



Electric Motor Driven 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

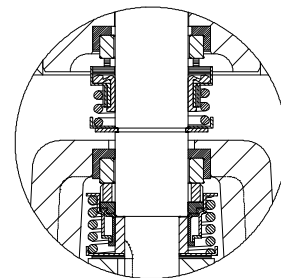
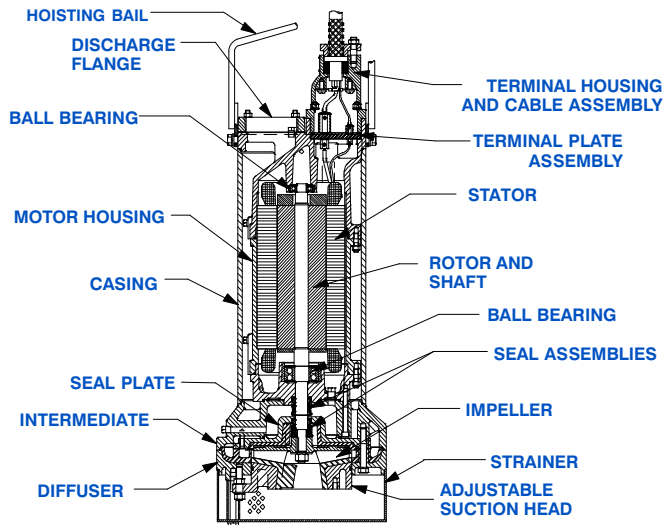
- Motor:** Air Filled Enclosure with Thermal Overload Protection; 20 H.P.; 3450 R.P.M.
Three Phase: 460/575 Volt, 60 Hz, 26/20.8 Full Load AMPS, 19 kW (Max.)
- Power Cable:** 9 Wire; Type SPC; (3) 8 AWG. Power Conductors, (1) 6 AWG. Ground Conductor, (4) 14 AWG. Control Conductors and (1) 8 AWG. Ground 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.



WARNING!

Do not use in explosive atmosphere or for pumping volatile flammable liquids.



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

www.grpumps.com

Specifications Subject to Change Without Notice

Printed in U.S.A.

