VERTICAL TURBINE PUMPS FOR THE MINING INDUSTRY

FLOWAY PUMPS

A TRADING NAME OF **WEIR FLOWAY, INC.**

Floway Pumps

for the Mining and Minerals Industry

Floway, Manufacturing Vertical Pumps Since 1934

For more than 65 years, Floway Pumps has been dedicated to manufacturing only vertical turbine type pumps. This dedication and focus has led Floway to being an industry leader in vertical turbine pump technology. Floway's products are recognized throughout the world for their superior quality, top hydraulic performance and long service life.

Floway's product line for the mining and minerals industry is built around the versatility of the vertical pump design. Depending on exact job specifications, Floway engineers select the best combination of pump components and materials of construction to meet virtually any fluid-moving requirement.

Pump Features

- Floway vertical turbine pumps consist of multi-staging in the medium specific speed range from 1,300 Ns through 5,000 Ns.
- Low NPSH first stage construction is available which allows for a reduction in can length for double casing pumps and minimum submergence for wet pit single casing pumps at high elevation mine sites.
- Pressure and flow variations are achieved by changing the number of stages, impeller type, or impeller diameter
- The pump bowl assembly is characterized as low energy per stage resulting in a broad flow range with excellent hydraulic stability
- Thrust balanced impellers are available for pump axial thrust reduction and assist in obtaining the desire thrust bearing rating/ life.

6-300HP Barge mounted reclaim water pumps

3-900HP units for Raffinate service pumps - Copper mine

Typical Services

Copper

SX-EW	*Concentrator*
Raffinate	Thickener Overflow
PLS	Reclaim Water
Heap Leach	Mine Seepage
	Well Pumps-Process
	Water Supply

Gold

Barren Solution Pumps
Hydraulic Mining-High Preassure
Auxilliary Water Service

Coal Mine

Mine De-Watering

Chemical Extraction

Well Pumps-Pregnant Solution
Wet Pit Pumps-Process Water

Materials

Austentic-304L (J92500), 316L (J92800)
Super Austentic-904L(N08925), Al6XN (N08367),
317LM (S31725)
Duplex SS-2205 (S39209), 255 (S39255), CD4MCu (J93370)

- Compatible wrought alloys are available for above cast materials.
- Corrosion resistant stainless steel and high alloy castings are available, procured to ASTM A743 and A744 specifications.

Quality Assurance

ISO 9001 Certified

Welding and Fabrication

Floway's in-house fabrication is staffed with welders certified to ASME Code Section IX. All procedure qualifications are completed prior to production welding. Weldment corrosion control procedures to enhance corrosion resistance is available.

Design Capabilities and Control

Floway utilizes in-house licensed professional engineers, hydraulic design engineers, the latest 3D design modeling technology and a complete in-house pattern shop to ensure maximum design control.

Submersible

Wet Pit
F, FR & A

Type of Pump	Submersible	F,FR & A
Pump Configuration	Vertical Well Type or Horizontal Can Type Booster	Vertical Close Coupled Single or Multistage Turbine. Wet Pit
Type	Setting to 1,500 Ft.	Vertically Suspended Single Casing Wet Pit Type
Capacity	To 8,000 USGPM (1,8000M3/HR)	To 35,000 USGPM (8,0003/HR)
Preasure	To 750 PSI (50 Bars)	To 1,500 PSI (100 Bars)
Liquid Handled	Clear Water	Water, Chemical Solutions (Acidic or Alkaline)
Temp Range	Standard to 140° F (60° C)	Up to 175°F (80° C)
HP Range	Through 600HP (450 KW)	To 3,000 HP (2,250 KW)
Drivers	Submersible Motor 3 50-60 Hz	Engine/gear drives, Electiric Motors, Variable Speed Drives
Materials of Construction	Gray Iron, Ductile Iron, Bronzes, 300 series stainless steel	Most Any Machinable and Weldable Alloy

Special applications are available to fit customer specifications.

MAIN OFFICE

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