

Barnes Sump Pumps

Crane Pumps & Systems



PUMPS & SYSTEMS

Sump Pump History

Everyone. Everywhere. On Time Every Time.

1946 – The Piqua Machine and Manufacturing Company Founded

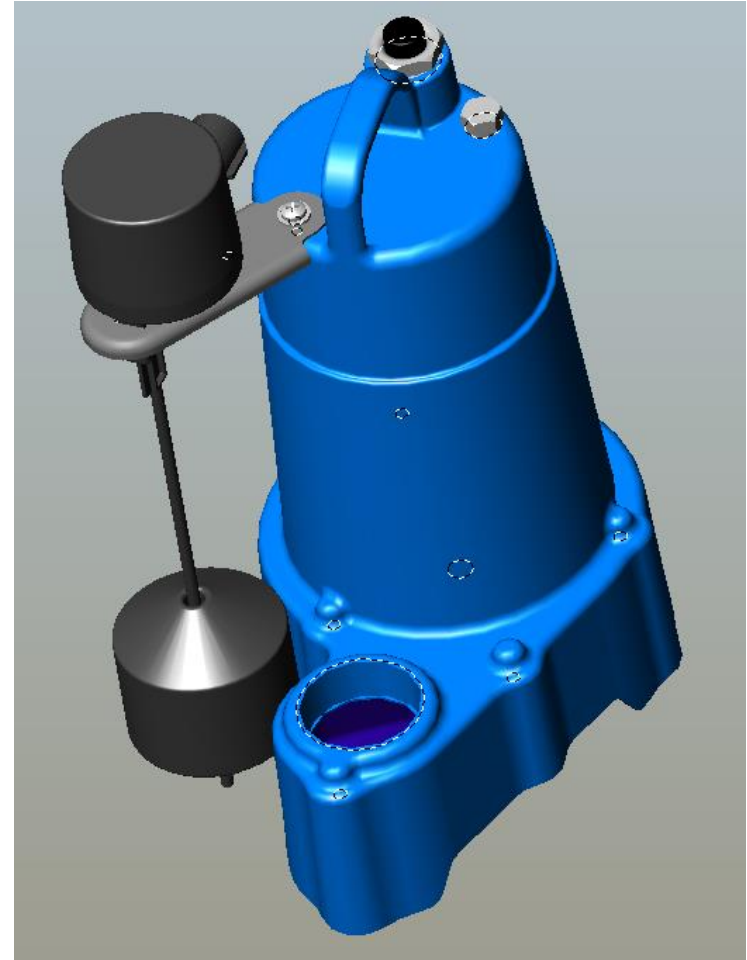
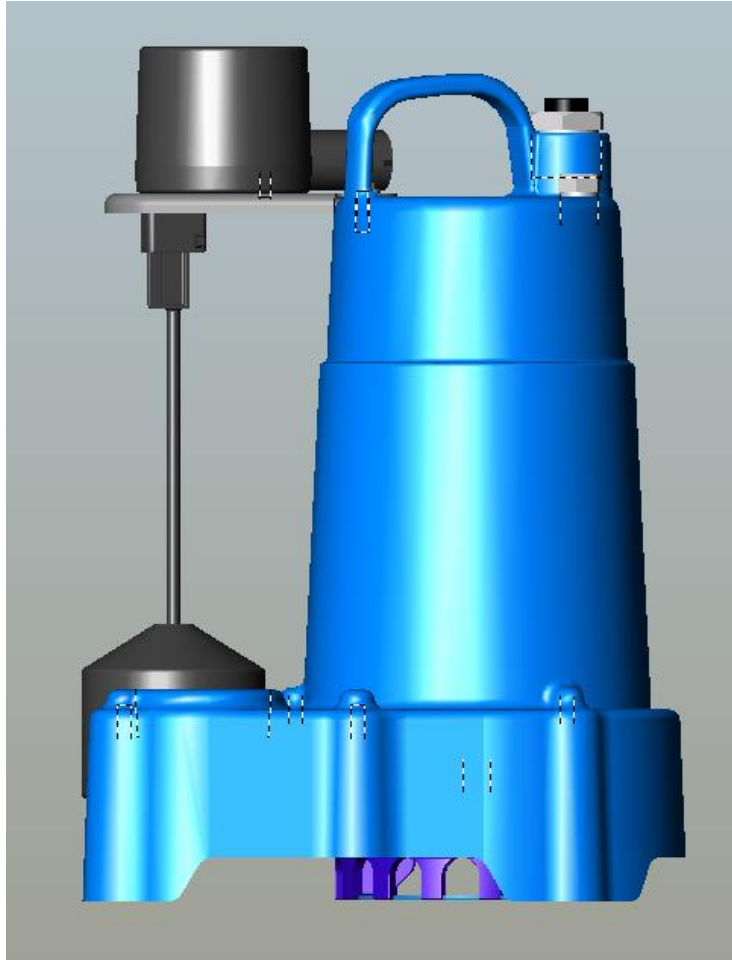
- 56 Frame Fractional HP Motors
- 1948 Introduced the original 1/3HP 1-1/4" discharge submersible pump
- Trademarked "Enpo" for Engineered Power
- Merged with Barnes and eventually adopted the Barnes name



