam. We also have electronic dispensers for Clean-In-Place systems that are easily integrated with 3rd party controllers or work independently with the push of a button.

Recommended Products: MixRite, CDS, 830TMP, DC8410, MiniMix, ProFoam, Foaming Equipment, Spray Max 4, Solenoid Valves

WATER TREATMENT

Our expertise in water treatment equipment covers a diverse range of applications, including treating water for plants and animals and treating water used in food and beverage production facilities. DEMA dispensers ensure that chlorine, acids, vitamins, minerals, or other additives are introduced into water lines at the proper rates. We offer water-powered and electronic dispensers that inject additives proportional to water flow, dispense based on other sensors in the system, or pump a set amount of product when a button is pressed.

Recommended Products: MixRite, EasyDose, FlexFlow, DEMA XT, Sentinel, Solenoid Valves



ANIMAL HEALTH

DEMA products are used in many different areas of animal health, ranging from drinking water treatments to dispensing soap products for show animals. We are the experts in equipment that dilutes chemicals for cleaning water lines, spraying boots, sanitizing animal enclosures, treating drinking water, and mixing iodine. Whether cleaning up a pig pen or shampooing a prize-winning cow, DEMA has the right equipment to dilute the products you need to do the job accurately.

Recommended Products: EasyDose, FlexFlow, Sentinel, MiniMix, ProFoam, Foaming Equipment, Spray Max 4



MixRite 500 Series

Chemical dosing pump for flow rates up to 11 GPM

The MixRite 500 series water driven injectors are designed to operate from .8 to 11 GPM (3-41 LPM). The 500 series is available as a "CW" model with seals and components for mildly aggressive additives, as an AG model with seals for fertilizers, and a PVDF model for the most aggressive additives. DEMA also offers select MixRite units with options such as an internal bypass and/or chemical shut-off. The 500 series units have a 3/4" NPT inlet and outlet.

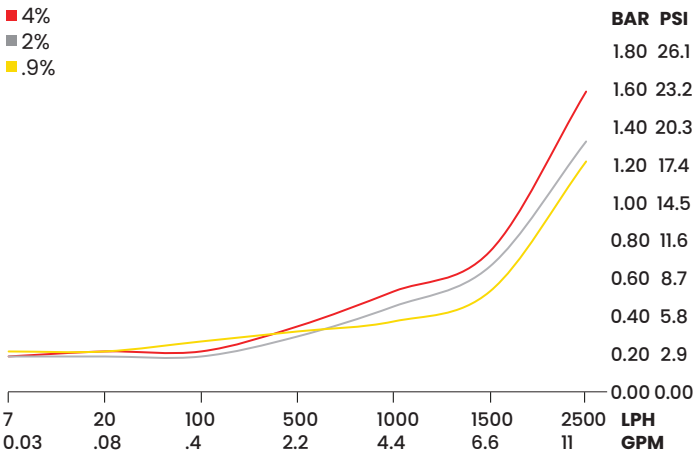


Air Release Model

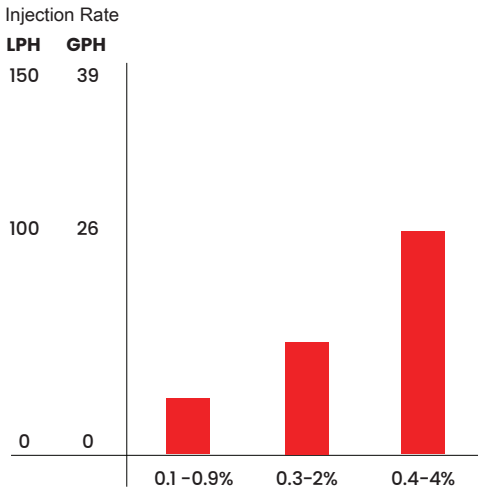
Model Number	Injection Rates	Available Models
566	Fixed 1%	AG
568	Fixed 0.8%	AG
569	0.1% to 0.9%	CW, PVDF
570	0.3% to 2%	CW
571	0.3% to 2%	CW, PVDF
572	0.4% to 4%	CW
573	0.4% to 4%	CW, PVDF
577IN	0.3% to 2%	Internal Bypass
579IN	0.4% to 4%	Internal Bypass

500 Series models have a flow rate of 0.8-11 GPM. Models ending in odd numbers have a manual chemical on/off. Even numbered units have an air release

Pressure Loss



Max. injection rate/hour



MixRite 1400 Series

Water powered dosing pump for flow rates up to 14 GPM

The 1400 series proportional injection pumps are typically used for greenhouses, nutrient delivery, cleaning, food safety, as well as drip and spray fertigation applications. These injectors are designed for enhanced compatibility with nutrients, pesticides, mild acids, and other additives. The updated internal design allows for an increased flow rate of up to 14 GPM (53 LPM) and up to 10% chemical injection. All 1400 series models have a 3/4" NPT inlet and outlet.

Model Number	Injection Rates
1400A/M	0.03% to 0.2%
1401A/M	0.1% to 0.9%
1402A/M	0.3% to 2%
1405A/M	0.5% to 5%
1410A/M	1% to 10%

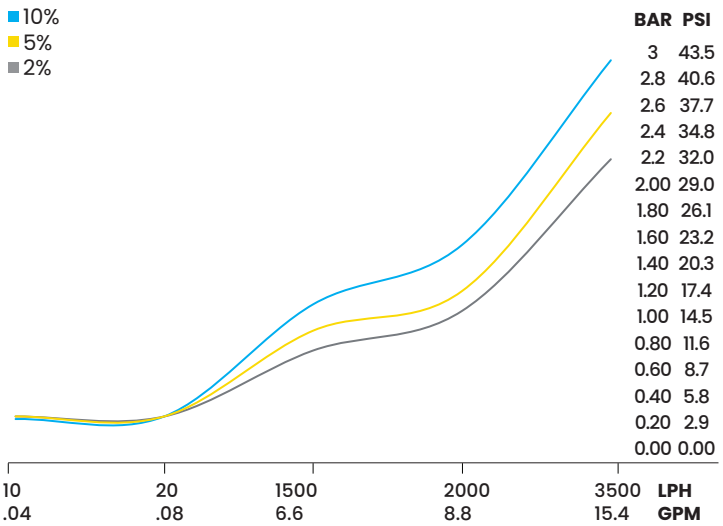
1400 series models have a flow rate of 0.8-14 GPM.
Models ending with "A" have an Air Release. Models ending with "M" have a manual chemical On/Off.

NOTE: *Installation example on page 21.*

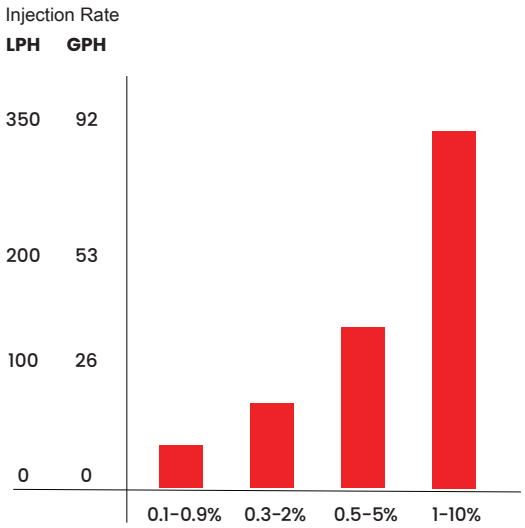


On/Off Model

Pressure Loss



Max. injection rate/hour



MixRite TF3

Chemical dosing pump for flow rates up to 11 GPM

TF3 MixRites are designed for low to medium water flow for fertilizer, nutrients and other in-line additives. They are not designed for strong acids, alkalis, or solvents. The TF3 is designed for water flow up to 11 GPM (41 LPM), operates as low as .8 GPM (3 LPM) and has 1" NPT threaded connection for in-line mounting.

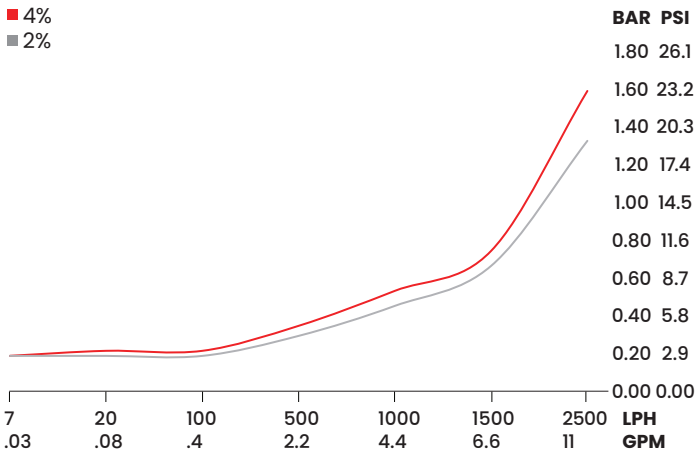


Air Release Model

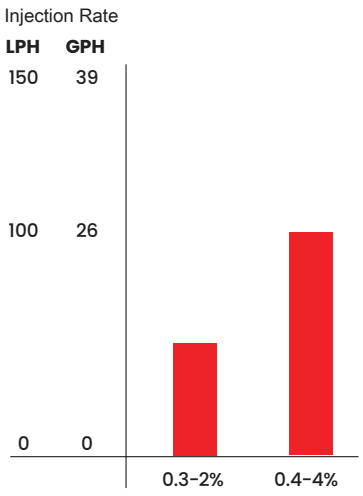
Model Number	Injection Rates
TF3.002ON/OFF	0.3% to 2%
TF3.004ON/OFF	0.4% to 4%

TF3 series models have a flow rate of 0.8-11 GPM.

Pressure Loss



Max. injection rate/hour



MixRite TF5

Water powered dosing pump for flow rates up to 22 GPM

TF5 MixRites are designed for low to medium water flow for fertilizer, nutrients, and other in-line additives. The standard units are designed for chlorine and mild acids. TF5 units are available with Viton O-rings designed for harsh chemicals and additives. The TF5 is designed for water flow up to 22 GPM (83 LPM), operates as low as 1 GPM (3.8 LPM) and has 1" NPT threaded connections for in-line mounting.

