

FERTIGATION PUMP



The objectives of fertigation is to add necessary nutrition in precise quantities and constantly for optimal growth of crops. MixRite PROPORTIONAL DOSING Technology offers a superior solution in terms of Precise, Even & Continuous dosing of fertilizers, pesticides or any other water-soluble products into the line, to maintain a desired EC value all the time.

Features:

1. Accurate dosage of fertilizer (or any liquid), even & continuous; as per the defined rate, even at different working pressures.
2. Mixes Precise quantity of fertilizers (or liquid) throughout the irrigation cycle.
3. Dosing rates are easily adjustable.
4. Non-electric, operates with water pressure.
5. Highly chemical resistance.
6. Highly resistant to UV.
7. Simple & user friendly.

Benefits:

1. Substantial Reduction in Fertilizers Cost, due to less fertilizer consumption, by highly increasing the fertilizer use Efficiency (over traditional methods of venturi and fertilizer tanks).
2. Increase in Yields due to increase in nutrient use efficiency.
3. Limits leaching due to small but frequent addition of nutrients.
4. Saves water, product & labour.
5. No chance of manual errors.
6. Convenience of application (need not to be present there to assure injection).
7. Unlike other systems, PROPORTIONAL dosing provides uniform distribution of the product over the entire cycle.
8. Easy Installation.
9. Easy Maintenance.



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TEFEN Israel
FLOW & DOSING TECHNOLOGIES

MixRite



FERTIGATION PUMP

Operating Principle:

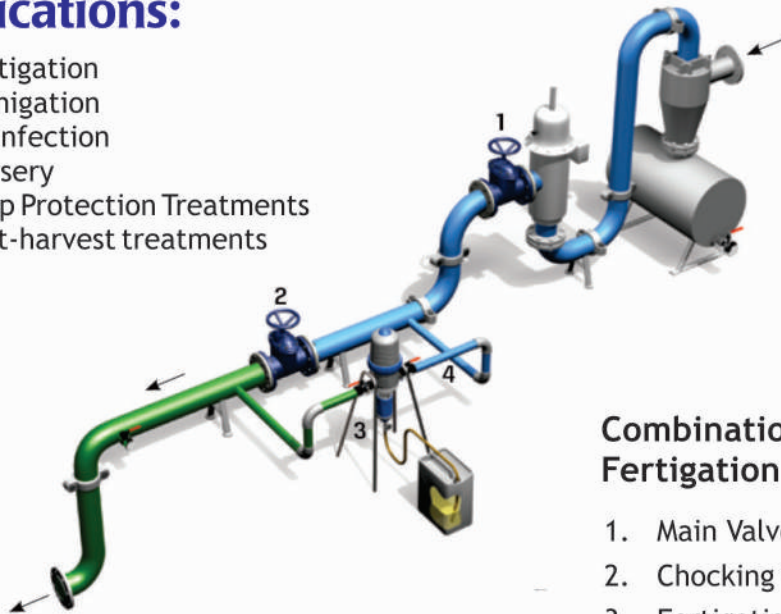
1. The unit will automatically start working when water is flowing in the line and turn off when water stops.
2. Also has ON/OFF mode.

Advantages over Venturi system:

1. Non-proportional, no dosing, only injecting.
2. High pressure loss.
3. Variation in injection with viscosity and temperature of fertilizer solution.
4. Risk of Under or Overdosing.
5. Injection varies with pressure.
6. No possibility of adjusting the injection rate & so no precision.

Applications:

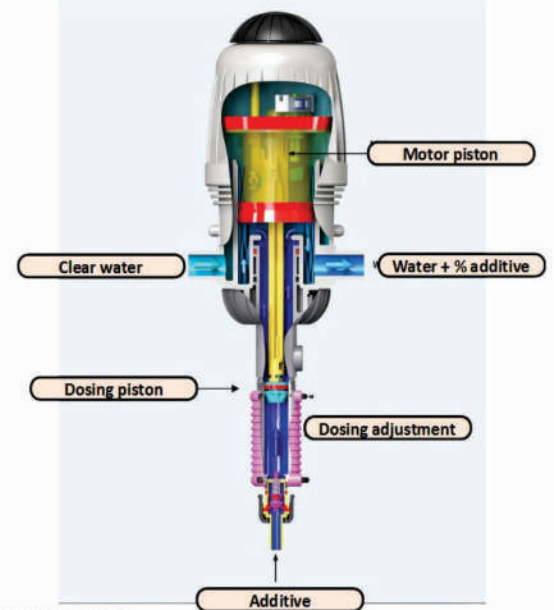
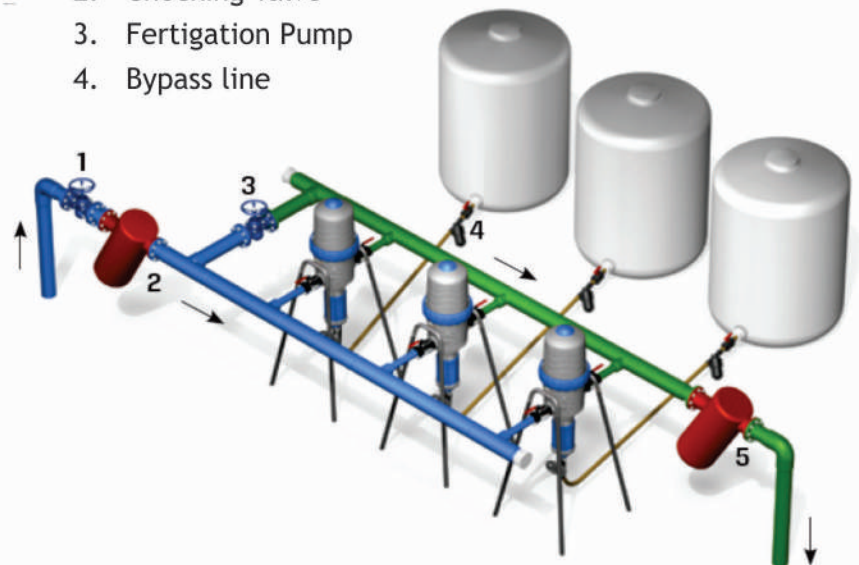
1. Fertigation
2. Fumigation
3. Disinfection
4. Nursery
5. Crop Protection Treatments
6. Post-harvest treatments



Typical Installations:

Typical Bypass array installation for three Fertigation Pump.

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



Range:

Flow Rate	Pressure Range	Min-Max Injection Rate Per Hour
2.5 m ³ /h	0.2-8.0 bar	0.028-100 l/h
3.5 m ³ /h	0.2-8.0 bar	0.50-350 l/h
5 m ³ /h	1.0-8.0 bar	1.0-250 l/h
10 m ³ /h	1.0-8.0 bar	5.0-500 l/h
25 m ³ /h	1.0-8.0 bar	20.0-1375 l/h

Combination of main filtration station and Fertigation Pump on a bypass installation.

1. Main Valve
2. Chocking Valve
3. Fertigation Pump
4. Bypass line



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