SP Series Sump Pumps

Everyone. Everywhere. On Time Every Time.

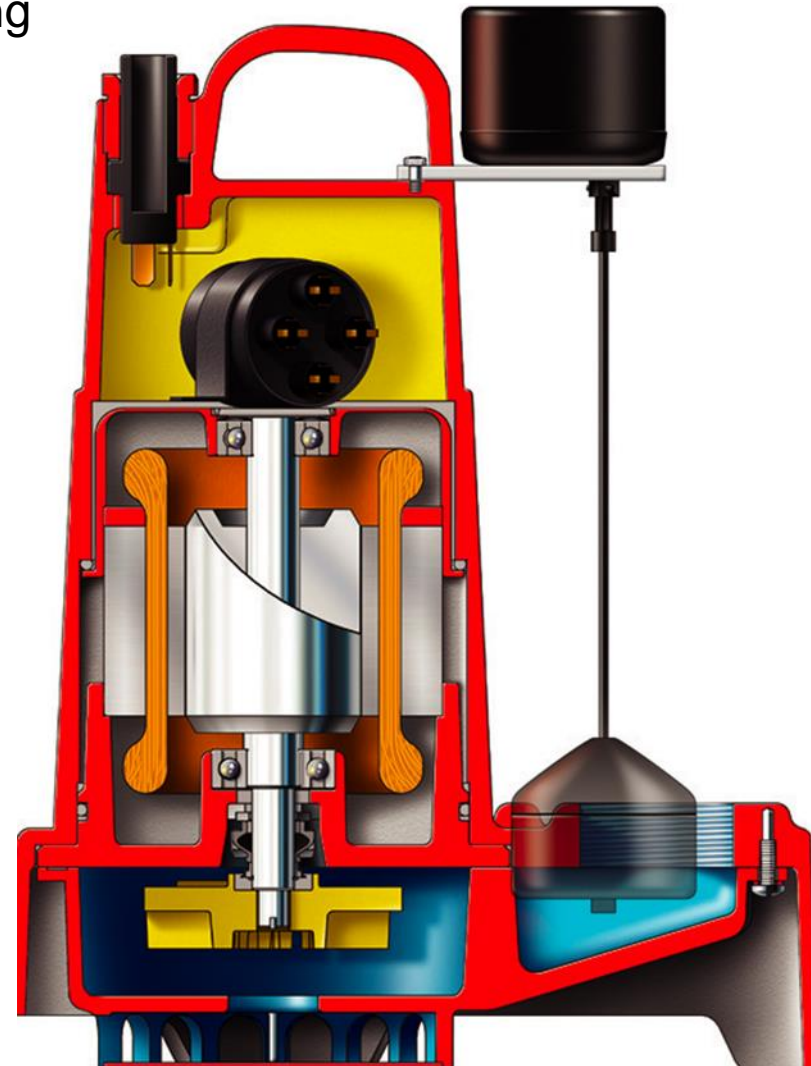
Introduced in 2001



What Makes a Pump “Professional Grade”

Everyone. Everywhere. On Time Every Time.

- **Castings:** One Piece Motor/ Volute Casting
 - No leak points through gaskets
- **Motor Type:** Permanent Split Capacitor
 - Higher Start Torque
 - Lower amp draw
- **Temperature Control:** Oil Cooled
 - Greater thermal conductivity
- **Bearings:** Upper and Lower Ball Bearings
 - Quieter Run
 - No shaft deflection= longer life
- **Seal:** Type 21 Mechanical Seal
 - No lip seals or pressed o-rings
- **Impeller:** Cast Iron Vortex- standard, not upgrade
 - Wear resistant
 - Clog resistant



PSC Motor vs Shaded Pole Motor

Everyone. Everywhere. On Time Every Time.

