

# WATER PRESSURE BOOSTER SYSTEMS: SERIES WPB

## SUGGESTED SPECIFICATIONS

Furnish and install a packaged water pressure booster system series WPB as manufactured by **Penn Pump & Equipment Company, Inc.**, of Hatfield, PA (215-997-6100). The packaged and tested system shall provide the capacity as scheduled on the drawings.

- A. The pump shall be cast iron bronze fitted, end suction, close coupled centrifugal type with a minimum of 175 psi case working pressure, equipped with a bronze shaft sleeve and a mechanical seal. The pump shall include a bronze modulating thermal safety valve to prevent overheating of the pump casing.
- B. Each pump shall include a two-piece bronze 600psi WOG non-shock ball valve, isolation valves on the inlet and outlet of each pump to provide service of the pump or control valve, and a spring actuated bronze body check valve.
- C. Provide a NEMA 1 system logic controller mounted and wired to contain:
  - Single point power connection
  - Main disconnect switch with cover interlock
  - Individual motor circuit protectors
  - Variable Frequency Drives, each with a pressure transducer
  - HOA selector switches
  - No flow system shut down
  - Electronic pump alternation
  - Lead pump failure protection
  - Low suction shut down with alarm light
  - High System pressure shutdown with alarm light
  - Remote monitoring contacts
- D. The pump package shall include a 44 gallon hydropneumatic tank mounted and piped on the package. The tank shall also include a pressure relief valve, pressure gauge, and tank isolation valves.
- E. The packaged pumping system shall be factory assembled and tested with type "L" copper piping and shall include pressure gauges. It shall be cleaned and painted with a high grade enamel prior to shipment. The service of a factory trained representative shall be made available on the project site for start-up and instructing operating personnel.