

Advantages

- Upgrading to variable speed can increase flow rates, in turn increasing profits as more customers are able to fill faster.
- Affordable upgrade, the conversion requires a minimal investment compared to purchasing complete variable speed submersible turbine pumps as you are reusing the majority of existing system components.
- Easy installation, consisting of swapping out the fixed speed motor and the control relay box and adjusting the variable length submersible turbine pump column pipe or riser accordingly.
- Increased flow is automatically delivered as more nozzles go live which keeps the product flowing, the forecourt moving and business coming in.

MagVFC™ Design Highlights

The MagVFC™ features a dual seven segment display to show diagnostic faults. A serial interface is standard to connect to INCON System Sentinel™ software for remote reporting of pump alarms and sharing other pump/ATG intelligence. The MagVFC™ detects and displays these system conditions:

- Dry tank (initiates an immediate pump shut-down).
- Continuous pump run.
- Low incoming voltage.
- Pump motor failure.
- Short circuit detection.
- Controller faults.
- Open circuit detection.

For reduced installation cost, a shielded power cable is not required. Pump protection extends pump life and extended run fault alerts a condition that may render line leak detection ineffective. Remote reporting of pump alarms and sharing of IST and ATG intelligence further reduce station operating costs.

Variable Speed Conversion Kits

The advantages you gain from upgrading from fixed speed to variable speed are undeniable. With Franklin Fueling Systems Variable Speed Conversion Kits you can achieve higher, consistent flow rates, in turn boosting your profits, while eliminating the wear and tear hydraulic hammer can cause. Installation is easy with a variable speed pump motor assembly, MagVFC™ variable frequency controller and four-wire contractor's plug. All in one variable speed kits are compatible with both FE Petro brand systems, as well as other competitive systems. The MagVFC works with the existing system to increase flow as more fueling points go live, delivering the flow you need as you need it. Your customers will know the difference between sites that provide steady flow and faster fueling during peak business hours and those sites that don't.



What is Hydraulic Hammer?

Hydraulic hammer is defined as a sudden pressure spike that is the result of a sudden stoppage in flow in a pressurized piping system. Hydraulic hammer is at its worst in a system that utilizes a high pressure fixed submersible turbine pump. A fixed speed pumping system is incapable of changing the flow rate dependent upon demand and as a result, hydraulic hammer is likely to result when flow is interrupted. Hydraulic hammer may result in system fatigue and intensified wear to system components such as diaphragm valves in multi-product dispensers, leak detectors or hanging hardware. A variable speed submersible turbine pump will operate at lower pressures and significantly minimize the effects of hydraulic hammer.

Ordering Information

Part Number	Description
400693906*	Variable speed conversion kit with AG compatible 2 hp variable speed with MagShell™
400693905	Variable speed conversion kit with AG compatible 2 hp variable speed non-MagShell™
402671906*	Variable speed conversion kit with AG compatible 4 hp variable speed with MagShell™
402671905	Variable speed conversion kit with AG compatible 4 hp variable speed non-MagShell™

*Do not use Magshell™ PMA with Schedule 40 risers. Magshell™ outside diameter is 102.9mm. Schedule 40 riser inside diameter is 102.3mm.



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