

Applications

Municipal Water Supply

Industrial

Agricultural

Waste Water

Booster System

Hydrocarbon Transfer

Mine Dewatering

Offshore Platform

Building Trades - (HVAC)

Cooling Towers

Turf Irrigation

Pulp and Paper Mill

Water Amusement Parks

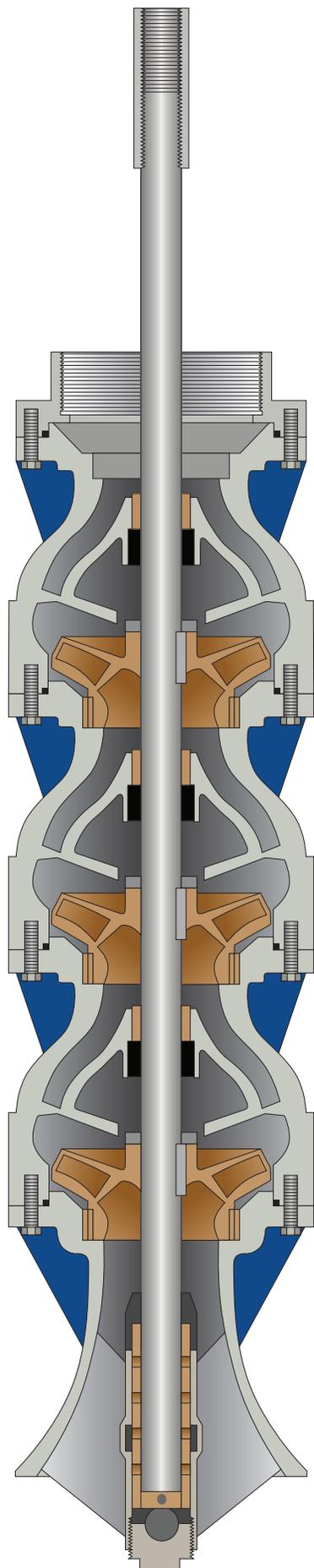
Snow Making

Fish Hatcheries

Barge Unloading



Applications



CONSTRUCTION MATERIALS:

Stainless Steel
Ni-Resist
Bronze
Nickel Aluminum Bronze
Zincless Bronze
Ductile Iron
Hastelloy C
CD4 MCu
Carbon Steel
Special Coatings
Aluminum
Teflon
Special Hardened Materials
17-4 PH
Bronze
K-Monel
Marine Bronze

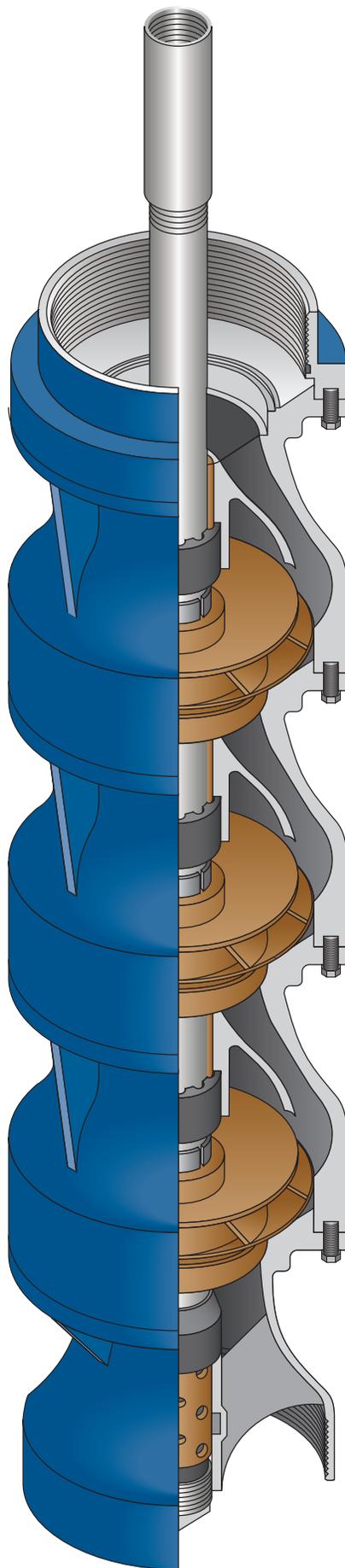
DESIGN OPTIONS:

O-Rings
Keyed Impellers
Bowl & Impeller Wear Rings
Oversized Bow Shaft
Belled Suction
Flanged or Threaded Columns
Thicker Bowl Casing Wall
Other Materials as Required

Product Tube



STANDARD CONSTRUCTION



Intermediate Bowl - Cast Iron

Baked-On Porcelain Lining

Enhances efficiency

Connections

6" and 8" models are threaded bowls and all other models are bolted bowls

Rib Reinforced Flange

Adds strength and rigidity to bowl to withstand installation and transportation stresses

Registered Fit

Maintains essential axial alignment

Impeller - Bronze

Enclosed Design

Produces optimum pressure versus capacity and allows for optional wear ring installation

Balanced

Reduces vibration and wear

Impeller Vane Design

Designed for the most efficient operation

Bearings

Combination C84400 Bronze and Buna-N A40 Elastomer in Intermediate Bowls

Provides optimum bearing life for various applications

Extra Long, Greased Packed, Bronze Suction Bearing

Ensures support and extended product life

Bowl Shaft - 416 Stainless Steel

Straightness

Turned, ground and polished

Meets or exceeds AWWA tolerance

Discharge Column Adapter Ring - Ductile Iron

Interchangeable Sizes Available

Easily changed from various pipe sizes

Impeller Lock Collet - Carbon Steel

Split Tapered Design

Proven design, positive locking

Suction Case - Cast Iron

Tapered Design

Provides a smooth transition for fluids entering the pump

Sand Collar - Bronze

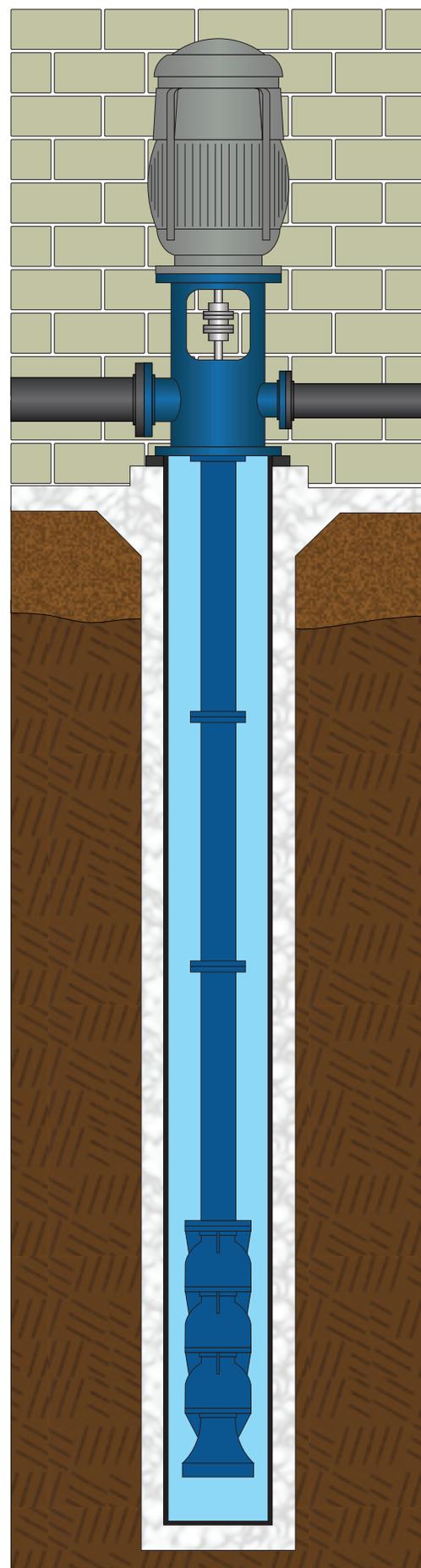