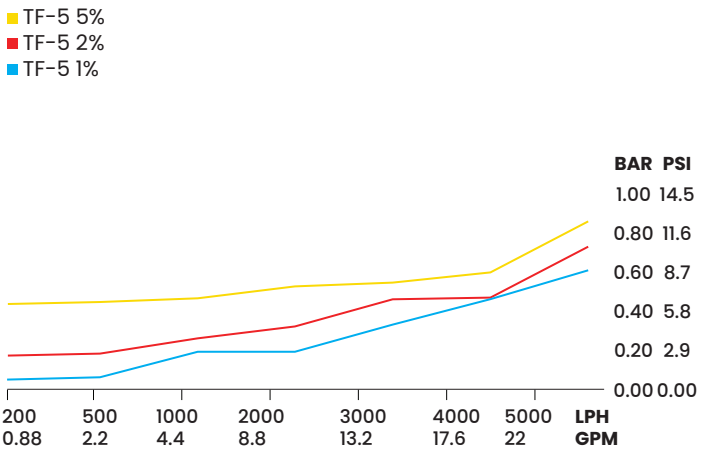
Model Number	Injection Rates	Features
TF.5.001CL.PAAON/OFF	0.1% to 1%	For chlorine and mild acids
TF.5.002ON/OFF	0.2% to 2%	
TF.5.002.V.ON/OFF	0.2% to 2%	Viton Seals
TF.5.005ON/OFF	1% to 5%	
TF.5.005.V.ON/OFF	1% to 5%	Viton Seals

TF5 series models have a flow rate of 1-22 GPM.

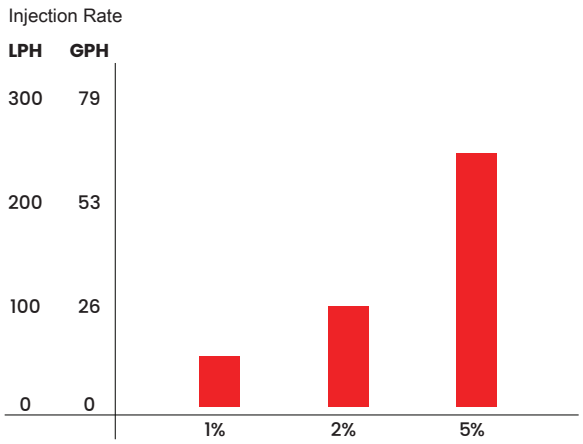


On/Off Model

Pressure Loss



Max. injection rate/hour



MixRite TF10

Chemical dosing pump for flow rates up to 45 GPM

The TF10 MixRites are designed for medium water flow for fertilizers, nutrients, and agricultural or irrigation additives. We have models that range from 0.1% up to 5% dilution rates. The TF10 is designed to handle water flow up to 45 GPM and operates from 2 – 45 GPM (8 - 167 LPM). The TF10 has 1.5" NPT threaded connections for in-line mounting.

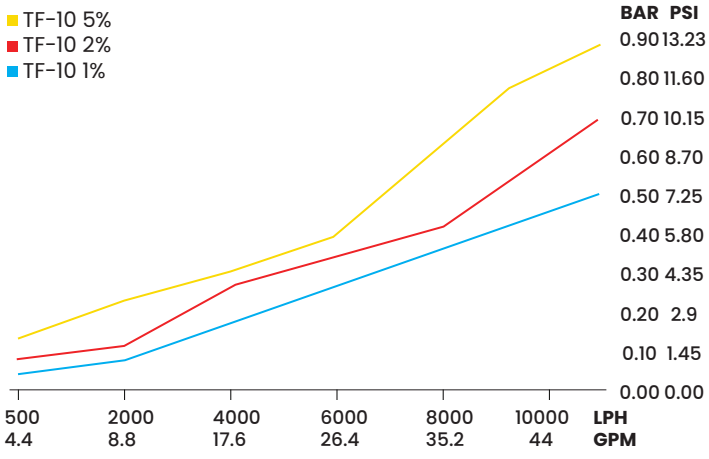
Model Number	Injection Rates
TF.10.001CL.PAAON/OFF	0.1% to 1%
TF.10.002ON/OFF	0.2% to 2%
TF.10.005.ON/OFF	1% to 5%

TF10 models have a flow rate of 2-45 GPM.

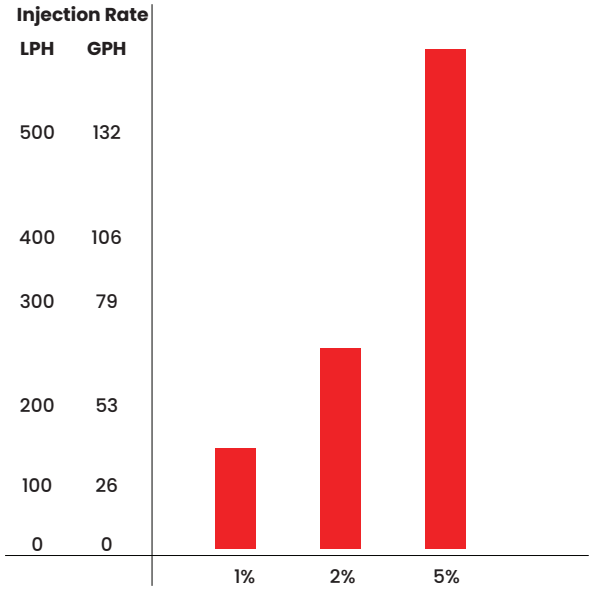


On/Off Model

Pressure Loss



Max. injection rate/hour



MixRite TF25

Water powered dosing pump for flow rates up to 110 GPM

The MixRite TF25 series injectors are intended for high water flow fertigation and used for fertilizers, nutrients, and other in-line additives. The TF25 model has 2" NPT inlet/outlet connections. MixRite TF25 models are used to ensure precise additive injection with various flow rates.

Model Number	Injection Rates
TF.25.001CL.PAAON/OFF	0.1% to 1%
TF.25.002ON/OFF	0.3% to 2.5%
TF.25.005ON/OFF	1% to 5.5%

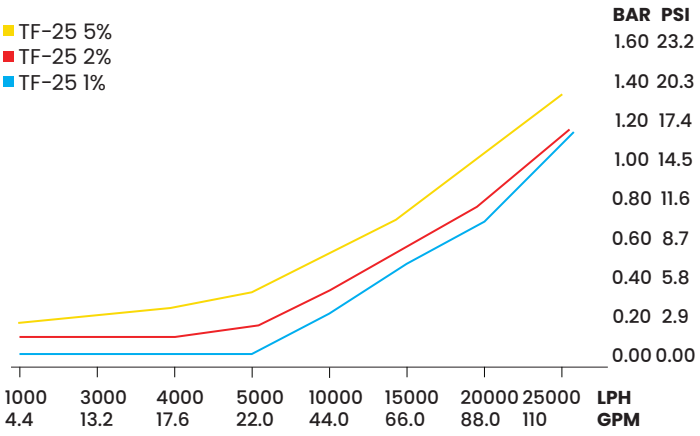
TF25 series models have a flow rate of 9-110 GPM.

NOTE: *Installation example on page 23.*

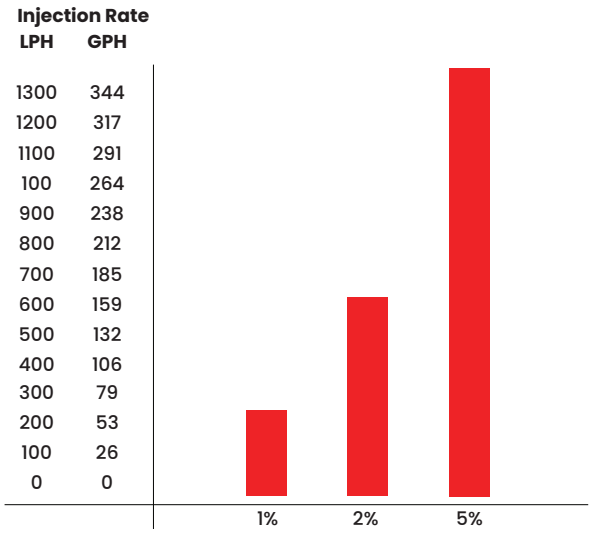


On/Off Model

Pressure Loss



Max. injection rate/hour



Iota

Lean Metering Device

The Iota Lean Metering Device is the definitive solution for managing today's ultra-concentrated chemicals, making mixing both accurate and efficient. Iota offers precise ultra-lean dilution control in diverse environments—including hospitality, food service, agriculture, industrial, and carwash applications. With the proven ability to accurately dilute past 1000:1 ratios, Iota achieves the leanest dilutions while providing safe, low-maintenance performance for ultra-concentrated cleaning products, sanitizers, and disinfectants.





Iota with Sentinel

Model Number	Description
100.18K	Complete Iota Lean Metering Kit
100.18.INLET	Replacement Inlet Fitting with Integrated Mesh Strainer
100.18.OUTLET	Replacement Outlet Fitting
100.18.ALL	Set of Discs and Seals

MiniMix

Portable Sanitizing and Cleaning

The DEMA MiniMix is the next generation of the most trusted chemical dispensers in the world, with decades of reliability in its legacy. The MiniMix's modular design lets you easily couple together any number of stations to create a system that meets your needs.



Model Number	Description
633MB3	Low flow 2.5 GPM (9.5 LPM), blue button, plastic cover

Features & Benefits

- Durable plastic housing
- Compact size makes for easy out-of-the-way installation
- Water inlet easily switches from left or right side
- Precision metering tips allow for adjustment of the dilution rate
- Utilizes our chemical-resistant Poly Rocket Injector
- Can be used with a 25 ft. garden hose (not included) for cleaning applications
- Dilution is controlled by selecting the appropriate metering tip
- Includes wall hanging bracket for simple installation

Sentinel

Mounted Float Valve System

The Sentinel Float Valve System takes the hassle out of maintaining water levels and handling chemical injection. It's designed to save you time, reduce maintenance costs, and help you maximize your profits. Whether you need a fill rate as low as 1 GPM or as high as 64 GPM, this system has you covered. When paired with DEMA proportioners and injectors, it makes mixing chemicals safe, simple, and dependable. With the Sentinel, water and chemical management becomes easier and more efficient than ever.



