

## Peerless Pump

### Constant Pressure Pump Controller System



The Peerless **HC Plus** system uses state-of-the-art technology, with easy to operate controls. From start-up sequencing to shut-down logic, the Peerless system is designed to provide the pump user with complete system control, as well as maximum operating efficiency.

The HC Plus unit is controlled by the most technologically advanced Programmable Logic Controller (PLC) for easy operation and simple configuration of the input and output parameters demanded by an installation. The PLC includes an Operator Interface Device (OID), which provides easy access to application specific information.

At the heart of the **HC Plus** is the PLC, designed specifically for pump operations. The PLC monitors system conditions and maximizes pump speed to precisely meet operating conditions. Utilizing multiple Proportional Integral Derivatives (PID) loops for smooth operation of the pump, the PLC prevents over-shooting or under-shooting operating parameters. Capability of being programmed via an EEPROM allows for easy field replacement.

The OID has quick access buttons to settings and events for ease of maneuvering through different OID screens. A fault log, registers the last 10 faults the system has experienced. Each fault is stamped with a date, time, current pressure, current flow, and which motors were running. Events log registers the last 150 events (motor starts/stops, pressures, flows) for trouble

shooting and diagnostics work. Each event is stamped with a date, time, current pressure, current flow, and which motors were running.

The VFD of the HC Plus can sense the slightest changes in system pressure. Responding to these changes the pump/motor will use only the amount of energy required to meet the new system demand. Operating the pump/motor at its most efficient speed the results will be a reduction in the overall cost of operation and maintenance.

Peerless Pump Company is the only pump manufacturer to offer a variable frequency drive system designed exclusively for pumps. After all, nobody knows pumps better than the engineers who design them.

When you purchase a Peerless Pump HC Plus system, you are assured of total customer satisfaction.





**Peerless Pump has taken the mystery out of utilizing constant pressure pump controllers with these very important features:**

Programmable Logic Controller (PLC) and Operator Interface Device (OID)

Pulse Width Modulated Variable Frequency Drive(s)

Fuses or Circuit Breakers

Pressure Transducer 0-300 PSI Standard, optional spans available

Hand-Off Automatic (HOA) Selector Switch

Speed Potentiometer for Manual Control of Each Drive

NEMA 2 Rated Enclosure - other NEMA ratings available

Self Diagnostic Capabilities

Telemetry/Remote Monitoring Available

Worldwide Product Support

## Standard Features Include:

- ✓ Application specific Programmable Logic Controller with an Operator Interface Device
- ✓ Over current protection...disconnect switch or circuit breaker
- ✓ Pressure transducer
- ✓ HOA switch - runs in automatic mode or hand mode to override
  - Illuminated type for motor running indication
- ✓ NEMA 2 enclosures
  - Other NEMA ratings available

## Optional Features Available:

- ✓ VFD bypass with ATL start can be added and controlled automatically or manual
- ✓ PLC bypass with full motor manual speed control and VFD speed control available as option.
- ✓ Several control panel cooling options for high ambient temperature environments are available.



*An LCD display indicates useful, easy to read, pump application information, including pressure set points and pump settings.*



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