

Maric Flow Control Valves

Constant
Flow Rate
Regardless
of Pressure

Irrigation & Farming requires controlled water flow in numerous applications. Maric Flow Control Valves are often used in the following applications;

- **Centrifugal pump protection** – Maric flow controllers can prevent cavitation or thrust bearing damage caused from excessive flow rate. (refer *Pump Protection (Centrifugal)* pages 14 & 15 for more information.)
Too high a flow rate can damage pumps when;
 - Gate valve is unwittingly opened
 - High standing water table exists at start-up
 - Pipework is empty at start-up
 - Capacity of bore deteriorates below current pumping rate
 - Pipework bursts
 - Pump is required for two different flow rate duties
- **When an authority enforces limits to, (or reduced) pumping rates, with a non-adjustable valve.**
- **Preventing electric motor overload** – limiting pump output also limits power draw and potential overload tripping.
- **Preventing nuisance low-pressure motor tripping** - often caused by too high a demand from too many irrigation blocks open at the one time. (It can be a long walk or drive to re-start pumps!).
- **Fertiliser dosing for irrigation** – refer *Irrigation & Farming* page 13 for more information
- **Vitamin dosing for stock** – dosing equipment.
- **Prevent pumps from tripping on overload**
- **Equitable distribution over vast distances** (cap and pipe the bore schemes) – provides an economical means of distributing water to numerous properties over vast distances. Limiting flow to a known maximum flow rate will ensure mains pressure is maintained and the last property will receive their allocation.
- **Irrigation Water Treatment** – Backwash flow rate control
- **Sprinkler control** – over-spraying wastes water and under-spraying wastes time (ensures consistent output irrespective of sprinkler elevation or available pressure.)
- **Tank/water trough fill rate control** – Limiting flow to known maximum flow rate, will ensure adequate line pressure to the end of the water main.

Controlled flow protects submersible centrifugal pump

Gunmetal wafer type valve mounted between flanges

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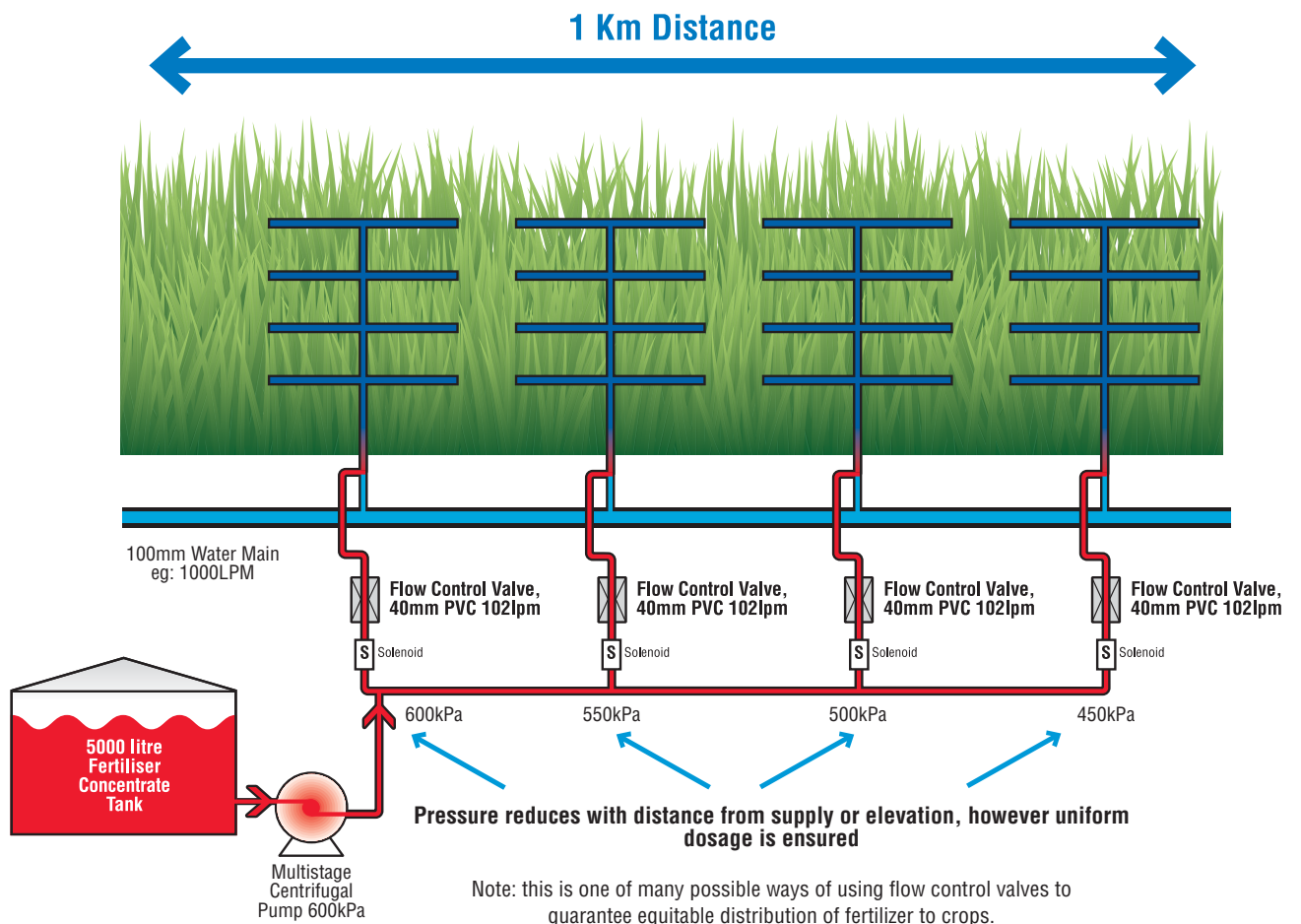


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Control Valves

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Fertigation Using Maric Flow Controllers

In spite of available pressure, or distance from supply, or elevation
flow control valves ensure uniform fertilizer delivery.



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Typical Maric flow control valve,
40mm F&F PVC Precision,
102 litres per minute