- SHADED POLE MOTOR -
 - Single set of coils
 - Inexpensive
 - Low Powered
 - Low Starting Torque
 - Poor Efficiency

- PERMANENT SPLIT CAPACITOR MOTOR -
 - Two uniform windings
 - Improved Starting Torque
 - Greater Efficiencies
 - Reverse Rotation Available

Ball Bearing vs Sleeve Bearing

Everyone. Everywhere. On Time Every Time.

- SLEEVE BEARING –
- Shorter Life
- Lower Heat Endurance
- More Lubricant Evaporation
- Less Expensive

- BALL BEARING –
- Longer Life
- Higher Heat Endurance
- Less Lubricant Evaporation
- More Expensive

Cast Iron vs Plastic Impellers

Everyone. Everywhere. On Time Every Time.

- Plastic Impellers are more likely to strip off the Motor Shaft
- Plastic Impellers vulnerable to damage from Rocks or Debris

Cast Iron vs Plastic Housings

Everyone. Everywhere. On Time Every Time.

- If Plastic Housing gets hot (it Expands) Creating Excessive Tolerance's that can cause the motors bearings to burn out.
- Cast Iron is better at dissipating heat
- Cast Iron can tolerate high heat without distortion

What would you choose?

Everyone. Everywhere. On Time Every Time.



GIVE THE
HOMEOWNER
A CHANCE TO
MAKE THEIR
OWN DECISION

I Need a Pump:

- Needs to be cheap
- Needs to be in stock
- Needed it yesterday
- ... and did I mention it needs to be cheap



Additional SP Benefits “Professional Grade

Everyone. Everywhere. On Time Every Time.

- **FLA 5.8amps**
 - Two pumps one circuit
- **GFCI compatible**
- **Continuous Duty Rated- Standard**
- **1/2” solids handling**
 - Septic system ready

The SP is “The Finest Replacement Sump Pump in the Market, Bar None”

BUT – Barnes has not had a lower-end offering for new construction or for those plumbers and contractors who buy ONLY on price



