



# Submersible Pump

## Model S4E1-E20

### Size 4"

#### PUMP SPECIFICATIONS

**Diffuser:** Aluminum Alloy 356-T6 w/Urethane Bonded Lining.

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

**Adjustable Suction Head:** Aluminum Alloy 356-T6 w/Urethane Bonded Lining.

Maximum Operating Pressure 175 psi (1206 kPa).\*

**Seal Plate:** Aluminum Alloy 356-T6 w/Urethane Bonded Lining.

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

**Pump Casing:** Aluminum Alloy 6061-T6 w/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.

#### Optional Equipment

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

a. Turtle Type Pressure Activated Level Switch.

b. Float Activated Level Switch.

#### Staging Adapter Kit.

#### 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.

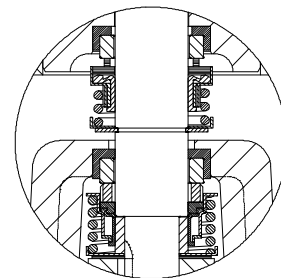
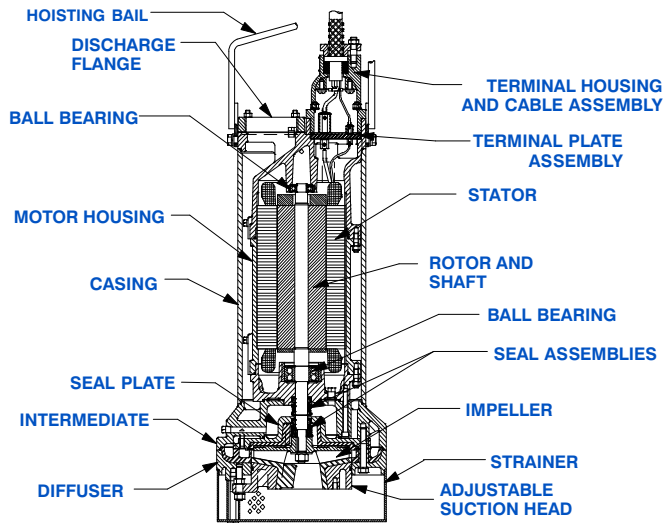
Nominal Length 50 Feet (15 m) Standard.

(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 Carbide 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).\*



## GORMAN-RUPP PUMPS

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Specifications Subject to Change Without Notice

