

STANDARD FEATURES

Lockwood Type B boiler feed systems are offered as standard for boilers up to 150 HP and 150 PSIG pump pressures in simplex, duplex, and triplex configurations. Custom systems are also available.

Receivers are constructed of heavy steel plate with necessary reinforced tank connections, including two vents (one internally unrestrictable for added safety). Receivers are furnished with flat flanged heads for added strength, and bolted to support legs for ease of removal. For general applications, receiver capacity is sized to allow approximately 1 gallon of gross capacity per boiler horsepower (smaller receivers may be utilized for high make-up water conditions; larger receivers are recommended for high condensate return conditions). Each system includes a gauge glass with protection rods and shutoff cocks, individual pump suction piping, and a make-up water feeder (internal mechanical type). Pumps are selected for intermittent service.

TYPE B PUMPS

Type B regenerative turbine pumps offer many advantages in applications requiring low-flow and moderate to high pressure when compared to standard centrifugal pumps. Regenerative turbine pumps are designed for low-flow rates relative to discharge pressure making them an efficient and economical choice for boiler feed applications. Because the head capacity curve is steep, the turbine pump offers greater flexibility. When operating at pressures below the design pressure, turbine pumps require less horsepower, centrifugal pumps require more. Turbine pumps are less likely to cavitate due to pressure fluctuations, and offer higher heads than are normally available with centrifugal pumps.

Turbine pumps derive their name from the many buckets machined into the face of the impeller. The pumped liquid is circulated in and out of the impeller buckets many times, each cycle imparting more energy until the liquid is discharged. The resulting flow is smooth and continuous.

Type B turbine pumps are unique in design. An integral part of their design is the Life-Loc® feature that provides a way to externally adjust the clearance between the impeller and the raceway. This feature makes the Type B pump field adjustable without disassembling the pump or disturbing the piping. Because of the turbine pump's low-flow, high-head characteristics, the pump discharge pressure may be adjusted to match critical system requirements without appreciably changing the flow rate. This adjusting feature also allows pump performance to be restored to "like new" after years of service, greatly extending pump life.

Standard Type B turbine pumps are of bronze-fitted construction with mechanical seals for temperatures to 225°F

Life-Loc® is a registered trademark of Burks Pumps.

ACCESSORIES/OPTIONS

- TEFC Motors
- Magnetic Starters/Custom Panels
- H-0-A Switches
- Pilot Lights
- Control Circuit Transformers
- Electrical Alternators
- Level Alarm Switches
- Thermometers
- Pressure Gauges
- Internal Dispersion Tubes
- Steam Preheat Assemblies
- Corrosion Inhibitors (Magnesium Anode)
- Internal Tank Linings
- Galvanized Tanks
- ASME Code Tanks
- Tank Insulation



TYPE B PUMP