SERIES 4810 BOWL (ELS) ASSEMBLY **ENCLOSED LINESHAFT**

VERTICAL TURBINE

Bowls: 10" to 52" Diameter Flows: To 28,000 GPM Heads: To 980 Feet Temp: To 250°F

Services:

Cooling Water Raw Water Intake Sea Water **Industrial Process Condenser Circulating Irrigation & Drainage Municipal Water Supply**

BOWL ASSEMBLY

- Supplied standard in ASTM A48 class 30 cast iron with vitreous enamel interior lining
- Heavy wall thickness for corrosion allowance and high pressure applications
- Includes investment cast, 304 stainless steel, single suction impellers
- Impellers can be offered in enclosed or semi-open design for aggressive applications
- Optional bowl and impeller wear rings upon request Francis impeller design allows for broad band, high
- efficiency performance Impellers are machined and dynamically balanced prior to assembly
- 416 stainless steel bowl steel shaft is stronger than standard carbon steel and has superior corrosion resistance
- Keyed impeller construction for high pressure applications upon request
- Bronze bowl bearings with a wide variety of other materials upon request
- All stages feature o-ring construction making sure no leakage is present
- Dual bearing discharge supplied standard in ASTN

LINESHAFT COUPLINGS

Smaller HP models feature threaded lineshaft couplings while larger sizes have keyed lineshaft couplings standard Alternate metallurgy options available upon request

DISCHARGE CASE

- ASTM A536 ductile iron construction Connections for column oil lubrication & water lubrication
- Double oil lip seal design to add superior sealing for discharge case
- Wide variety of enclosing tube sizes available based on column selection

BOWL SHAFT

Oversized, 416 stainless steel shaft is stronger than standard carbon steel and has superior corrosion resistance All impellers through 19 inch bowls feature taper lock impellers with optional keyed impellers available on every size

INTERMEDIATE STAGES

- Supplied standard in ASTM A48 class 30 cast iron with vitreous enamel interior lining Bowl o-ring standard between each stage Bronze bowl bearings standard within each
- stage for superior shaft support Optional grease lubricated isolated bearings
- available upon request Wide variety of optional metallurgy available
- upon request

IMPELLER DESIGN

- Includes investment cast, 316 stainless steel, single suction impellers
- Largest hydraulic selection in both enclosed and semi-open impeller designs
- Semi-open designs designed for aggressive, dirty water applications

OPTIONAL BOWL WEAR RINGS

- Heavy wall, ASTM B584 Alloy 836 lower bowl wear rings pinned in location so the wear ring cannot rotate within the bowl assembly
- Alternate metallurgy options available for all wear rings upon request

- A536 ductile iron case for additional shaft support at the top of the bowl assembly
- Alternate metallurgy options available upon request

STRAINER

- Supplied in galvanized steel, 304 or 316 stainless steel and all bronze construction
- Available in basket or conical design
- Protects the bowl assembly from large solids that may be present in the pumped fluid
- Optional vortex suppressor available upon request
- Alternate metallurgy options available upon request



SERIES 4810 VT ELS VERTICAL TURBINE PRODUCT LINE ©2021 AMERIFLO

SUCTION BEARING

- Bronze sleeve bearing can be supplied in optional metallurgy upon request
- Marine grease lubricated with set-up tool drilling to aid in bowl assembly