540.23BT



540.057.T

100.15K.FV Metering Tip Kit for ¼" Hose Barbs

540 SERIES FLOAT VALVES (4 GPM)		
Tip Color	**Ratio**	**OZ/Gallon**
Tan	387 : 1	0.33
Orange	307 : 1	0.42
Turquoise	256 : 1	0.51
Pink	165 : 1	0.78
Clear	147 : 1	0.87
Brown	128 : 1	0.99
Red	93 : 1	1.37
White	84 : 1	1.52
Green	74 : 1	1.72
Blue	60 : 1	2.13
Yellow	42 : 1	3.05
Black	28 : 1	4.50
Purple	17 : 1	7.75
Gray	13 : 1	9.86
None	7 : 1	19.63

Chemical induction rates are based on water thin products (1 CPS). Induction rates may vary from product to product. Field tests are recommended.

Model Number	Flow Rate	Induction		Back Flow	On/Off
Chemical Injection System	**(GPM AT 40 PSI)**	**MIN**	**MAX**	**Protection**	**Valve**
540.22T	4.0	430:1	4:1	No	Yes
540.23T	4.0	430:1	4:1	Action Gap	Yes
540.23BT	4.0	387:1	7:1	Action Gap	Yes
540.24	2.5	195:1	2:1	Action Gap	Yes
537P.21	22.0	1828:1	14:1	Siphon Breaker	No
WATER FILL VALVE SYSTEMS					
540N	6.0	N/A	N/A	No	Yes
537PN	64.0	N/A	N/A	No	No
SENTINEL & ROCKET					
540.057.T	0.5	128:1	2:1	No	Yes
540.086.T	1.1	268:1	2:1	No	Yes
540.125.T	2.1	510:1	4:1	No	Yes

Easydose

Electric Chemical Injection System

Thanks to the extreme chemical durability of our pump components, Easydose can be used in applications ranging from fertilization, water treatment, acid injection, cleaning chemicals and much more. Easydose uses innovative features such as the DEMA smart dosing software, which provides accurate proportional dosing across a wide range of flow rates. The controller and pump module components are housed in outdoor-rated enclosures.



Features & Benefits

- Modular for easy add-on pumps or pump replacement
- 4-20mA capability to control pump rate
- Drop-in chemical reservoir float switch for auto shut-off when the chemical is depleted
- Outdoor-rated enclosures with mounting hardware

Model Numbers	
85AC.DP2	85AC.DP2F
85DC.DP2	85DC.DP2F
Controller Voltage	
85AC = 8511.AC Control Unit 115/230VAC Main Power	
85DC = 8511.DC Control Unit 12VDC Main Power	
Pump	
DP2 = 12VDC Diaphragm Pump	
Flow Meter Option	
F = Analog Flow Meter (optional)	

DEMA XT

Water Treatment Controller

The DEMA XT Controller provides precise monitoring and control for agricultural irrigation, improving efficiency in greenhouses, vineyards, orchards, and livestock farms. It monitors pH, conductivity, and ORP to keep water treatment within set limits, automatically running Flex Flow or Easydose pumps to maintain optimal conditions. A touchscreen display delivers real-time alerts and custom reports, plus multi-level security, USB configuration cloning, and a large customizable interface built for field use.



Features & Benefits

- Provides continuous real-time monitoring and logs pH, Conductivity, and ORP levels
- 120 VAC relays can power pumps (ex. DEMA FlexFlow and Easydose pumps)
- Delivers on-screen alert notifications and email alerts
- Supports custom report development and compliance features
- Secure 24/7 data access with multi-level user security
- 4–20 mA inputs and outputs for dynamic sensor reading
- Configurable for a wide range of digital and analog inputs
- Includes 5 control relays
- Tracks water flow and usage
- Features internet communication capabilities via wired or wireless connection (optional gateway not included)
- Large customizable display with a simple touchscreen menu
- NEMA 4X enclosure

Model Number	Description
0960.XT.CP	Monitors and logs pH, and conductivity
0960.XT.CPO	Monitors and logs pH, conductivity, and ORP levels

FlexFlow

A piston diaphragm pump for product delivery

FlexFlow piston diaphragm pumps provide precise, automatic dosing. Paired with DEMA's NanoP pH controller, they adjust acid dosing in real time based on pH readings; with the NanoC conductivity controller, they automatically dose nutrients using probe measurements. Built with durable, chemical-resistant components, FlexFlow pumps handle anything from strong acids to alkalines for reliable performance in demanding environments.



0960.M



0960.L

Features & Benefits

- Seamless integration with the DEMA Nano controllers
- Safe and easy connection to a 120V power source
- Engineered to withstand exposure to acids and many other harsh chemicals
- Efficiently injects into water lines with pressures up to 100 psi
- Compatible with most flow switches
- Dual PTFE barrel check valve prevents flow reversal
- Alternative pump head available for chemicals that off-gas vapor
- NEMA 4X enclosure provides protection from dust and water

Model Number	Description
0960.M	Metering pump for chemical applications, 120V, 30 GPD, 100 PSI
0960.L	Digital Metering pump for chemical applications, 12V, 30 GPD, 100 PSI

Nano

Controllers

The NanoP and NanoC pump controllers deliver precise, real-time control of water parameters by continuously monitoring pH or conductivity with in-line probes and automatically adjusting dosing through compatible pumps like the FlexFlow. For example, if pH rises above the setpoint, NanoP activates the FlexFlow to add acid until the target is reached. The 0960.L FlexFlow also supports variable-speed adjustment as probe readings change.



Features & Benefits

- Use in greenhouses for controlling pH
- Use on larger nursery applications where water quality is a problem
- Multiple output modes to help control a number of different pumps and alarms
- Float switch option to stop pumps from running dry

Model Number	Description
0960.NANOC	FlexFlow controller NANOC for controlling conductivity
0960.NANOP	FlexFlow controller NANOP for controlling pH

Dairy Clean

Multi-Product CIP System

The Dairy Clean product family provides a flexible, accurate solution for dispensing CIP chemicals. DC8410 and DC8411 units use a modular design supporting 1–6 pumps, with DEMA's Quick Change Pump delivering 16 oz (475 ml) per minute or the large QC Pump delivering 50 oz (1500 ml) per minute. Additional pumps can be added easily to achieve the desired configuration.



Features & Benefits

- Pre-wired for main power and trigger signals
- Easy to copy programming from one dispenser to another
- Digital display in 4 languages - English, Spanish, French and Portuguese
- Program up to 9 formulas with password protection
- Optional wired remote allows for convenient manual start and formula selection

Model Number	# of Pumps	Description
DC8410J.10	1	Small pump (16 oz/min), John Guest fittings, with electronic control unit
DC8410J.20	2	Small pump (16 oz/min), John Guest fittings, with electronic control unit
DC8410J.30	3	Small pump (16 oz/min), John Guest fittings, with electronic control unit
DC8411J.10	1	Large pump (50 oz/min), John Guest fittings, with electronic control unit
DC8411J.20	2	Large pump (50 oz/min), John Guest fittings, with electronic control unit
DC8411J.30	3	Large pump (50 oz/min), John Guest fittings, with electronic control unit

Additional configurations are available, contact us at sales@demaeng.com or speak with your DEMA sales representative for more information.

Trident

Programmable Batch Blending Solution with Bluetooth App

Trident is DEMA's addition to the peristaltic pump dispenser line that automates the mixing, blending, and delivery of nutrients and chemicals for fertigation in indoor/outdoor environments,greenhouses, and nurseries, as well as applications in hydroponics and aquaponics.



Features & Benefits

- DIN Rail Mounting
- Optional out of product sensors
- On-board programming or with Smart Device/PC
- Data management
- Trident pump stand accommodates up to 9 pumps
- Stores up to 100 formula combinations
- Flush manifold for nutrient blending with water

Model Number	Description
870.L3P6J.FP0	3 J pumps, 6 P pumps with Pro Select & Pro Access
870.L6P.FP0	6 P PUMPS with Pro Select & ProAccess
870.L9J.FP0	9 J pumps with Pro Select & Pro Access
870.L9P.FP0	9 P pumps with Pro Select & Pro Access

NOTE:
Shown above are the most common configurations. Many additional configurations are readily available, contact us at sales@demaeng.com or speak with your DEMA sales representative for more information.

J pumps - 16 oz/min
P pumps - 50 oz/min

8500 Series

Chemical Delivery System

The DEMA Chemical Delivery System (CDS) is designed to be flexible and adaptable for numerous applications to inject or blend a variety of chemicals and solutions.

8500 Series Teat Dip CDS System Blend and provide "ready to use" teat dip solutions in dairy milking parlors or other similar applications. The kit comes with various hardware items that provide a complete setup. RTU and Potable Water tanks included.

8501 Series CIP System (Clean In Place) System is designed to meter and dispense detergent, acid, and sanitizer during the pre- or post-milking cycle of a milking system. Working in conjunction with the system's flushing and cleaning process, the 8501 CIP receives trigger signals that automatically activate the chemical metering pumps, ensuring accurate and consistent chemical dosing throughout the cleaning cycle.

8502 Series Chemical Blending System is designed to accurately meter and blend chemicals for applications such as chlorine dioxide generation. Working in conjunction with the process control system, the 8502 receives external trigger signals that automatically activate the chemical metering pumps, ensuring precise and consistent chemical dosing throughout the dispensing cycle.



8500 System



Model Number	Potable Water
85.68.1	RTU Tank
85.68.2	Potable Water Tank
85.68.6	Top Mount Float for RTU



85.68.2



85.68.6



85.68.1

Solenoid Valves

Mini Diaphragm Valves

NORMALLY CLOSED
APPLICATION: Water, air, light oil, noncorrosive & nonexplosive liquids. 60 mesh stainless steel filter on series 442 and 443, rated for 180˚F/82˚C fluid and 120˚F/49˚C ambient.
SEAL: Available with EPDM (Std), Viton
MOPD: Max 125 PSI Min 3 PSI
BENEFITS: Mini diaphragm valve is cost competitive and not sensitive to contaminants in water.