Located above the Suction Bowl Bearing

Prevents abrasives from contaminating the suction bearing lubricant

Variety of Strainers Available

Located below the Suction Bowl

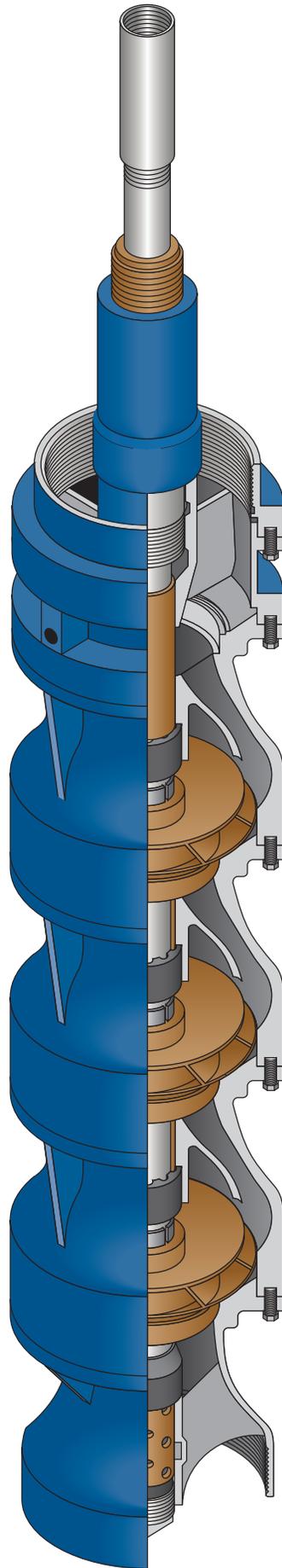
Prevents the entrance of debris



Oil Lubrication



STANDARD CONSTRUCTION



Intermediate Bowl - Cast Iron

Baked-On Porcelain Lining

Enhances efficiency

Connections

6" and 8" models are threaded bowls and all other models are bolted bowls

Rib Reinforced Flange

Adds strength and rigidity to bowl to withstand installation and transportation stresses

Registered Fit

Maintains essential axial alignment

Impeller - Bronze

Enclosed Design

Produces optimum pressure versus capacity and allows for optional wear ring installation

Balanced

Reduces vibration and wear

Impeller Vane Design

Designed for the most efficient operation

Bearings

Combination C84400 Bronze and Buna-N A40 Elastomer in Intermediate Bowls

Provides optimum bearing life for various applications

Extra Long, Greased Packed, Bronze Suction Bearing

Ensures support and extended product life

Long Bronze Throttle Bearing

Provides shaft stability and inhibits the pumped fluid from entering the enclosing tube

Bowl Shaft - 416 Stainless Steel

Straightness

Turned, ground and polished, meets or exceeds AWWA tolerance

Discharge Case - Cast Iron

Pressure Relief Ports

Relieves the fluid bypassing the throttle bearing

Ribbed Reinforcements (Interior and Exterior)

