



# Submersible Pump

## Model S4F1-E20

### Size 4"



#### PUMP SPECIFICATIONS

**Diffuser:** G-R Hard Iron;

Maximum Operating Pressure 111 psi (765 kPa).\*

**Impeller:** G-R Hard Iron.

**Seal Plate:** G-R Hard Iron.

**Intermediate:** Aluminum Alloy 356-T6.

**Casing:** Aluminum Alloy 6061-T6 with Chromicoat.

**Motor Housing:** Aluminum Alloy 356-T6.

**Motor Shaft:** Stainless Steel 416.

**Shaft Sleeve:** Stainless Steel 304.

**Bearings:** Upper, Two Synthetic Seals, Single Row Ball Bearing.  
Lower, Two Shields, Double Row Ball Bearing.

**Discharge Flange:** Aluminum Alloy 356-T6.

**Gaskets:** Cork with Nitrile Binder (NC710).

**O-Rings:** Buna-N.

**Wetted Hardware:** Standard Plated Steel and Stainless Steel.

**Strainer:** Urethane Coated Steel; 50.6% Open Area,  
0.375" (9.5 mm) Diameter Openings.

**Hoisting Bail:** Urethane Coated Steel.

#### Standard Equipment

**NEMA Type 3R Rainproof Control Box.** (See Section 130, Page 90.)

Provides On-Off, Circuit Breaker and Motor Overload Protection.

#### Staging Adapter.

#### Optional Equipment

**Liquid Level Control:** (See Sec. 130, Page 150.)

a. Turtle Type Pressure Activated Level Switch.

b. Float Activated Level Switch.

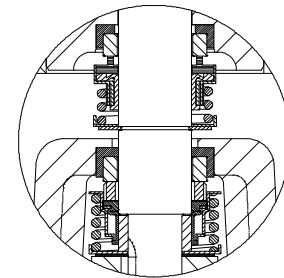
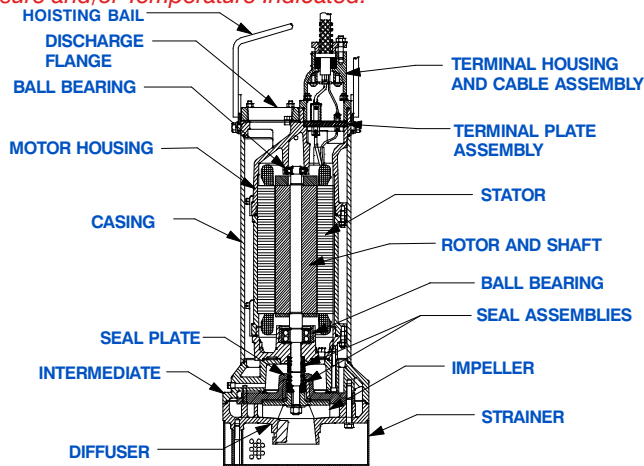
#### MOTOR/CABLE SPECIFICATIONS

**Motor:** Air Filled Enclosure with Thermal Overload Protection; 20 H.P.;  
3450 R.P.M. Three Phase: 460/575 Volt, 60 Hz, 26/20.8 Full Load  
AMPS, 19 kW (Max.)

**Power Cable:** 9 Wire; Type SPC; (3) 8 AWG. Power Conductors, (1) 6  
AWG. Ground Conductor, (4) 14 AWG. Control Conductors and (1) 8  
AWG. Ground Check. Nominal Length 50 Feet (15 m). Standard.  
(Specify Alternate Length at Time of Order.)

**Recommended Generator Size:** 60 kW. Across the Line Start.  
40 kW. for Reduced Voltage Starting.

\* Consult Factory for Applications Exceeding Maximum  
Pressure and/or Temperature Indicated.



#### SEAL SPECIFICATIONS

Tandem, Oil Lubricated.

**Upper Seal:** Type 21, Mechanical. Carbon Rotating Face.  
Ni-Resist Stationary Face. Fluorocarbon Elastomers  
(DuPont Viton® or Equivalent). Stainless Steel 18-8  
Cage and Spring.

**Lower Seal:** Type 2, Mechanical. Tungsten Titanium Car-  
bide Rotating Face and Silicon Carbide Stationary Face.  
Fluorocarbon Elastomers (DuPont Viton® or  
Equivalent). Stainless Steel 303/304 Cage and Spring.

Maximum Temperature of Liquid Pumped, 122°F (50°C).\*



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Specifications Subject to Change Without Notice

Printed in U.S.A.

