

SPV Control Systems

Efficient control for single pump systems



- Constant pressure with variable speed control
- Practical, robust design
- Simple dial adjustment of set point
- New or existing installations

Applications

- Agriculture & viticulture
- Irrigation
- Domestic water supply
- Industrial water supply

The SPV control system from CAP Industries is a reliable, easy-to-use solution for maintaining constant operating pressure in single pump systems.

Each system features our trademark practical design and is purpose-built to incorporate your choice of Variable Speed Drive (VSD). This, combined with a range of customisable options, makes the SPV control system the ideal solution for enhancing the hydraulic performance of your single pump system.

Enhanced performance

The SPV control system automatically maintains your pump system at optimum performance levels, delivering uninterrupted water supply and smoother overall operation.

Key system benefits include:

- operates with ABB, Danfoss and Sinus Penta VSDs
- simple dial adjustment of set point
- large LEDs for the notification of system status and fault conditions
- auto-off-manual selector switch
- programmable, automatic testing of no-flow condition ensuring suitability for a range of pump applications
- robust, external stainless steel pressure transducer accurate to within 0.3%.

Improved system protection

The SPV system incorporates a range of features to maximise the lifespan of your investment. Standard protection features include:

- pressure protection limits are set as actual values rather than as a percentage of the set point, ensuring system does not exceed the individual performance limits of the pump
- *Set Point Range* warning notifies if the system operates outside the recommended range
- adjustable delay timers ensure pump remains protected, even with a change in set point
- configurable no-flow test routine which allows you to set a set-point boost, time delay between tests and the test time.

Ease of use and installation

The SPV system was designed with ease of use in mind – from installation to everyday operation. It incorporates only standard, field-proven electrical components and switches to ensure:

- maximum reliability and flexibility
- improved operator confidence
- reduced downtime
- trouble-free commissioning and maintenance.



SPV control system – open model

Customisable Options

The SPV control system offers a range of customisable options to meet site-specific requirements. These include:

- up to 16 set points can be selected via remote control relays
- pipe fill mode to allow for controlled filling of pipework on initial start-up
- two-zone pressure control – allows for additional pressure readings in the field to compensate for friction loss and pressure drop
- control of additional pumps including lag pump(s) and/or a jockey pump with independent pressure settings

- available as open model or mounted in customised switchboard (pictured overleaf)
- customisable output relays for external communications including BMS systems.

Technical Data

Size	Open model 220x150x100mm Customised switchboards sized to suit
System power supply options	Single phase 1x240V, 1x480V Three phase 3x380-440V Other voltages available on request
Control power supply	24VDC inbuilt – from VSD
Operating temperature	0 to 40°C, non-condensing Higher temperatures available on request
Frequency	50 or 60 Hz
EMC/EMI filtering	Designed to minimise radiated and conducted emissions
Pressure transducer	10 or 20 bar standard Other ranges available on request
Enclosure protection	Open model – IP54 or IP55 (per relevant VSD) Enclosed switchboard model – IP54+ (greater on request)



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