SU SHUR-Switch™ Sump Pump



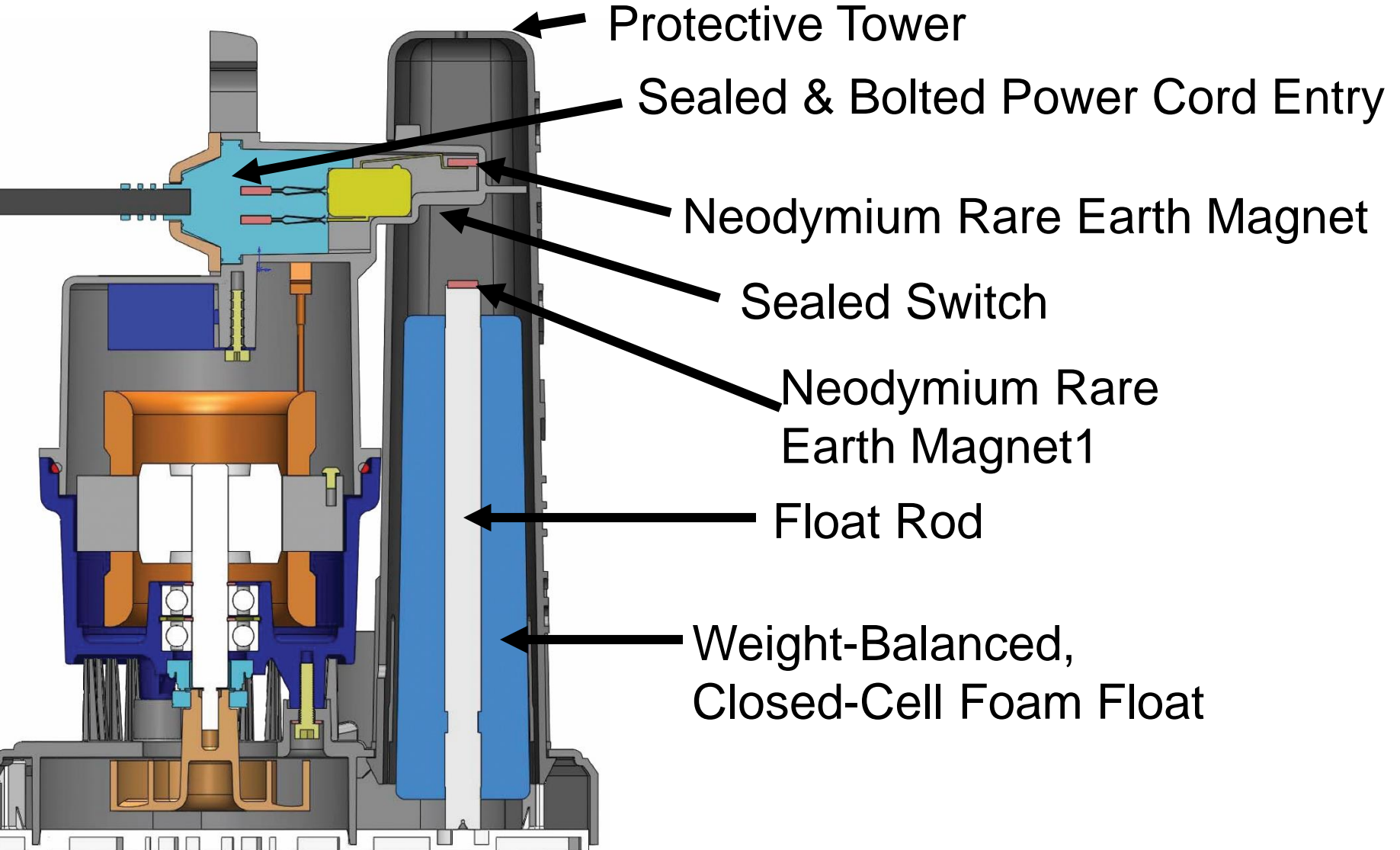
**Patent Pending*

CRANE®

PUMPS & SYSTEMS

The SHUR-Switch™ Switch

Everyone. Everywhere. On Time Every Time.