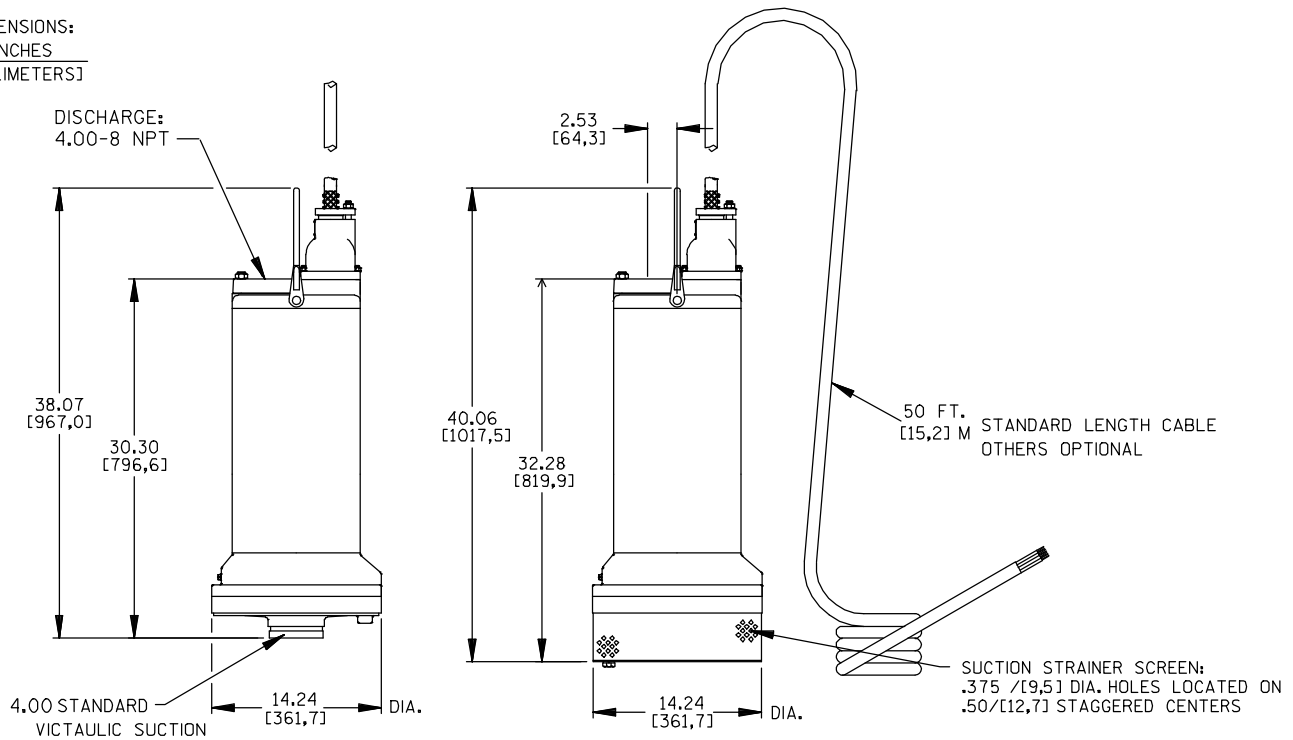
**Specification Data**

**SECTION 130, PAGE 1060**

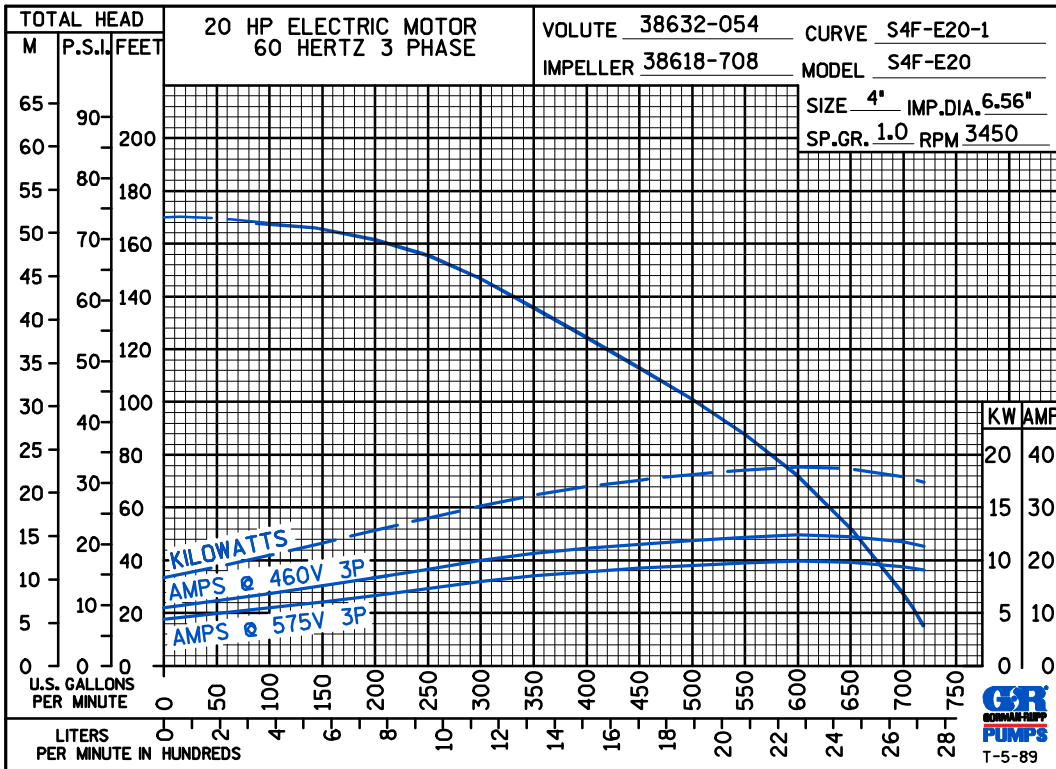
APPROXIMATE  
DIMENSIONS and WEIGHTS

**NET WEIGHT: 424 LBS. (192,3 KG.)**  
**SHIPPING WEIGHT: 494 LBS. (224,1 KG.)**  
**EXPORT CRATE: 10 CU. FT. (0,28 CU. M.)**

DIMENSIONS:  
INCHES  
[MILLIMETERS]



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