Package Pressure System

Precision control and constant pressure, fixed or variable speed

Allied Pumps Package Pressure Systems are engineered to deliver precision control and constant pressure, eliminating cycling, pressure fluctuations and cyclic fatigue. Systems are available in fixed speed or variable speed configurations, with single or multiple pump units mounted on a common frame with interconnecting pipework and manifolds terminating in a single suction and discharge point.

Systems can be built with pressure tanks, valves, gauges and pressure and flow monitoring equipment, and configured for potable water transfer where tank fill is required, activated electrically or hydraulically. Typical transfer applications include high rise buildings and long-distance mining operations.

KEY FEATURES

- Constant, Non-Pulsating System Pressure
- Reduced Cycling and Cyclic Fatigue
- Lower Power Consumption and Energy Savings
- Reduces Water Hammer
- Increases Pump Life
- Single Suction and Discharge Connection Point
- WaterMark Certified

PRODUCT APPLICATIONS

- Town and Subdivision Water Supply
- Multi-Storey Buildings
- Processing Industry and Mechanical Services
- Remote Camp Water Supply
- Golf Course Reticulation



FIXED SPEED

In their simplest form, fixed speed systems use one or more pumps with cascade pressure switch control. The arrangement can be enhanced with a dedicated pump controller and pressure transducer for multiple-pump capability. Units are factory tested with operating parameters pre-set before delivery.



Frame mounted multi-pump system with control cabinet, ready for connection on site.

VARIABLE SPEED

Ultimate performance comes from varying the speed of one or more pump units to produce constant, non-pulsating pressure that responds to changing flow. A dedicated process controller works with a digital frequency converter to vary the lead pump speed and cascade the remaining pumps against the pressure transducer signal.

INTEGRATED FILTRATION AND TREATMENT

Where water quality is not acceptable or requires improvement, filtration and treatment can be built into the system. Sediment filters, UV filters and water softeners are commonly specified for mine camps, remote water supply, hospitals, commercial kitchens and rainwater reuse.