Supports the enclosing tube for deep set applications

Tube Adapter - Ductile Iron

Left or Right Handed Threading

Adaptable to any type tubing

Discharge Column Adapter Ring - Ductile Iron

Interchangeable Sizes Available

Easily changed from various pipe sizes

Impeller Lock Collet - Carbon Steel

Split Tapered Design

Proven design, positive locking

Suction Case - Cast Iron

Tapered Design

Provides a smooth transition for fluids entering the pump

Sand Collar - Bronze

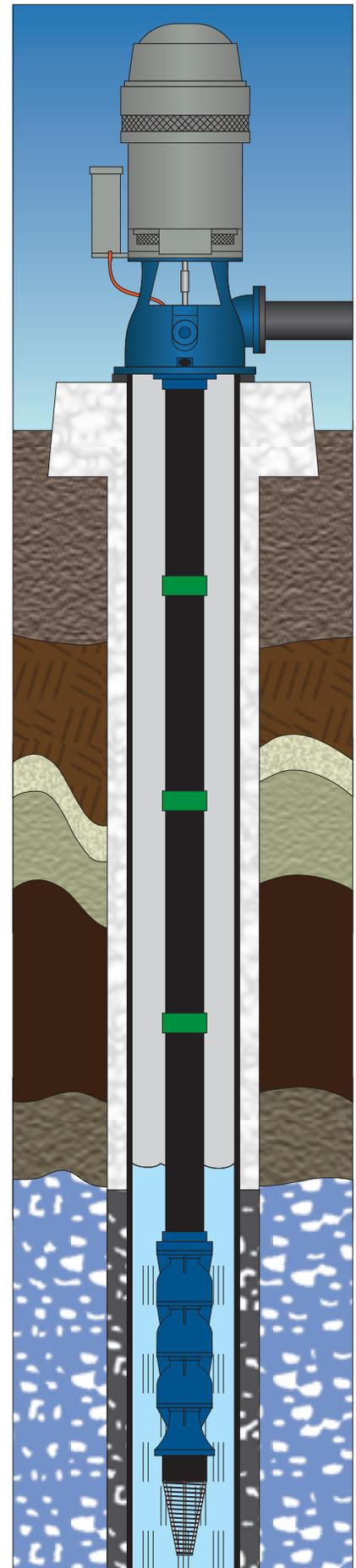
Located above the Suction Bowl Bearing

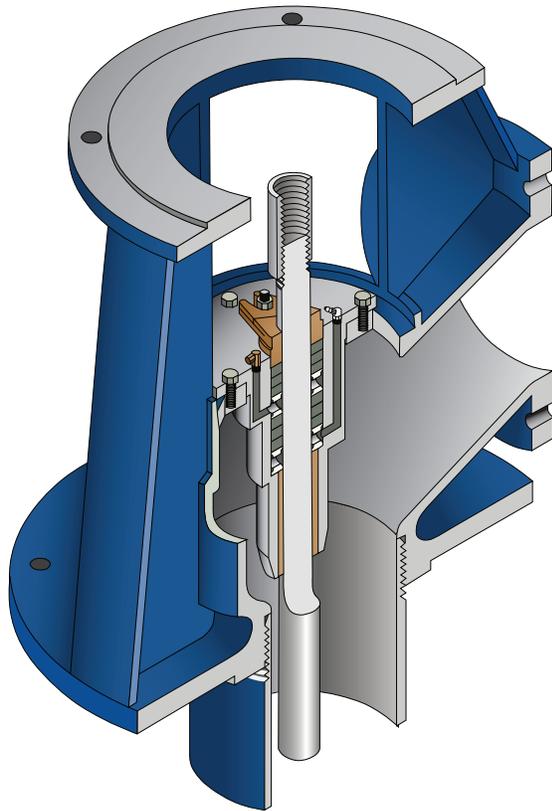
Prevents abrasives from contaminating the suction bearing lubricant

Variety of Strainers Available

Located below the Suction Bowl

Prevents the entrance of debris





PRODUCT LUBRICATED

Head Casting

ANSI Class 125 Discharge Flange Drilling

Common connection suitable for most applications

Ribbed Design

Suitable for Short Coupled or Deep Well applications

Packing Box Area

Adequate for two piece headshaft

PRODUCT LUBRICATED

Stuffing Box

Grease Port

Allows grease to be added for continued lubrication

Bronze, Throttle Bearing

Maintains shaft alignment and reduces pressure on packing

Graphite Impregnated Braided Packing

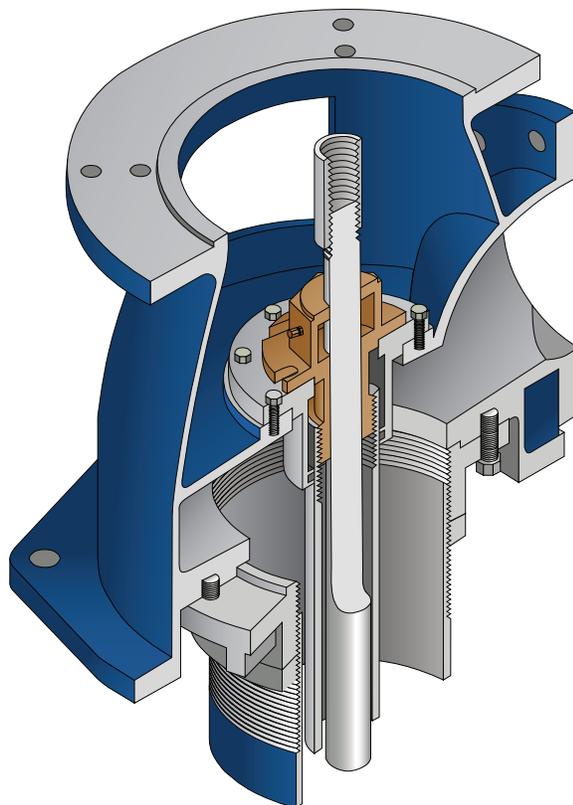
Conforms to shaft with minimum friction, suitable for a wide variety of fluids

Split Packing Gland

Allows for packing replacement without removal of driver shaft

Lantern Rings

Allows for uniform distribution of shaft lubrication. Also acts as a pressure bypass