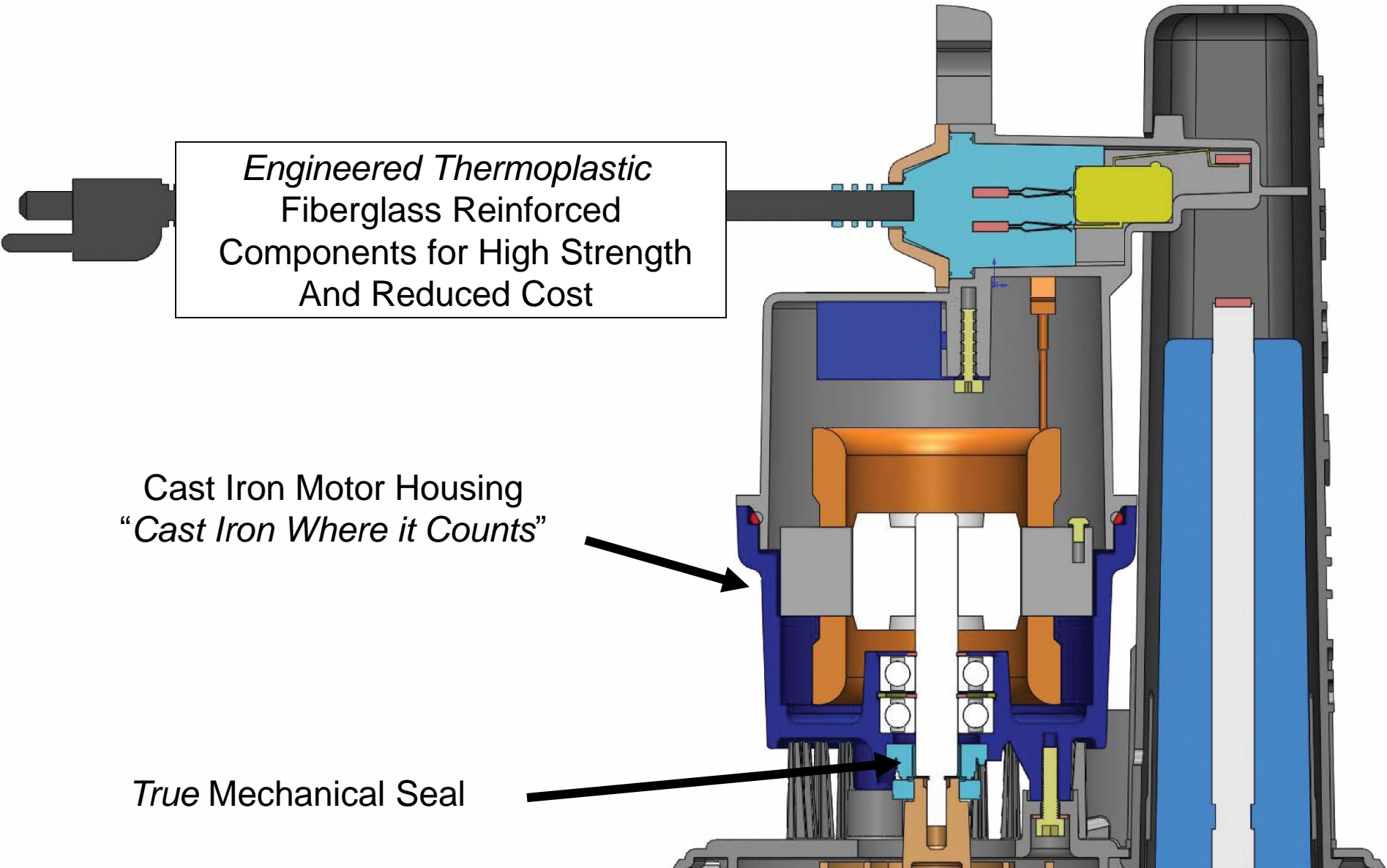


CRANE

PUMPS & SYSTEMS

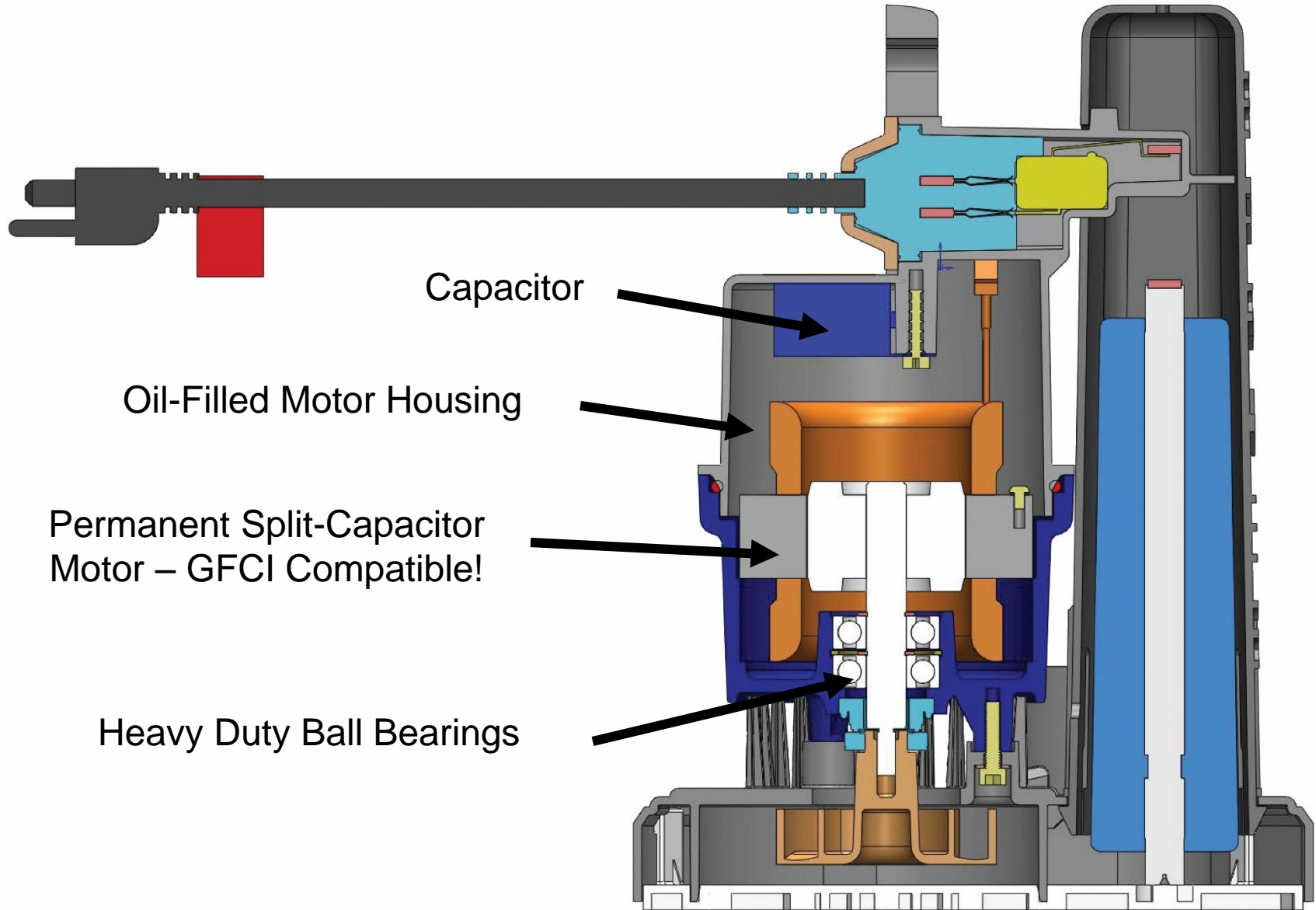
Cast Iron & Thermoplastic Construction

Everyone. Everywhere. On Time Every Time.



