

SERIES 4810

BOWL

ASSEMBLY

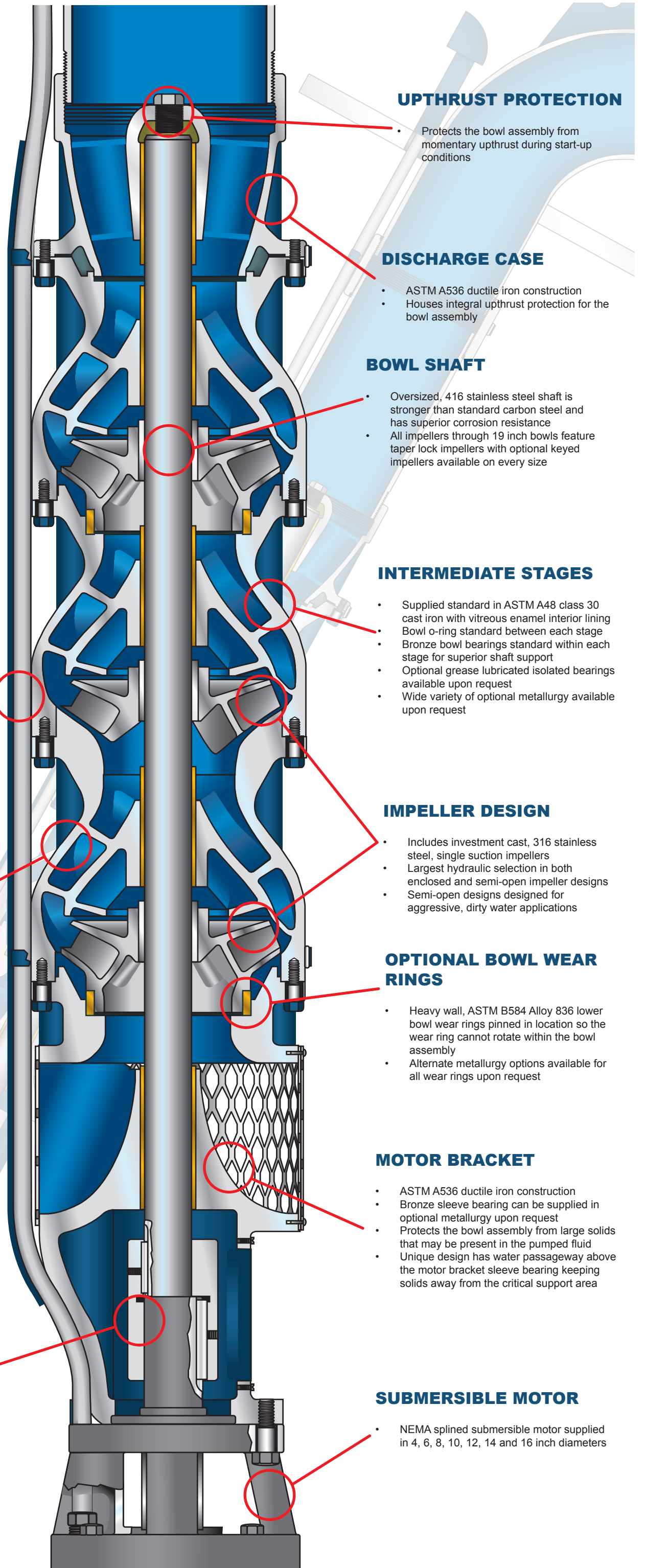
SUBMERSIBLE

VERTICAL TURBINE

Bowls: 10" to 20" 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



UPTHRUST PROTECTION

- Protects the bowl assembly from momentary upthrust during start-up conditions

DISCHARGE CASE

- ASTM A536 ductile iron construction
- Houses integral upthrust protection for the bowl assembly

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

MOTOR BRACKET

- ASTM A536 ductile iron construction
- Bronze sleeve bearing can be supplied in optional metallurgy upon request
- Protects the bowl assembly from large solids that may be present in the pumped fluid
- Unique design has water passageway above the motor bracket sleeve bearing keeping solids away from the critical support area

SUBMERSIBLE MOTOR

- NEMA splined submersible motor supplied in 4, 6, 8, 10, 12, 14 and 16 inch diameters

CABLE GUARD

- 304 stainless steel construction
- Protects the submersible motor cable during installation between the bowl assembly and the well casing

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
- Alternate metallurgy options available upon request

MOTOR COUPLING

- 416 Stainless steel construction connecting the splined motor shaft to the keyed pump shaft