P442, P443
NSF Std. 61, C-2 Approved

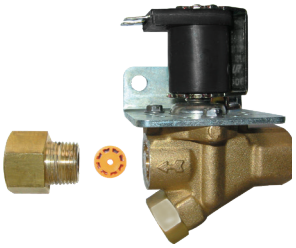


P462
NSF Std. 61, C-2 Approved

Model Number	Body	Pipe Size	Orifice
442/443P	Brass	1/4" & 3/8" NPT	1/4"
P442/P443	Celcon	1/4" & 3/8" NPT	1/4"
PP442/3	Polypropylene	1/4" & 3/8" NPT	1/4"
P462/3	Celcon	1/4" & 3/8" NPT	1/4"
463PS/464PS	303 SS	3/8" & 1/2" NPT	3/8"



463PS, 464PS 303 SS
NSF Std. 61, C-2 Approved



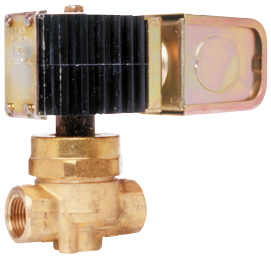
443PFB Flow Disc,
Optional disc available

Pilot-Piston Valves

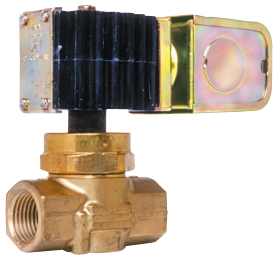
NORMALLY CLOSED
APPLICATION: Water, air, light oil, noncorrosive and nonexplosive liquids.
OPERATION: The stem and plunger assembly opens the port. This releases the pressure on top of the piston, which moves upward and opens the main valve port.

BODY: Brass
SEAL: Teflon
BENEFITS: High durability, Industrial construction

Valves rated 200F/93C fluid, 120F/49C ambient
All pilot piston valves have stainless steel seats

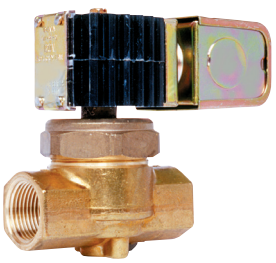


412/A413P



A414P

Model Number	Pipe Size	Orifice	MOPD	CV
412P	3/8" NPT	9/32"	150 PSI	1.2
412P.HP	3/8" NPT	9/32"	450 PSI	1.2
A413P	3/8" NPT	5/16"	150 PSI	2.0
A414P	1/2" NPT	7/16"	150 PSI	3.1
A414P.HP	1/2" NPT	7/16"	450 PSI	3.1
A416P	3/4" NPT	19/32"	150 PSI	5.0
A416P.HP	3/4" NPT	19/32"	450 PSI	5.0
A418P	1" NPT	3/4"	150 PSI	8.0
A418P.HP	1" NPT	3/4"	450 PSI	8.0



A416P



A418P

Solenoid Valves

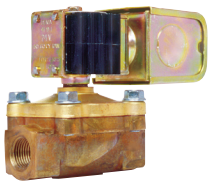
Diaphragm Valves

NORMALLY CLOSED
APPLICATION: Water, air, light oil, noncorrosive and nonexplosive liquids.
OPERATION: When energized, the plunger is pulled to the top plug, thus opening the small "pilot port" in the center of the diaphragm plate. This releases the pressure on top of the diaphragm allowing incoming pressure to lift it off the large center port. When de-energized, the solenoid plunger is pushed from the top plug by the kick-off spring and closes the pilot port. Fluid passes through the diaphragm bleed hole until pressure is equalized on both sides of the diaphragm to shut off the large port.

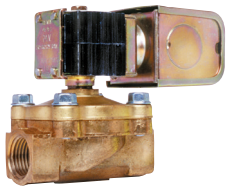
MOPD: Max 150 PSI Min 1 PSI
BENEFITS: Forgiving with contaminants in water
SEAL: BUNA Standard, Teflon available on most models

Suitable for up to 10 psi steam, 240F/115C with Teflon Diaphragm, add suffix (T) for Teflon Diaphragm

Valves rated 200F/93C fluid, 120F/49C ambient



473P



474P



476PS



478PS

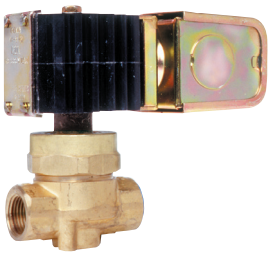
Model Number	Pipe Size	Orifice	CV
473P	3/8" NPT	9/16"	3.5
474P	1/2" NPT	9/16"	4.0
476P	3/4" NPT	3/4"	5.0
476PS	3/4" NPT	3/4"	5.0
478PS	1" NPT	1"	13.0

High Pressure Valves Up to 1200 psi

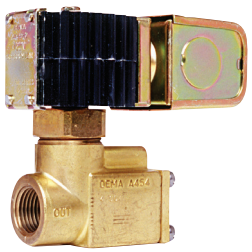
NORMALLY CLOSED
APPLICATION: Water, Air
All valves have stainless steel pistons and seats.
(S) designates stainless steel sleeve inside valve
OPERATION: Same as a pilot operated valve except the pilot port is in a separate chamber from the piston. This allows the plunger to operate closer to the top plug with more force and consequently higher opening pressure.

BODY: Brass
SEAL: Teflon
MOPD: Max 1200 PSI Min 10 PSI
BENEFITS: Industrial design and stainless steel pistons make for a workhorse valve.

Valves rated 200F/93C fluid, 120F/49C ambient



453P



454P

Model Number	Pipe Size	Orifice	CV
453P	3/8" NPT	7/20"	1.8
453S	3/8" NPT	7/20"	1.8
454P	1/2" NPT	1/2"	3.7
458P	1" NPT	15/16"	11.1
458PS	1" NPT	15/16"	11.1

Foaming Equipment

Wall Mounted Compressed Air Foamer

Part# 900.WALL

The wall mounted foamer operates with a pre-mix solution of foaming chemicals and water. The unit produces 30 gallons of foam per minute and covers 5-10 cubic feet per minute at 40-80 PSI with up to 35 feet of foam distance.



Foam Station II Foamer

Part# 693T.COM

Foam Station Dispensers are compressed air foaming systems that use a PVC foamer body, an air pressure gauge with control, and an on/off ball valve to control airflow. The unit is housed in an impact-resistant plastic cover with a large label area for product and use identification. Applications for these units include all food processing and food service areas, industrial plants, school shower areas, and other areas that require foaming chemicals to help clean. Units require compressed air and at least 40 psi water pressure to produce quality foam.



Spray Max 4: Multi-Product Cleaning System

Part# 6800 / 6805

The Spray Max 4 is DEMA's latest multi-product spray and cleaning system. It is a simple solution designed to streamline and dispense up to 4 different products. This system features push-button valves with a venturi injector and selector. Spray Max 4 has been designed with ease of installation, use, and service in mind.



Foaming Accessories



40.14QD/292QD
Spray Gun and Foam Wand



44.3N.25
25 Feet (8 meters) nylon braided outlet hose

44.3
25 Feet (8 meters) black outlet hose

44.3RG (shown)
25 Feet (8 meters) red outlet hose



29.QD & 292GQD
Spray Gun and Wand set



44.3N.6
6 feet (2 meters) nylon braided water supply hose

44.3.6 (shown)
6 feet (2 meters) black water supply hose

Portable Foaming

Pump Up Sprayer

Part# 900.2PU

The pump-up foamer provides spot cleaning and sanitation solutions for the industrial and agricultural markets. The unit draws the chemical and air from the tank creating thick foam when mixed at the trigger operated foam wand.



Mobile Cart Compressed Air Foamer

Part# 910N

The 910 offers an innovative tank design that allows for easy storage and foam cleaning. The non-pressurized tank promotes safety and consistent foam time after time. 5, 10, and 20 gallon versions are available.



Mobile Cart Compressed Air Foamer

Part# 925N

The 25 gallon portable foamer offers innovative features and ergonomics for industrial and agricultural foam cleaning. This unit's four-wheel design allows for a wide range of mobility and the convenient drain feature allows for easy drainage.



ProFoam & ProSpray

Portable Foaming & Spraying

The ProFoam & ProSpray hose-end units provide a durable and convenient way to simultaneously dilute and apply chemicals to a variety of surfaces. The units easily attach to a water source with a standard ¾" garden hose fitting.

Model Number	Description
291	Handheld foamer, ProFoam
292	Handheld sprayer, ProSpray



292 ProSpray



291 ProFoam

MixRite Accessories

Water Supply Hoses



DEMA manufactures a variety of water supply hoses for different applications. DEMA inlet hoses are rated to 200 psi, made of durable double-walled rubber

44.3N.6

Contact for addional options

Spray Gun and Foam Wand



The DEMA Spray Gun and Foam Wand set is a simple but effective foam application system. Easily connect to a MixRite with a standard garden hose to begin foaming. To rinse off surfaces, simply remove the Foam Wand and use the Spray Gun.

Spray Gun: #29.QD
Foam Wand: #292GQD

Strainer



The DEMA 3/4" NPT strainer is an in-line 200 mesh (80 microns strainer recommended for all MixRite installations. The in-line strainer will keep debris out of the MixRite unit, increasing the life of the seals.

#50.41.1

White Foot Valve Strainer



3/4" white foot valve strainer prevents debris from entering the unit through the chemical inlet tubing.

#57.34FTV

3/4" Check Valve



The DEMA check valve helps limit backflow situations if the unit is used to pump the mixture any significant distance.

#57.20.8

3/4" Anti-Siphon Kit



For any 3/4" MixRites to relieve pressure so chemical will not siphon out of drum or tank.

