

## Why Use Variable Speed Control?

More and more, there is a need for variable speed control of pumps.

### Efficient Use of Energy

When water demand varies by more than 30% there are significant power savings to be gained from tailoring the performance of the pump to demand, thus reducing the cost of electricity and the amount of greenhouse gases released into the atmosphere.

### Satisfy Multiple Duty Points

Today, pump systems are expected to meet multiple applications with varying duty points, whether it is different sections of an irrigation system, or to supply water to the house and at the same time parts of the farm. VSD units are the most effective way to meet this multiple duty point requirement.

### Soft Starting Devices

Electricity authorities are tightening the rules and enforcement of Direct-On-Line starting. Australian and New Zealand Standard AS/NZS 61000 is becoming universally adopted as the benchmark on motor in-rush currents. Fundamentally, any motor 4.0kW and above will require a soft starting device. Because VSD units ramp up slowly, they are the most effective way to soft start a motor.

### Protecting Pipes & Fittings

Because VSD units start a pump by ramping up the speed up slowly, they avoid water surges and water hammer when starting. This can protect older, but intact, pipes and fittings from sustaining damage upon start up, avoiding the need for capital intensive upgrades of pipes and fittings.

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WATER PRODUCTS

The Speedman® range of pump sets provides variable speed control for Davey VM pumps from 0.75kW to 30kW. The easy-to-use system features a single dial to set the desired pressure and includes inbuilt pump protection.

## FEATURES & BENEFITS

### Constant Pressure

- Provides constant pressure via variable speed control to match the pump's performance to demand for single VM pumps up to 30kW.

### Easy to Use

- Single adjustment dial allows the operator to easily set the desired set point pressure.
- Selectable manual control for commissioning and fault finding.
- LED indicator displays show pump operation, status and fault conditions. Indicators include Power On, Pump Run, High & Low Pressure Faults, VSD Fault and No Flow testing.

### Pump Protection

- Incorporates high & low pressure shutdown protection with adjustable delay timers.
- High & low pressure settings automatically track set point adjustments to provide consistent protection.
- Automatic sensing of "no flow" condition via pressure boosting to protect the pump.

### Control Settings

- Control box settings can be tailored to suit individual site conditions.

### External Communications

- Remote start input for control via an irrigation controller or external sensor.
- Programmable output relays for external communications, lag pump, or jockey pump operation.

## SPEEDMAN PUMP SET

Speedman® IP65 control box

Pressure gauge

Variable speed IP54 drive controls the motor speed

High efficiency IP55 rated motor suitable for outdoor use

24 litre pressure tank to avoid water surges and water hammer

Quality Davey VM pump

Check valve

Fully assembled on baseplate

\*Davey may change dimensions and configuration without notice