Pumps for Central Coolant Systems

Industrial Vertical Turbine Pump
Accepts standard Normal Thrust motors

Quality by people who care
Our Service is keyed to Your needs.

Our machine shop is specially equipped for vertical parts production. Here a VTL finishes castings.

Standard parts are in stock to meet customer needs. A large inventory of special raw stock is maintained to make custom repair parts immediately.

Our years of experience in repairing vertical turbine pumps – all types, all manufacturers – have led to product changes and new designs which we incorporate into our repairs and new pumps. This demands a large inventory of special materials for bearings, seal rings and shafts – all necessary to build our “tough breed” of pumps for severe duty applications.

With pumps, parts and service assistance, we find a way to solve your pumping problems utilizing our machine shop, field service personnel, trucks, plane or vast inventories, you can rely upon Process Systems for Quality by People who Care.

We build and repair vertical turbine pumps for other applications: Cooling Towers, High Pressure Block Washers, Fuel Transfer, Washers, and Phosphaters, Spray Booth Sludge Systems and Waste Treatment.

Process Systems, Inc.
23633 Pinewood • Warren, Michigan 48901
• Phone (586)-757-5711 • FAX (586)-758-6996
www.process-systems-inc.com

Vertical Turbine Pumps & Parts
NEW • MANUFACTURED • REPAIRED
Midwest Service Center:
485 N. State Road 341 South
Mellott, IN 47958
• Phone (765) 295-2206 • Fax (765) 295-2343
Column Pipe
Heavy wall. Threaded or flanged connections.

Shaft Couplings
Secured to prevent uncoupling upon reverse rotation of motor.

Bypass Ports
Oversize. Combined with slinger on shaft to prevent clogging by fines from pumped solution.

Bowl Bearings
Extra long for greater support and longer wear. Heavier wall thickness prevents shaft from wearing into bowl casting.

Bearing Treatment (Optional)
Exclusive space age fluoro-polymer treatment available for extended life.

Enclosing Tube
Schedule 80 or mechanical tubing protects lineshaft and bearings from pumped solution and assures bearing alignment.

Bowl Shaft
Extra large diameter. Chrome plated 700 Brn. (Standard) for extended life.

Connector Bearing Seal
Prevents contaminated coolant from entering lineshaft enclosing tube and bearings.

Discharge Case
Venturi type provides smooth hydraulic flow for greater efficiency.

Lock Collet
Precision taper machined to positively lock impeller shaft.

Impellers
Ultra-high flow. Dynamically balanced. Precision machined and hand finished. Average 4% better efficiency over working range of pump.

Grease Line
Securely attached with stainless steel banding.

Sand Colar
Set screwed to shaft running over seal. Keeps contamination off seal.

Suction Case Bearing Seal
Seals bearing from the pumped solution. Grease lubricated by automatic or manual lubricator.

Suction Case Plug
Large size makes bearing accessible for removal in an arbor press.

Assembly Plug
Allows positive impeller location on assembly.
Process Systems specializes in pumps for your application

A new Tough Breed of Industrial Vertical Turbine Pumps, featuring the exclusive Thrust Head® Discharge Head. Accepting normal thrust C-face motors – U-frame, T-frame or metric – the “Tough Breed” assures you:

1. Higher Efficiency
2. Longer Life
3. Maximum Parts Standardization
4. Lower Parts Prices
5. Easier Repairs
6. Competitive Prices

**Coupling Guards**
OSHA approved.

**Thrust Bearing Assembly**
Time Tested – over 8000 units in operation.

**Uphrust Bearing and Cartridge**
Protects against momentary upthrust.

**Oil Reservoir**
Manual or solenoid operated.
1 gallon metal standard. Optional
2 gallon see thru plastic.

**Gun-fil® Lubricator**
For regreasing suction case bearing on oil lubricated pumps.

**Automatic Grease Lube**
Optional lubrication feature.

**Flexible Coupling**
Falk-Steelflex T-10 series. All metal parts.

**Factory Adjusted Impellers**
Prior to shipment.

**THRUST HEAD® Discharge Head**

**Grease Seals**
Provided on grease lubricated pumps and/or vacuum service pumps.

**Lineshaft Bearings**
Oversize. Grooved for oil or grease. Conservative spacing for longer life.

**Lineshaft**
Oversize for motor H.P. used. Reduces shaft and bearing wear.