#36073008002

UFR – Low Flow Booster



The 57.UFR low flow booster works with any 500 series MixRite to take low flows (less than .9gpm) and allows the unit to work in low flow conditions.

#57.UFR

Pressure Regulator & Gauge



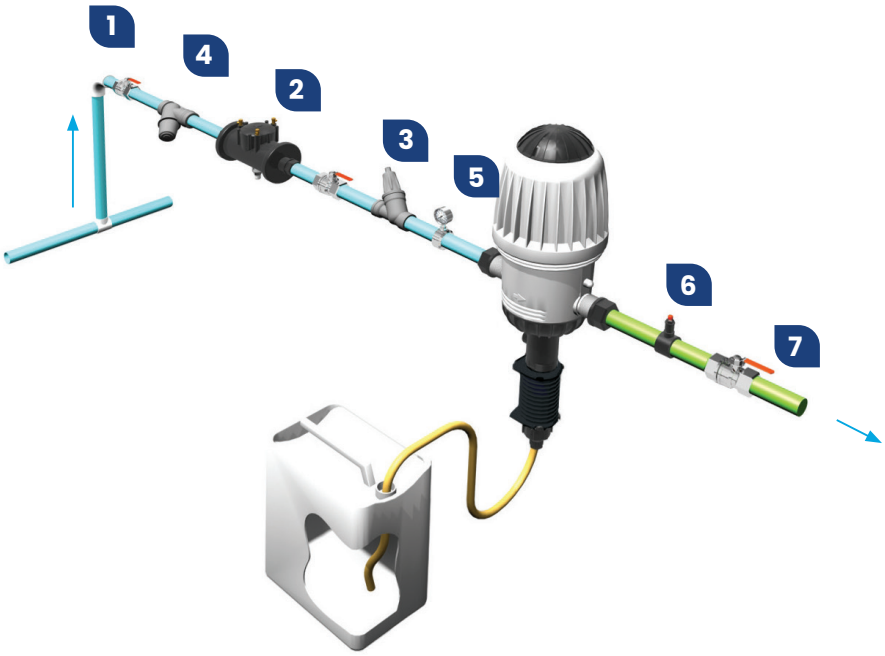
Fits in-line with any MixRite to limit pressure spikes.

Regulator: #38030200001
Gauge: #93.15.1

Typical MixRite Installations

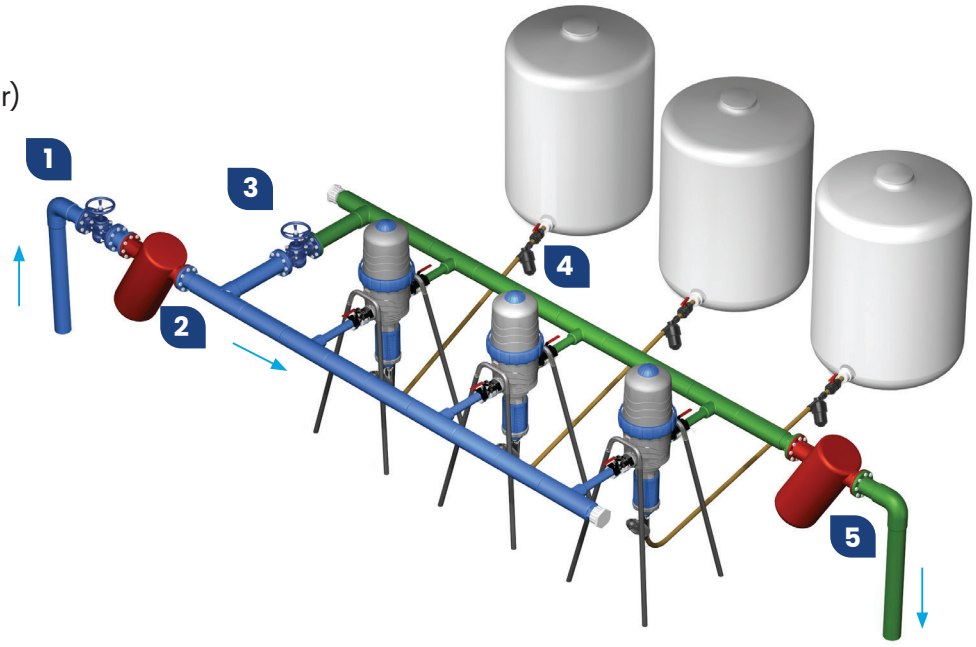
500 Series Classic In-Line Installation

1. Main Valve
2. Back Flow Preventer
3. Pressure Regulator
4. Filter - 120 Mesh (130 Micron Min.)
5. Pressure Gauge
6. Anti Siphon Valve
7. Operation Valve



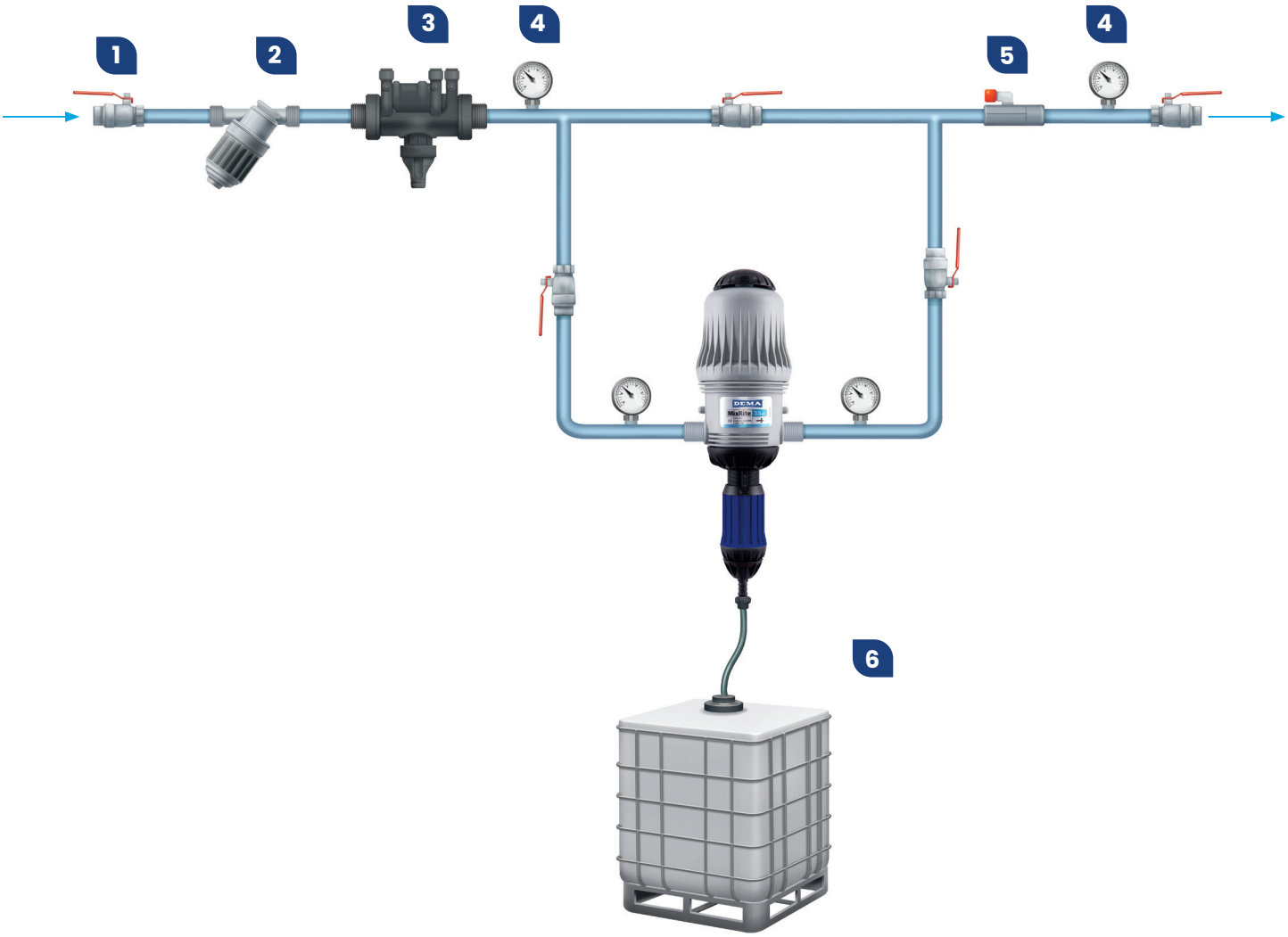
TF Models in Basic Parallel Installation

1. Main Water Valve
2. Main Water Filter
3. Gate Valve
4. Fertilizer Solution Filter
5. Mixing Chamber (Empty Filter)



Typical Bypass Installation When Using Large Fertilizer Tanks

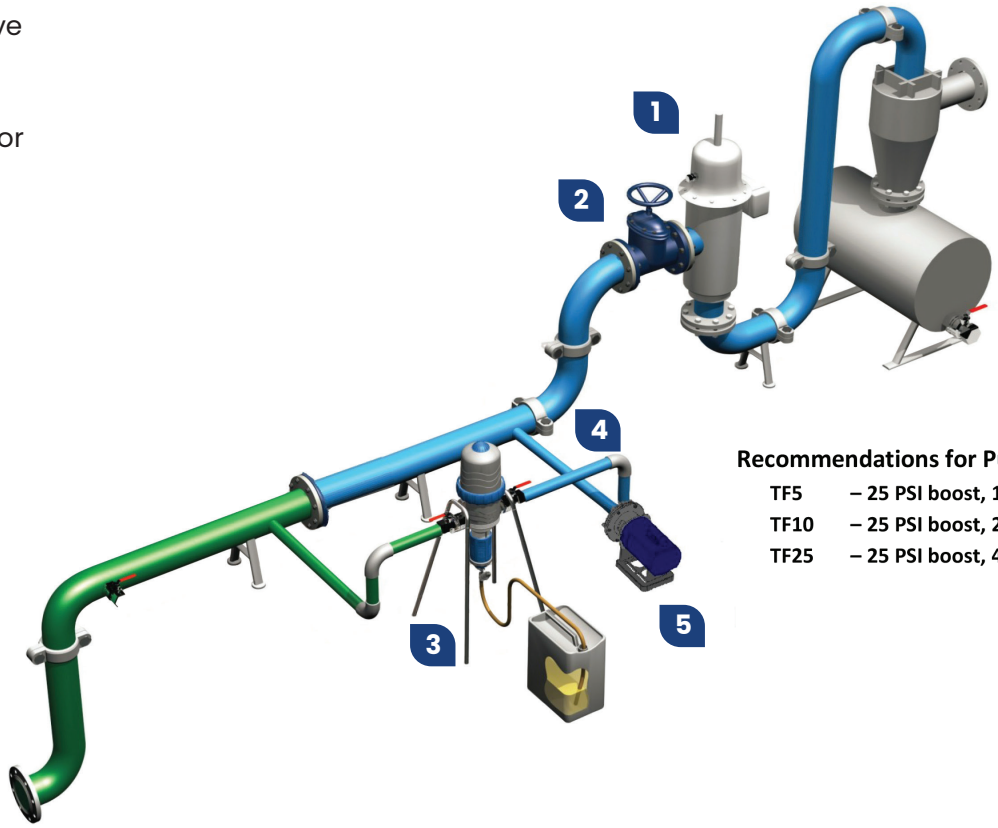
1. Valve
2. Filter
3. Backflow Preventer
4. Pressure Gauge
5. Anti Siphon Valve
6. Additive Tank



