

# Submersible Turbine Pumps



**KLASSEN**



# Technical Specifications

## Performance Data

Discharge Size:	4" through 12"
Capacity:	150 to 5,500+ GPM @ BPE
HP:	5 to 250+ HP
Total Head:	Up to 1,200 Feet

## Applications

- ✓ Commercial
- ✓ Industrial
- ✓ Irrigation
- ✓ Mining
- ✓ Municipal

## Materials of Construction

Item	Standard Construction	ASTM Reference	Characteristics
Shaft	Stainless	A582 416	Corrosion Resistant
Motor-Shaft Coupling	Stainless	A582 416	Keyed to Pump Splined to Motor
Suction	Cast Iron	A48 Class 40	6", 8" or 10"
Suction Bearing	Bronze	B505 C844	Improves Shaft Stability
Sand Cap	Stainless	A582 416	Protects Bearings from Sand
Impeller	Bronze 316 Stainless (optional)	B584 C836 A744 CF8M	High Efficiency Design
Impeller Collet	Stainless	A582 416	Secures locking of impeller
Bowl	Cast Iron	A48 Class 40	Flanged
Bowl Bearing	Combined Bronze / Rubber	B505 C844 / NA	Heavy duty with many optional materials available
Upthrust Ring	Stainless	A582 416	Protects Pump from Axial thrust
Column Adapter	Cast Iron	A48 Class 40	4" to 12"
Column Adapter Bearing	Bronze	B505 C844	Improves Shaft Stability
Suction Screen	Stainless	A582 304	Protects Against Solids
Bolts	Stainless	F593 304	Easy to Disassemble
Cable Guard	Stainless	A240 304	Corrosion resistant

# Industrial, Agricultural & Municipal Application

## Discharge Head

Fabricated & engineered for deep pump setting and to connect to system piping

## Column Pipe

ASTM A53B material with NPT thread and coupling

## Upthrust ring

Protects the pump from momentary upthrust at start up and is set at the factory.

## Sub Column Adapter

Class 40 cast iron, threaded NPT connection with an oversized bronze bearing that starts at the bowl for maximum sand protection.

## Bolting

Stainless steel for corrosion resistance.

## Intermediate Bowl

Class 40 cast iron for increased resistance towards corrosive and sandy water.

## Impeller

Enclosed design to optimize efficiency. Open design for best resistance against sandy water. All impellers are machined, balanced and locked onto shaft with taperlock collets.

## Shaft

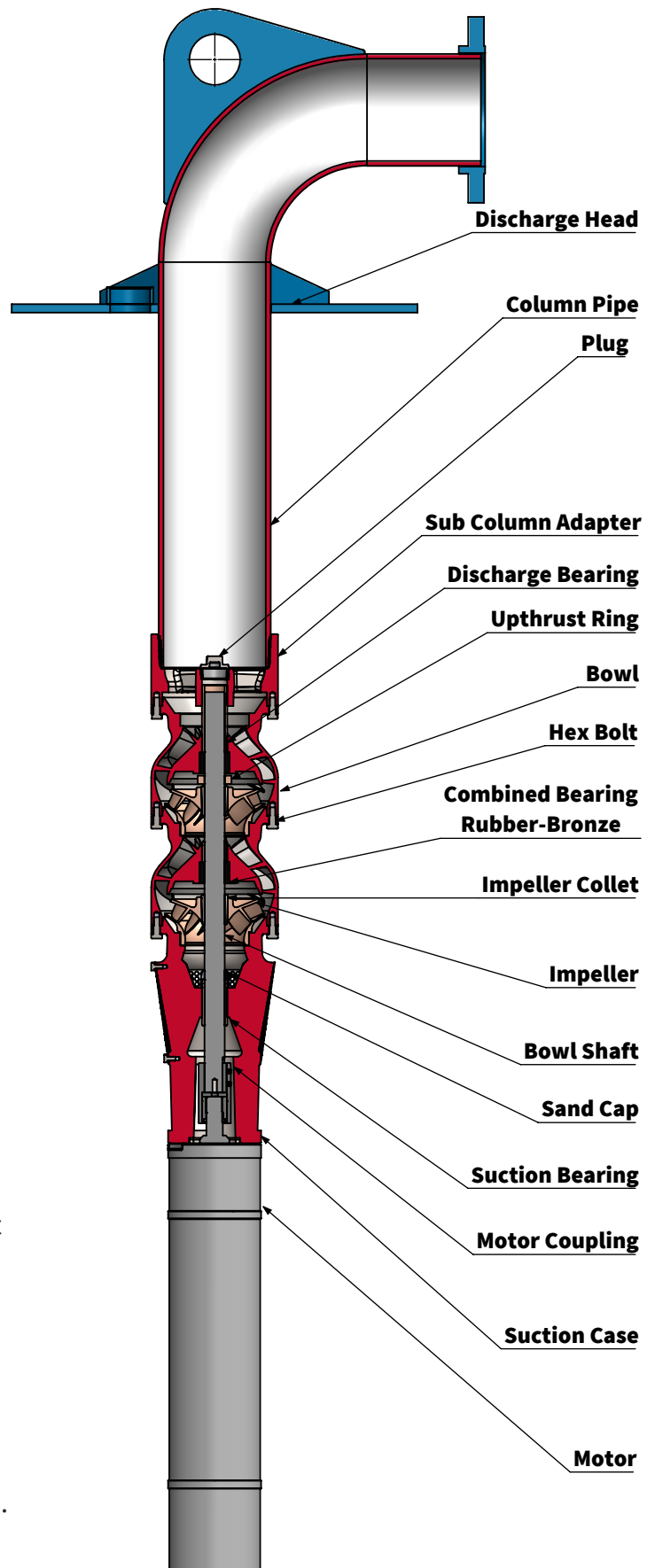
Minimum 75,000 psi tensile strength. Polished, machined and balanced for the best function.

## Suction/Adapter pump to motor

Class 40 cast iron flanged to ensure precision motor alignment.

## Suction Screen

Stainless steel, protects the pump from solids.





# ABOUT KLASSEN

We innovate, design, and manufacture **efficient solutions** in pumping equipment.

At Klassen, we are a family business driven by a commitment to service: since our beginning as a repair shop in 1978, we have been creating innovative solutions to water needs in agriculture and mining, as well as for municipal and residential drinking water supply. Committed to the mission of making the lives of our clients easier and to drive environmental sustainability through the efficient use of electric energy, we are consistently developing more durable and cost-efficient pumping equipment. Thanks to our strategy of integral innovation, we analyze deficiencies and implement changes from the design and engineering phase, the foundry of materials, the machining of the individual components to the final assembly. The knowledge that we have acquired during our 40 years of experience in the industry and our manufacturing capacity allow us to optimize energetic efficiency for specialized or atypic volumes and conditions, always complying with our standards of quality and services.



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