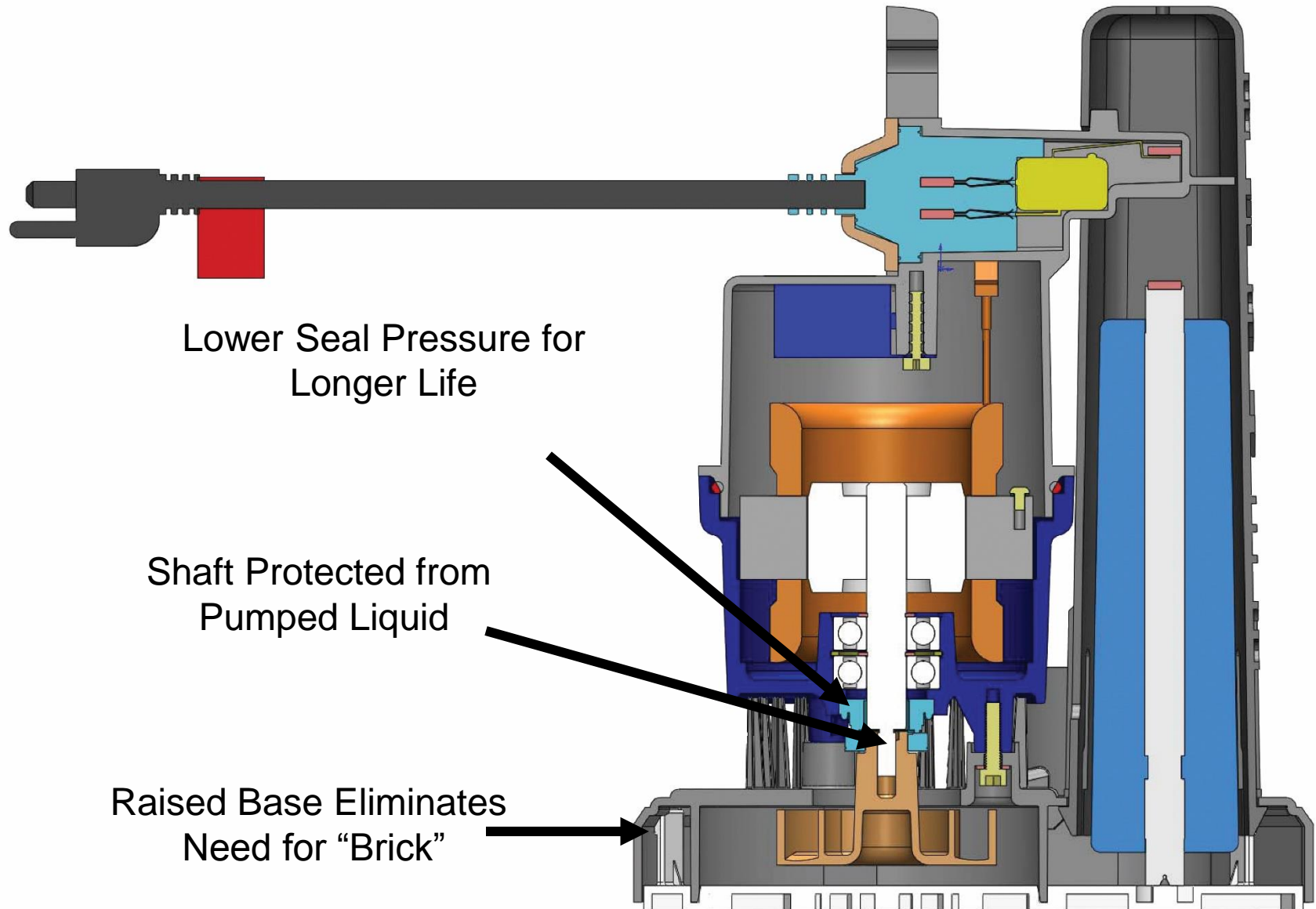
Industrial Grade Motor & Bearings

Everyone. Everywhere. On Time Every Time.