Typical MixRite Installations

TF Model Large Bypass Installation:

1. Main Water Valve
2. Choking Valve
3. MixRite TF Injector
4. 2" Bypass Line
5. Booster Pump

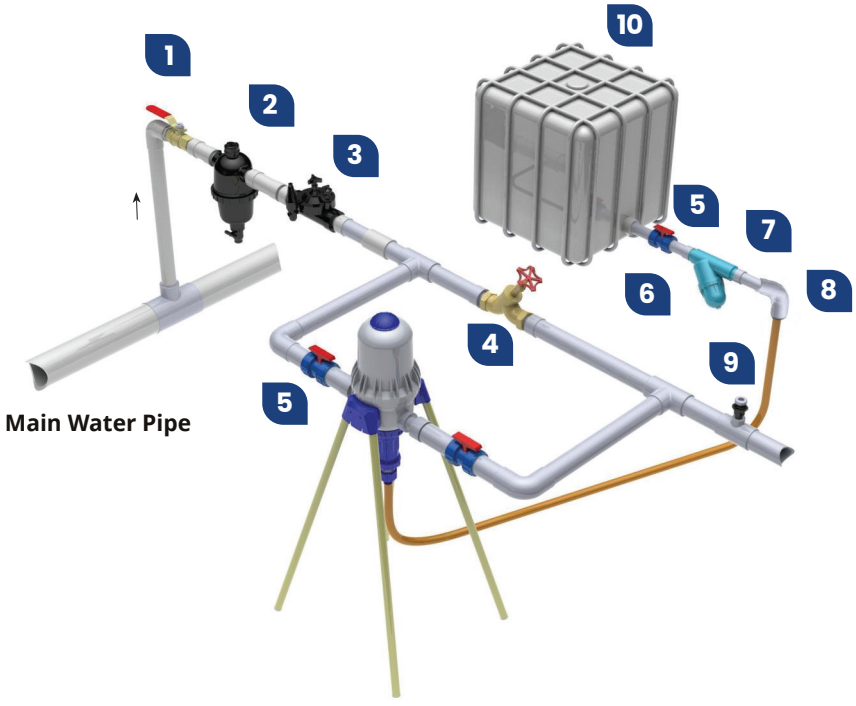


Recommendations for Pump Sizes

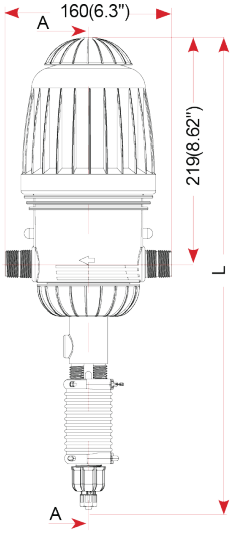
TF5	– 25 PSI boost, 10 to 22 GPM
TF10	– 25 PSI boost, 22 to 45 GPM
TF25	– 25 PSI boost, 45 to 110 GPM

TF Models in Basic Bypass Installation

1. Main Water Valve
2. Main Water Filter (125 Micron Min)
3. Pressure Reducing Valve
4. Throttle Valve
5. Combined Union & Plastic Valve
6. 5/16" Command Line
7. Fertilizer Resistant Filter
8. Safety Normally Closed Hydraulic Valve
9. Anti Siphon Valve
10. Fertilizer Solution Tank

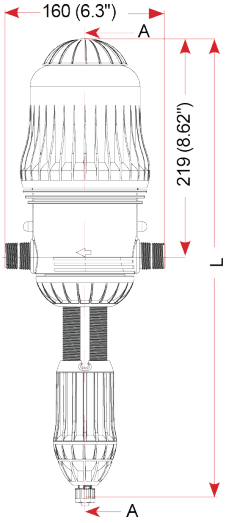


MixRite Specifications (in millimeters and inches)



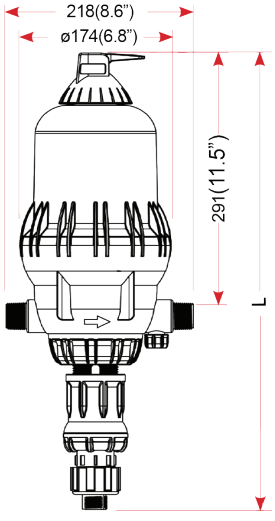
	L (Height)	
	On/Off	Air Release
Max.	528 (20.7")	496 (19.5")
Min.	497 (19.5")	457 (17.9")

MixRite 500 Models



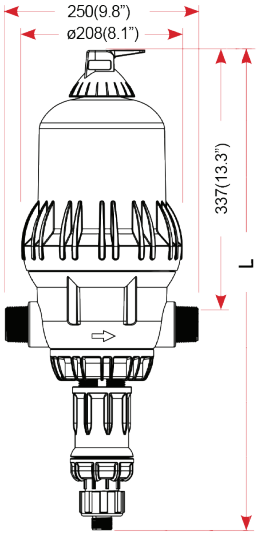
	L (Height)	
	On/Off	Air Release
Max.	551 (21.7")	486 (19.1")
Min.	471 (18.5")	447 (17.6")

MixRite 1400 Models



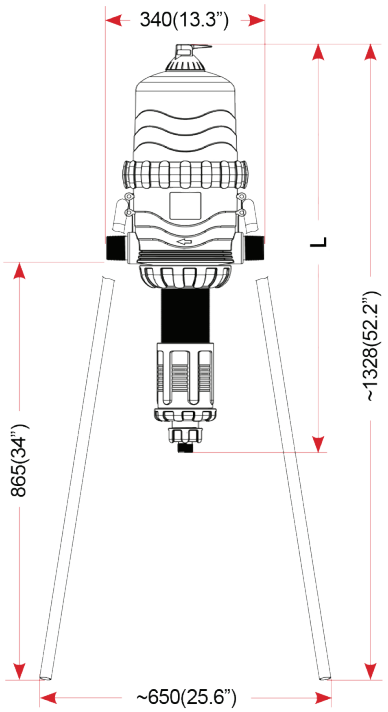
	L (Height)
	On/Off
Max.	680 (26.7")
Min.	585 (23")

MixRite TF-5 Models



	L (Height)
	On/Off
Max.	760 (29.9")
Min.	720 (28.34")

MixRite TF-10 Models

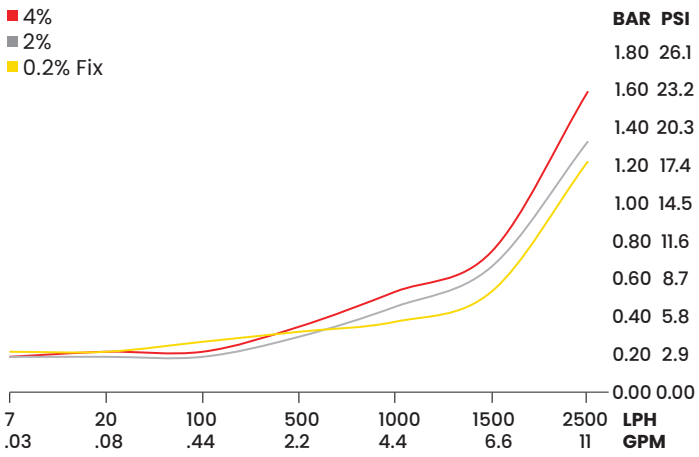


	L (Height)
	On/Off
Max.	1030 (40.5")
Min.	880 (34.6")