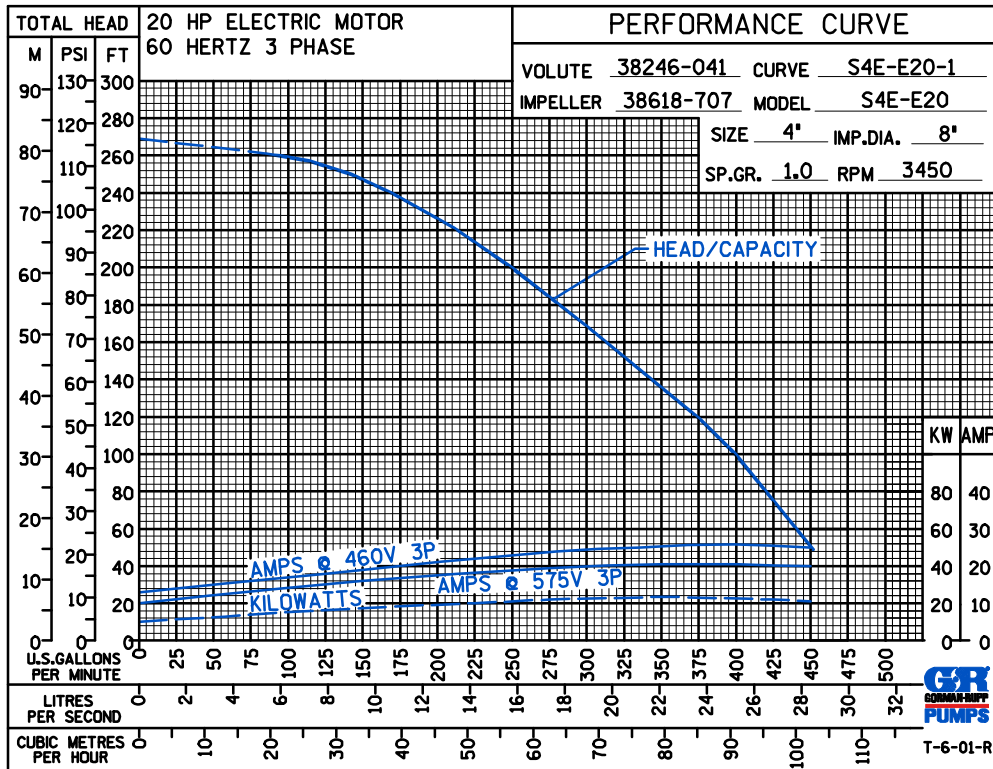
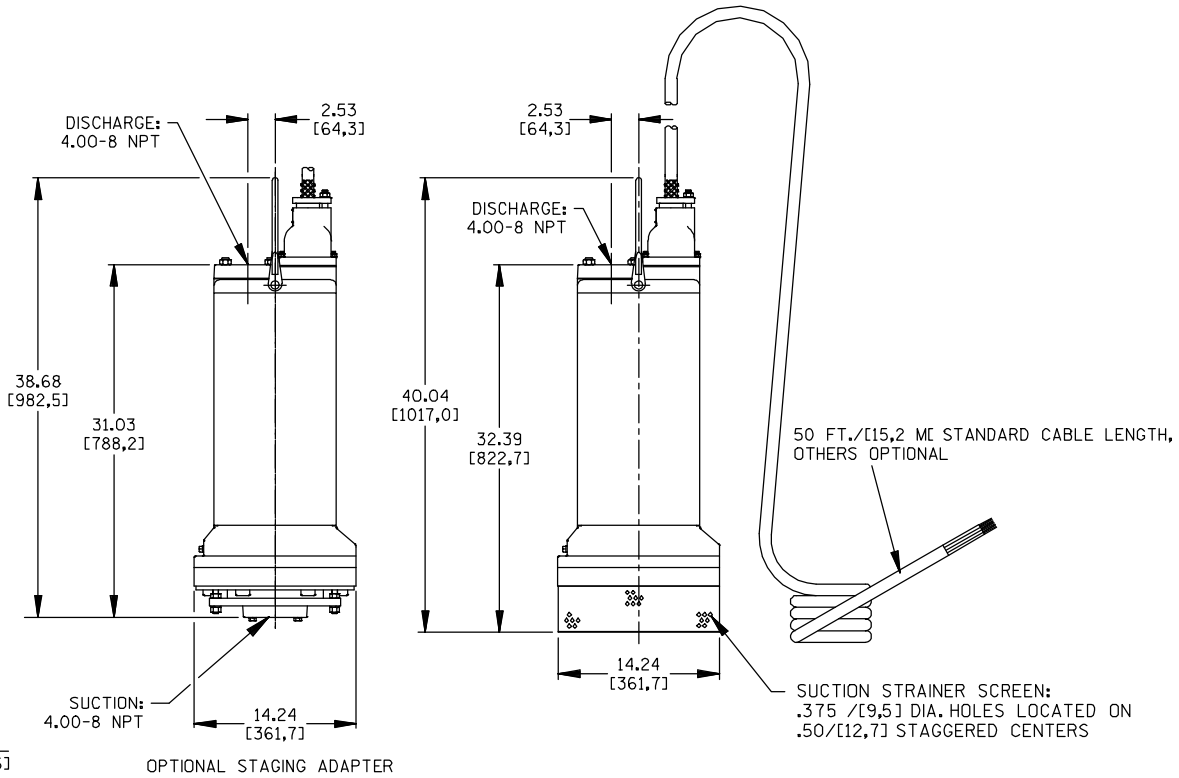
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**Specification Data**

APPROXIMATE  
DIMENSIONS and WEIGHTS

**PUMP & CABLE NET WEIGHT:** 305 LBS. (138,3 KG.)  
**GROSS SHIPPING WEIGHT:** 380 LBS. (172,4 KG.)  
**EXPORT CRATE:** 12 CU. FT. (0,34 CU. M.)

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