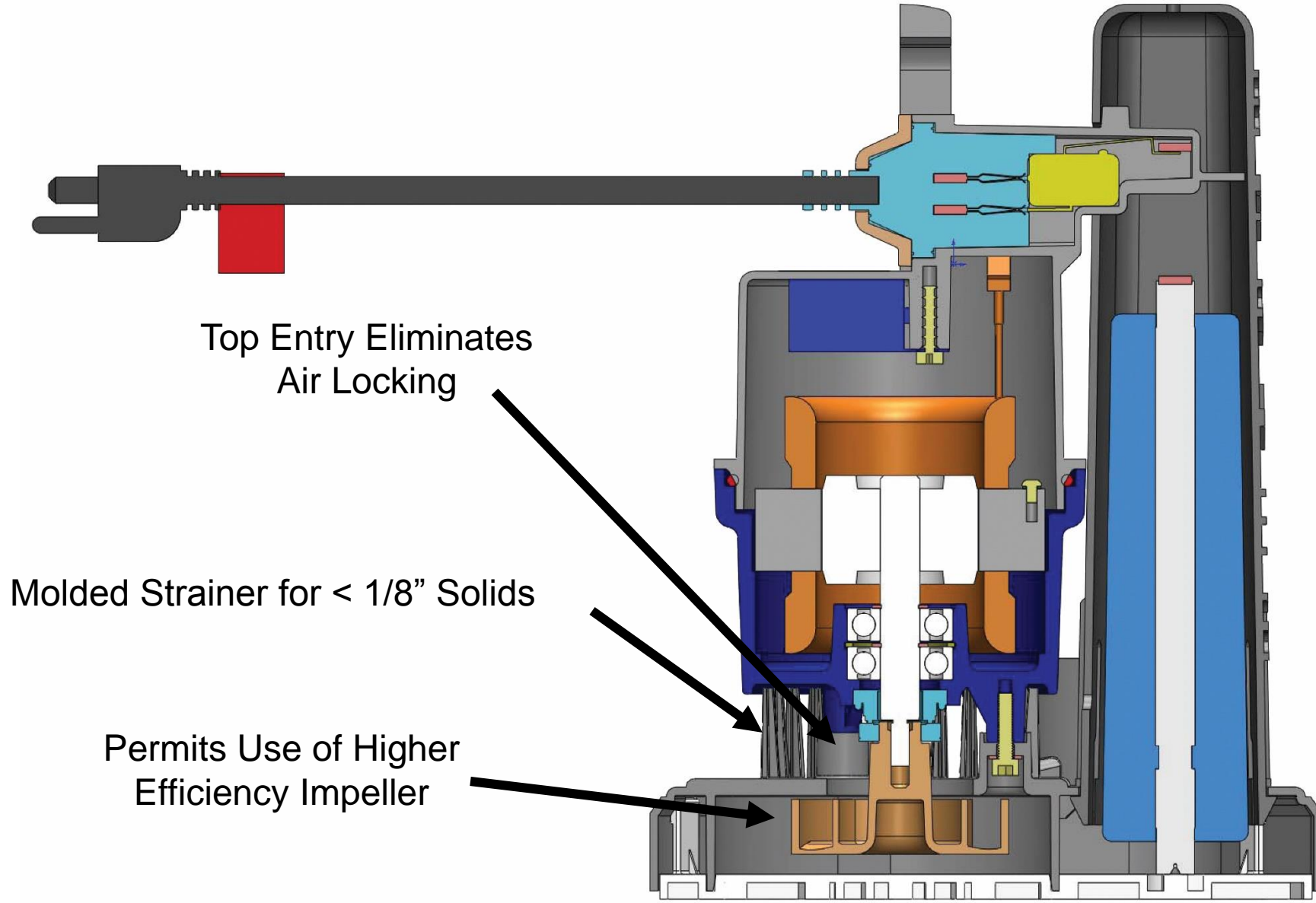
Top Suction Impeller

Everyone. Everywhere. On Time Every Time.