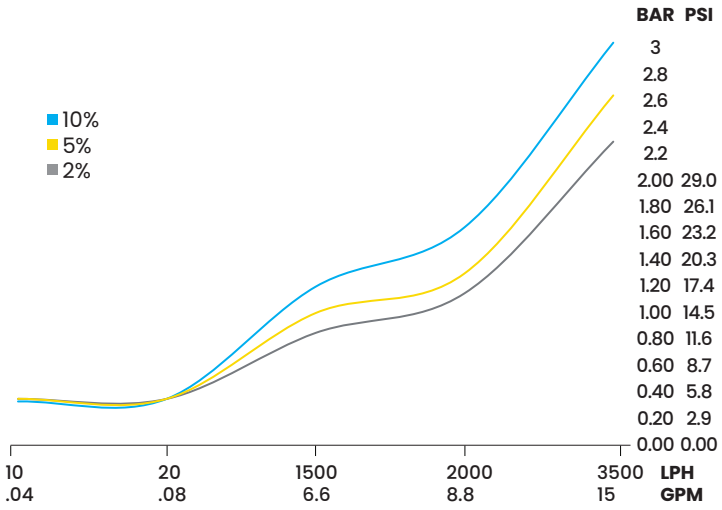
MixRite TF-25 Models

Pressure Loss

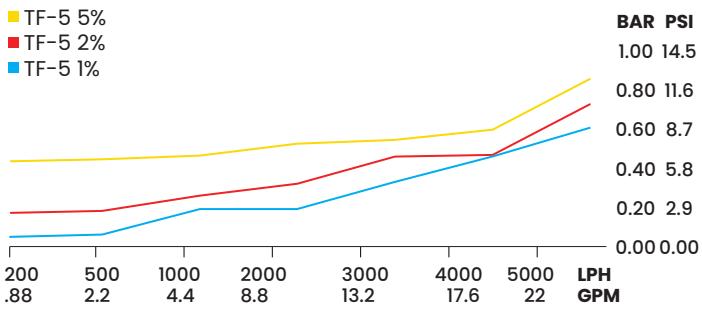
MixRite 500



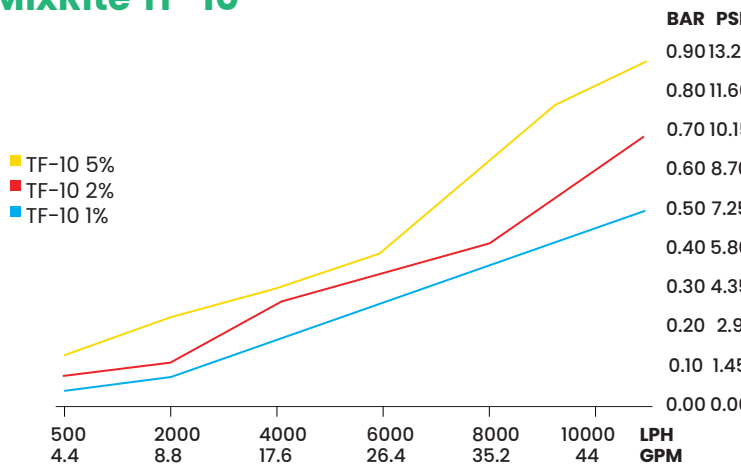
MixRite 1400



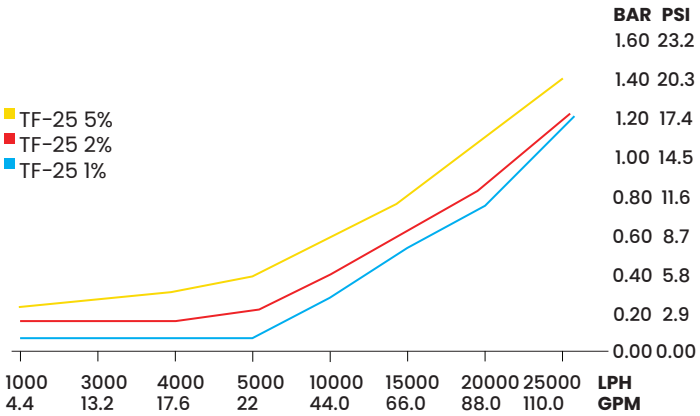
MixRite TF-5



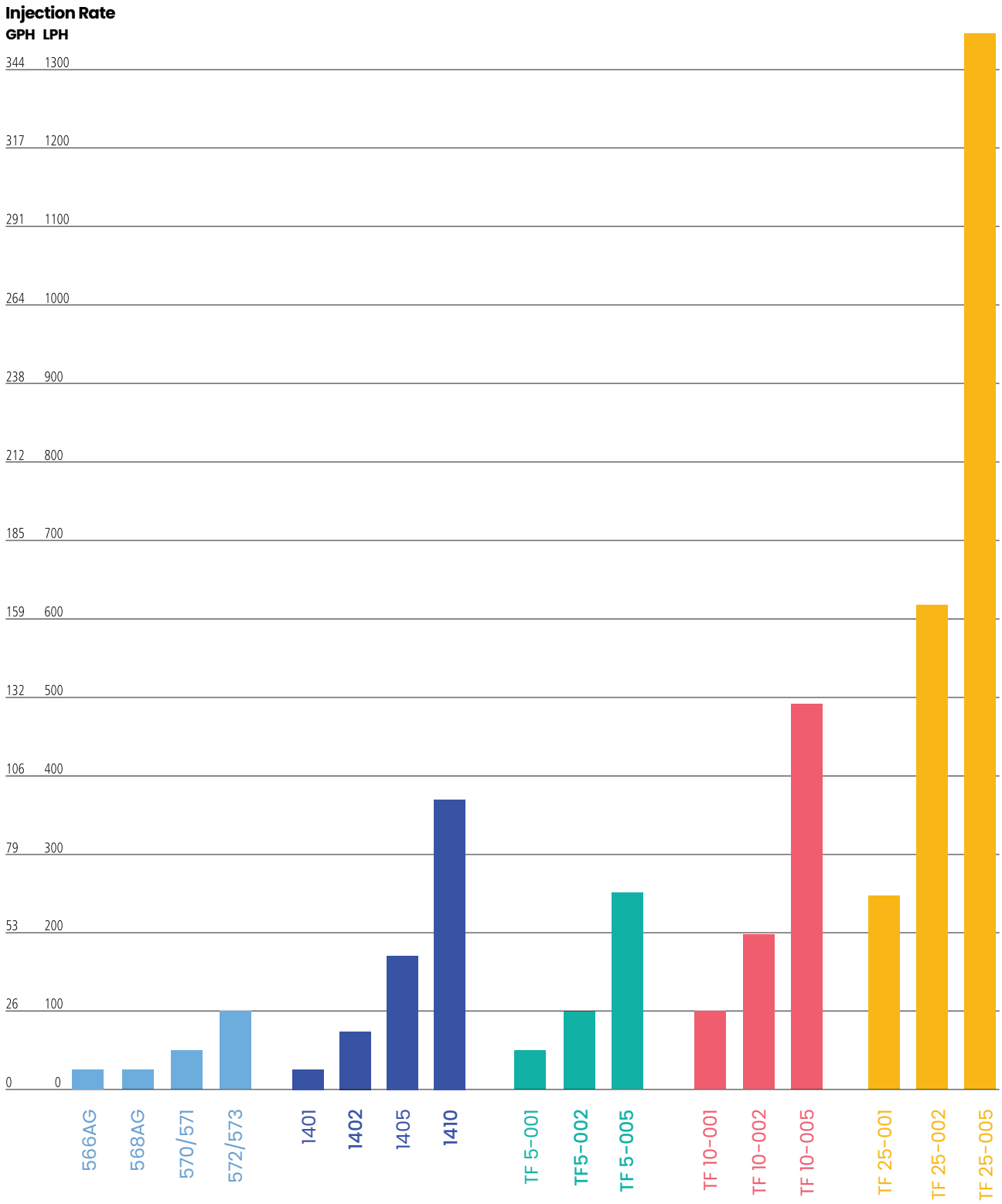
MixRite TF-10



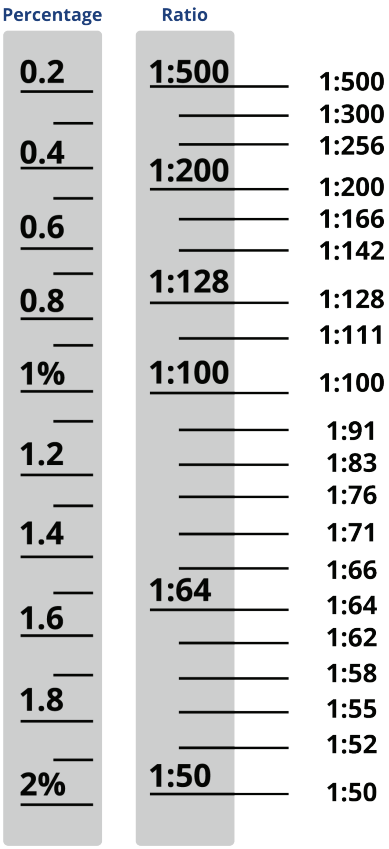
MixRite TF-25



MixRite Max Injection Rate Per Hour



MixRite Dilution Conversion Chart



Ounce = 29.57 Milliliters
1 Gallon = 3.79 Liters

*Volume of Product Injected
Per Volume of Incoming Water

Percentage	Ratio	Oz/Gallon	PPM	ML/GAL	TSP/Gal
0.10%	1:1000	0.128	1,000	3.8	0.8
0.13%	1:750	0.17	1,300	5	1
0.20%	1:500	0.256	2,000	7.6	1.5
0.25%	1:400	0.32	2,500	9.5	1.9
0.26%	1:375	0.34	2,600	10	2
0.30%	1:333	0.384	3,000	11	2.3
0.33%	1:303	0.4224	3,300	12	2.5
0.40%	1:250	0.512	4,000	15	3.1
0.50%	1:200	0.64	5,000	19	3.8
0.60%	1:167	0.768	6,000	23	4.6
0.70%	1:143	0.896	7,000	26	5.4
0.75%	1:133	0.96	7,500	28	5.8
0.80%	1:125	1.024	8,000	30	6.1
0.90%	1:111	1.152	9,000	34	6.9
1.00%	1:100	1.28	10,000	38	7.7
1.10%	1:91	1.408	11,000	42	8.4
1.25%	1:80	1.6	12,500	47	9.6
1.30%	1:77	1.664	13,000	49	10
1.40%	1:71	1.792	14,000	53	11
1.50%	1:67	1.92	15,000	57	12
1.60%	1:63	2.048	16,000	61	12
1.70%	1:59	2.176	17,000	64	13
1.75%	1:57	2.24	17,500	66	13
1.80%	1:56	2.304	18,000	68	14
1.90%	1:53	2.432	19,000	72	15
2.00%	1:50	2.56	20,000	76	15
2.25%	1:44	2.88	22,500	85	17
2.50%	1:40	3.2	25,000	95	19
2.75%	1:36	3.52	27,500	104	21
3.00%	1:33	3.84	30,000	114	23
3.50%	1:29	4.48	35,000	132	27
4.00%	1:25	5.12	40,000	151	31
5.00%	1:20	6.4	50,000	189	38
6.00%	1:17	7.68	60,000	227	46
7.00%	1:14	8.96	70,000	265	54
8.00%	1:13	10.24	80,000	303	61
9.00%	1:11	11.52	90,000	341	69
10.00%	1:10	12.8	100,000	379	77