OIL LUBRICATED

Oil Lubricated

Column Adjusting Nipple

Deep Set Column Projection Adjustment

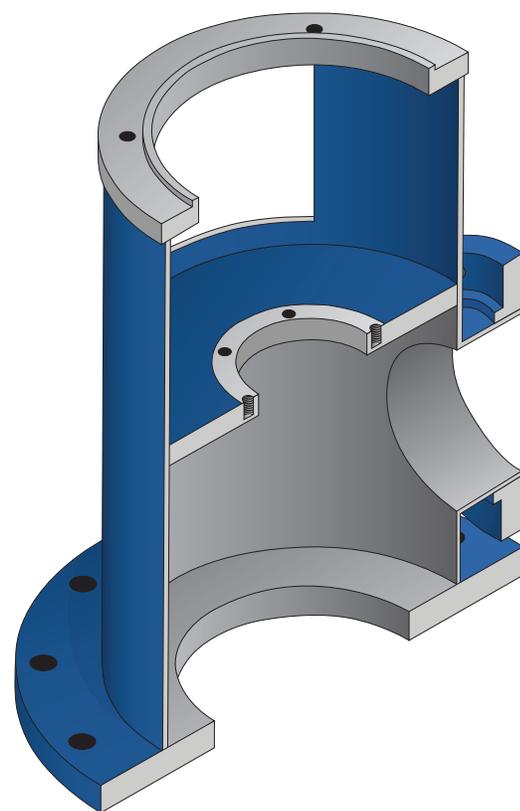
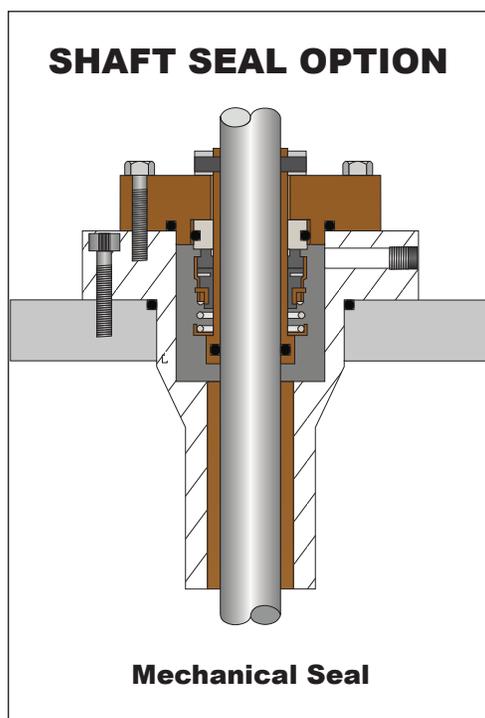
Extra long threaded portion allows for variances in inner column projections at the surface.

Tension Assembly

Adjustable Bronze Tension Nut

Applies tension to the tubing to maintain axial alignment and provide shaft support

CUSTOM FABRICATED DISCHARGE HEADS BUILT TO YOUR SPECIFICATIONS



FABRICATED DISCHARGE

FABRICATION OPTIONS

Suction Barrels

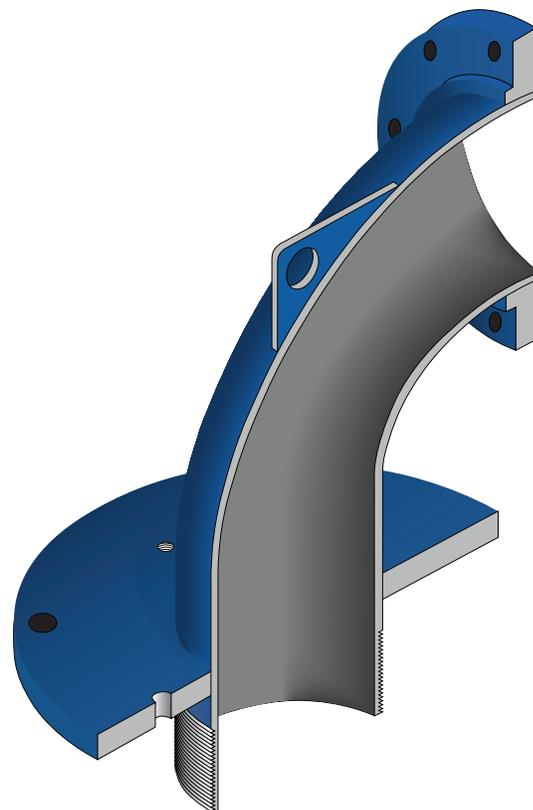
Below Surface Discharge

Aluminum

Stainless Steel

Coated as Required

Other Materials as Required



SUBMERSIBLE DISCHARGE