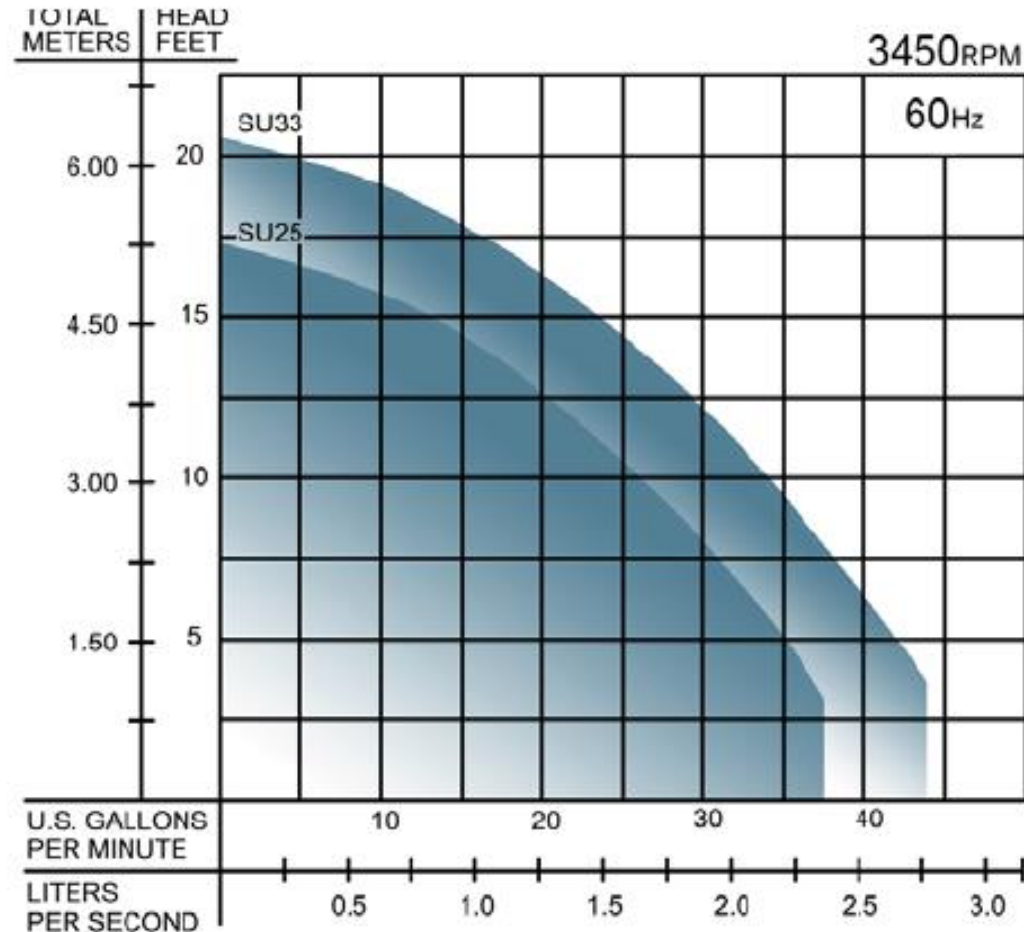


Strainer Design

Everyone. Everywhere. On Time Every Time.



**1/4 and 1/3 HP Sizes
SU25 SU33**



Complete Coverage ...

- **Zoeller M53: 9.7 Amps**
- **Liberty S30: 6.5 Amps**
- **Little Giant 6-CIA: 9.0 Amps**
- **Barnes SU33: 3.4 Amps**
Nearly One-Third of the M53!

**The Barnes SHUR-Switch™ Uses Less Power;
Current Consumption is Another Way to Compare**

Compact Dimensions

Everyone. Everywhere. On Time Every Time.

- Fits in *Less* than a 12" Basin!



- Weighs *Under* 10 Lbs

Bottom View



**Patent Pending*

- **Top Suction – Eliminates Air Lock**
- **GFCI compatible – for NEC 210.8 Compliance**
- **Enclosed, Superior Float Switch – reduce failures**
- **Cast Iron motor housing – runs cooler**
- **Oil Lubrication – long life**
- **Low AMPS – lower cost to operate**

The ***BEST*** Value in Sump Pumps ...

Battery Backup System *Model BUS*



- PUMPING CAPACITY 1000 GPH @ 10 feet
- POWER DRAW: 6 Amps @ 12 Volts
- CHARGER STRENGTH: 0.4 Amps
- Approx. time to recharge a fully discharged battery. 48 Hours
- Approx. continuous pumping with recommended battery 6 - 12 Hours
- A 12 Volt Deep Cycle Marine Battery is recommended (Not Supplied)

BBIS – Battery Backup Inverter

Everyone. Everywhere. On Time Every Time.

Battery Backup Inverter System *Model* *BBIS 15-12*



- Allows your standard 115 volt pump to be utilized providing full flow capabilities even on DC power
- Automatically switch from AC power to battery DC power
- The AC line is protected with 15 Amp slow acting fuse
- 3.0 feet battery cables included, additional cables can be purchased and “daisy chain” additional batteries together to allow for even longer run time capabilities
- A 12 Volt Deep Cycle Marine Battery is recommended (Not Supplied)
- Invert features two 115 volt plug in connections and indicator lights for various charging or warning status

Recommended with either of the following pumps: SP33, SP50, SU25, or SU33