MixRite General Technical Information

Model	Flow Range	Pressure Range	Dosage Rate %	Ratio	Connection	Injection Rate
566AG	.8-11 GPM 180-2500 LPH	2.9 - 120 PSI 0.2-8 Bar	1% Fixed	1:100	3/4" NPT	.5-6.6 gph 1.9-25 lph
568AG	.8-11 GPM 180-2500 LPH	2.9 - 120 PSI 0.2-8 Bar	0.8% Fixed	1:128	3/4" NPT	.38-5.2 gph 1.4-20 lph
569	.8-11 GPM 180-2500 LPH	2.9 - 120 PSI 0.2-8 Bar	0.1-0.9%	1:1000-1:111	3/4" NPT	.05-5.95 gph .19-22.5 lph
570/571	.8-11 GPM 180-2500 LPH	2.9 - 120 PSI 0.2-8 Bar	0.3-2%	1:333-1:50	3/4" NPT	.14-13.2 gph .55-50 lph
572/573	.8-11 GPM 180-2500 LPH	2.9 - 120 PSI 0.2-8 Bar	0.4-4%	1:250-1:25	3/4" NPT	.19-26.4 gph .7-100 lph
577IN	.8-11 GPM 180-2500 LPH	2.9 - 120 PSI 0.2-8 Bar	0.3-2%	1:333-1:50	3/4" NPT	.14-13.2 gph .55-50 lph
579IN	.8-11 GPM 180-2500 LPH	2.9 - 120 PSI 0.2-8 Bar	0.4-4%	1:250-1:25	3/4" NPT	.19-26.4 gph .7-100 lph
1400	.8-14 GPM 180-3500 LPH	2.9 - 120 PSI 0.2-8 Bar	0.03-0.2%	1:3333-1:333	3/4" NPT	.01-2.5 gph .05-9.5 lph
1401	.8-14 GPM 180-3500 LPH	2.9 - 120 PSI 0.2-8 Bar	0.1-0.9%	1:1000-1:111	3/4" NPT	.05-5.95 gph .19-22.5 lph
1402	.8-14 GPM 180-3500 LPH	2.9 - 120 PSI 0.2-8 Bar	0.3-2%	1:333-1:50	3/4" NPT	.14-13.2 gph .55-50 lph
1405	.8-14 GPM 180-3500 LPH	2.9 - 120 PSI 0.2-8 Bar	0.5-5%	1:200-1:20	3/4" NPT	.24-42 gph .9-159 lph
1410	.8-14 GPM 180-3500 LPH	2.9 - 120 PSI 0.2-8 Bar	1-10%	1:100-1:10	3/4" NPT	.48-84 gph 1.8-318 lph
TF.3.002	.8-11 GPM 180-2500 LPH	2.9 - 120 PSI 0.2-8 Bar	0.3-2%	1:333-1:50	1" NPT	.14-13.2 gph .55-50 lph
TF.3.004	.8-11 GPM 180-2500 LPH	2.9 - 120 PSI 0.2-8 Bar	0.4-4%	1:250-1:25	1" NPT	.19-26.4 gph .7-100 lph
TF.5.001	1-22 GPM 200-5000 LPH	14.7-120 PSI 1-8 Bar	0.1-1%	1:1000-1:100	1" NPT	.06-13.2 gph .22-50 lph
TF.5.002	1-22 GPM 200-5000 LPH	14.7-120 PSI 1-8 Bar	0.2-2%	1:500-1:50	1" NPT	.12-26.4 gph .45-100 lph
TF.5.005	1-22 GPM 200-5000 LPH	14.7-120 PSI 1-8 Bar	1-5%	1:100-1:20	1" NPT	.6-66 gph 2-250 lph
TF.10.001	2-45 GPM 500-10000 LPH	14.7-120 PSI 1-8 Bar	0.1-1%	1:1000-1:100	1-1/2" NPT	.12-27 gph .45-100 lph
TF.10.002	2-45 GPM 500-10000 LPH	14.7-120 PSI 1-8 Bar	0.2-2%	1:500-1:50	1-1/2" NPT	.24-54 gph .9-200 lph
TF.10.005	2-45 GPM 500-10000 LPH	14.7-120 PSI 1-8 Bar	1-5%	1:100-1:20	1-1/2" NPT	1.2-135 gph 4.5-500 lph
TF.25.001	9-110 GPM 2000-25000 LPH	14.7-120 PSI 1-8 Bar	0.1-1%	1:1000-1:100	2" NPT	.54-66 gph 2-250 lph
TF.25.002	9-110 GPM 2000-25000 LPH	14.7-120 PSI 1-8 Bar	0.3-2.5%	1:333-1:40	2" NPT	1.62-165 gph 6-625 lph
TF.25.005	9-110 GPM 2000-25000 LPH	14.7-120 PSI 1-8 Bar	1-5.5%	1:100-1:18	2" NPT	5-366 gph 20-1400 lph

Most Popular MixRites

500/TF.3 Series

Flow Range	Pressure Range
0.8 - 11 GPM	2.9 - 120 PSI
180 - 2500 LPH	0.2 - 8 Bar
3/4" and 1" NPT Connection	
The 500/TF.3 Series has options such as an internal bypass and PVDF models for the most aggressive additives. After choosing your model check with your representative for the availability of these options if needed.	

Dosage Rate %	Ratio	Injection Rate	Model
1% Fixed	1:100	0.5-6.6 gph	566AG
		1.9-25 lph	
0.8% Fixed	1:128	0.38-5.2 gph	568AG
		1.4 - 20 lph	
0.1 - 0.9%	1:1000 - 1:111	0.05-5.95 gph	569CWONOFF
		0.19-22.5 lph	
0.3 - 2%	1:333 - 1:50	0.14-13.2 gph	570CW
		0.55-50 lph	571CW / TF3.002ON/OFF
0.4 - 4%	1:250 - 1:25	0.19-264 gph	572CW
		0.7-100 lph	573CW / TF3.004ON/OFF

1400 Series

Flow Range	Pressure Range
0.8 - 14 GPM	2.9 - 120 PSI
180 - 3500 LPH	0.2 - 8 Bar
3/4" NPT Connection	
The MixRite 1400 series model numbers have either an A or M at the end of them. The A stands for Air Release and the M stands for a manual on / off valve for the chemical.	

Dosage Rate %	Ratio	Injection Rate	Model
0.03 - 0.2%	1:3333 - 1:333	0.1-2.5 gph	1400A
		0.05 - 9.5 lph	1400M
0.1 - 0.9%	1:1000 - 1:111	0.05 - 5.95 gph	1401A
		0.19 - 22.5 lph	1401M
0.3 - 2%	1:333 - 1:50	0.14 - 13.2 gph	1402A
		0.55 - 50 lph	1402M
0.5 - 5%	1:200 - 1:20	0.24 - 42 gph	1405A
		0.9 - 159 lph	1405M
1 - 10%	1:100 - 1:10	0.48 - 84 gph	1410A
		1.8 - 318 lph	1410M

TF.5 Series

Flow Range	Pressure Range
1 - 22 GPM	14.7 - 120 PSI
200 - 5000 LPH	1 - 8 Bar
1" NPT Connection	
Optional Viton seals.	

Dosage Rate %	Ratio	Injection Rate	Model
0.1 - 1%	1:1000 - 1:100	0.06 - 13.2 gph	TF.5.001CL.PAAON/OFF
		0.22 - 50 lph	
0.2 - 2%	1:500 - 1:50	0.12 - 26.4 gph	TF.5.002ON/OFF TF5.002.V.ON/OFF
		0.45 - 100 lph	
1 - 5%	1:100 - 1:20	0.6 - 66 gph	TF.5.005ON/OFF TF.5.V.005ON/OFF
		2 - 250 lph	

TF.10 Series

Flow Range	Pressure Range
2 - 45 GPM	14.7 - 120 PSI
500 - 10000 LPH	1 - 8 Bar
1-1/2" NPT Connection	
Abreviated #'s, chemical on / off valves included, 001 model has optional Viton seals.	

Dosage Rate %	Ratio	Injection Rate	Model
0.1 - 1%	1:1000 - 1:100	0.12 - 27 gph	TF.10.001CL.PAAON/OFF
		0.45 - 100 lph	
0.2 - 2%	1:500 - 1:50	0.24 - 54 gph	TF.10.002ON/OFF
		0.9 - 200 lph	
1 - 5%	1:100 - 1:20	1.2 - 135 gph	TF.10.005ON/OFF
		4.5 - 500 lph	

TF.25 Series

Flow Range	Pressure Range
9 - 110 GPM	14.7 - 120 PSI
2000 - 25000 LPH	1 - 8 Bar
2" NPT Connection	
Abreviated model #'s, chemical on / off valves included, 001 model has optional Viton seals.	

Dosage Rate %	Ratio	Injection Rate	Model
0.1 - 1%	1:1000 - 1:100	0.54 - 66 gph	TF.25.001CL.PAAON/OFF
		2 - 250 lph	
0.3 - 2.5%	1:333 - 1:40	1.62 - 165 gph	TF.25.002ON/OFF
		6 - 625 lph	
1 - 5.5%	1:100 - 1:18	5 - 366 gph	TF.25.005ON/OFF
		20 - 1400 lph	

85+ YEARS OF FLUID AND DILUTION CONTROL EXPERTISE

Founded in 1940, DEMA Engineering Company has grown into a global leader in fluid control and chemical dispensing. We embrace our heritage while pursuing innovation, manufacturing excellence, and engineering that endures.

Our mission has stayed the same since day one: deliver the most reliable, safe, and accurate way to dispense concentrated chemicals. What began with water-driven equipment has evolved into a full portfolio of electronic dispensers, solenoid valves, injectors, and fluid control devices. Today, we serve customers across the kitchen, food service, laundry, industrial, agricultural, and specialty markets worldwide, holding quality and safety to the highest standard.



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