

**Maric Constant
Flow Valves**

Constant
Flow Rate
Regardless
of Pressure



Est. 1963

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.

- **Fertiliser dosing for irrigation** – refer *Irrigation & Farming page 13 for more information*

- **Vitamin dosing for stock** – dosing equipment.

- **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.

- **Prevent collapse of bore**

Controlled flow protects submersible centrifugal pump

Gunmetal wafer type valve mounted between flanges



www.maric.com

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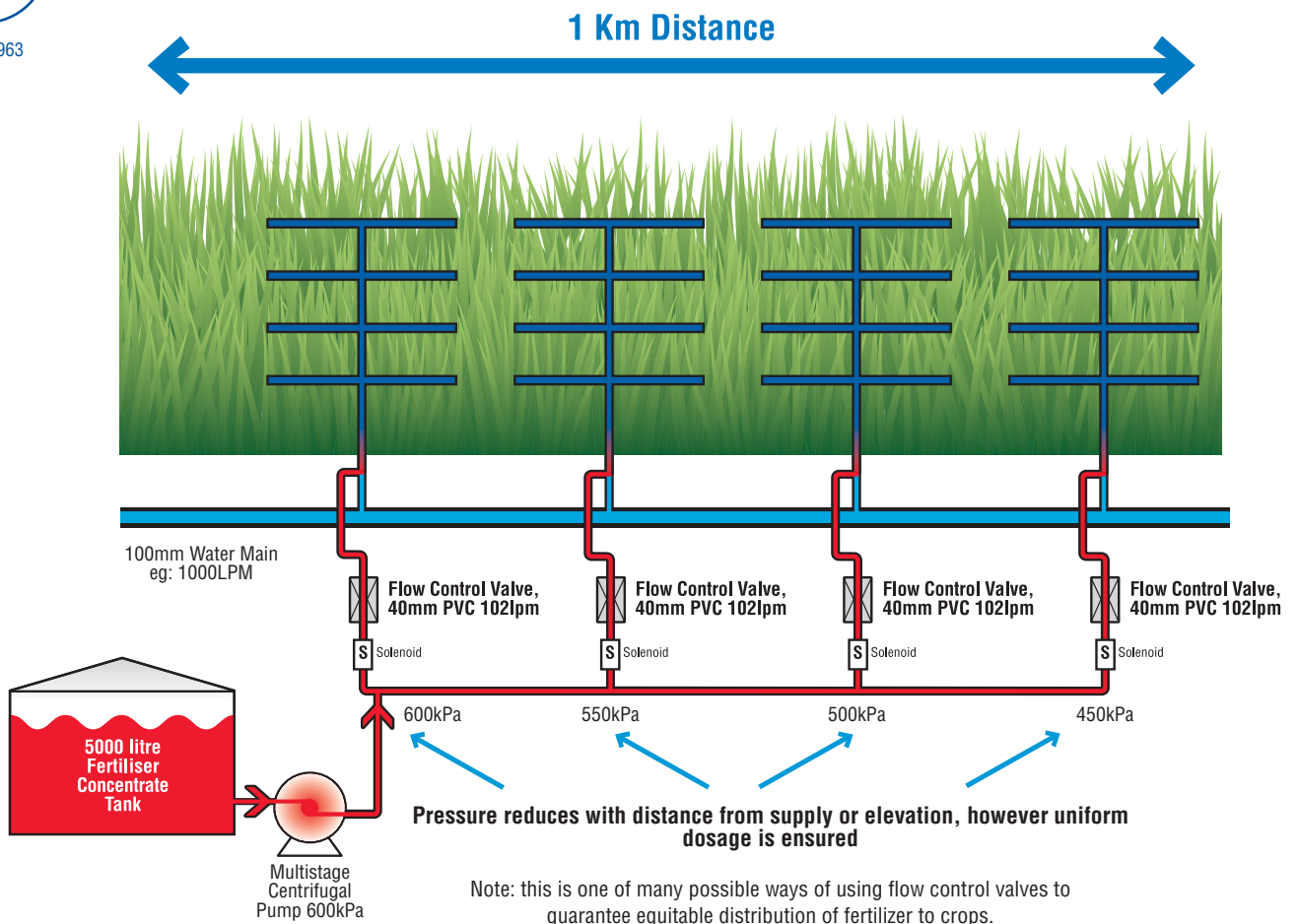
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Fertigation Using Maric Flow Controllers

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

