



# Submersible Pump

## Model S8B1-E100

### Size 8"



#### PUMP SPECIFICATIONS

**Diffuser:** Ductile Iron 80-60-03;

Maximum Operating Pressure 165 psi (1138 Pa).\*

**Enclosed Type, Impeller:** Ductile Iron 80-60-03.

**Suction Head:** Gray Iron 30.

**Two Wear Rings:** Copper Alloy C83600.

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

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

**Seal Plate:** Gray Iron 30.

**Motor Shaft:** Stainless Steel 17-4 PH.

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

**Discharge Flange:** Gray Iron 30.

**Gaskets:** Cork with Nitrile Binder (NC710) and Vegetable Fiber.

**O-Ring:** Buna-N.

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

**Strainer:** Urethane Coated Steel; 48% Open Area,  
0.62" (15.7 mm) Square Openings.

**Hoisting Bail:** Urethane Coated Steel.

#### Standard Equipment

**NEMA Type 3R Rainproof Control Box.** Provides On-Off, Circuit Breaker and Motor Overload Protection. (See Section 130, Page 100.)

#### Staging Adapter

#### Optional Equipment

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

- Turtle Type Pressure Activated Level Switch.
- Float Activated Level Switch.

#### MOTOR/CABLE SPECIFICATIONS

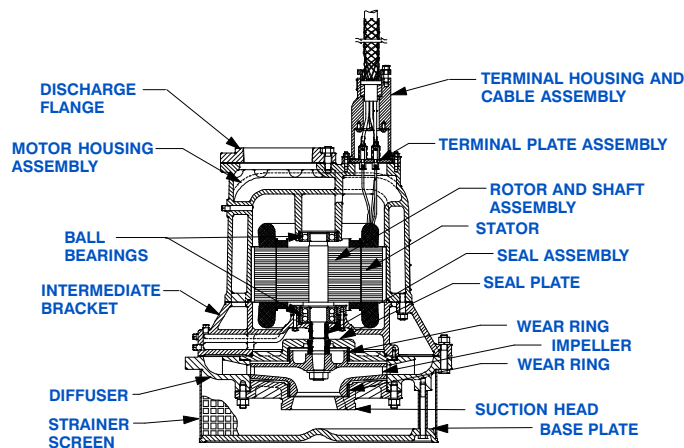
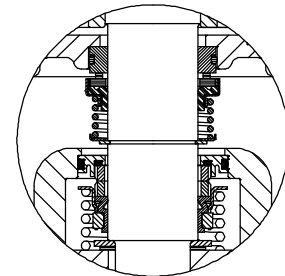
**Motor:** Oil Filled Enclosure; 100 H.P.; 1750 R.P.M.; Three Phase: 460/575 Volt, 60 Hz, 145/108 Full Load Amps, 85 kW (Max.)

**Power Cable:** 6 Wire, Type GGC, 1 AWG; 3 Power Conductors, 2 Ground Conductors and 1 Ground Check. Nominal Length 50 Feet (15 m) Standard. (Specify Alternate Length at Time of Order.)

**Recommended Generator Size:** 200 kW Across-the-Line Start.

100 kW for Reduced Voltage Starting.

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



#### SEAL SPECIFICATIONS

Tandem, Oil Lubricated.

**Upper Seal:** Type 2, Mechanical. Carbon Rotating Face. Ni-Resist Stationary Face. Buna-N Elastomers. Stainless Steel 18-8 Cage and Spring.

**Lower Seal:** Type 2, Mechanical. Tungsten Titanium Carbide Rotating and Stationary Faces. Stainless Steel 316, Stationary Seat. Fluorocarbon Elastomers (DuPont Viton® or Equivalent). Stainless Steel 18-8 Cage and Spring. Maximum Temperature of Liquid Pumped, 122°F (50°C).\*



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**Specification Data**

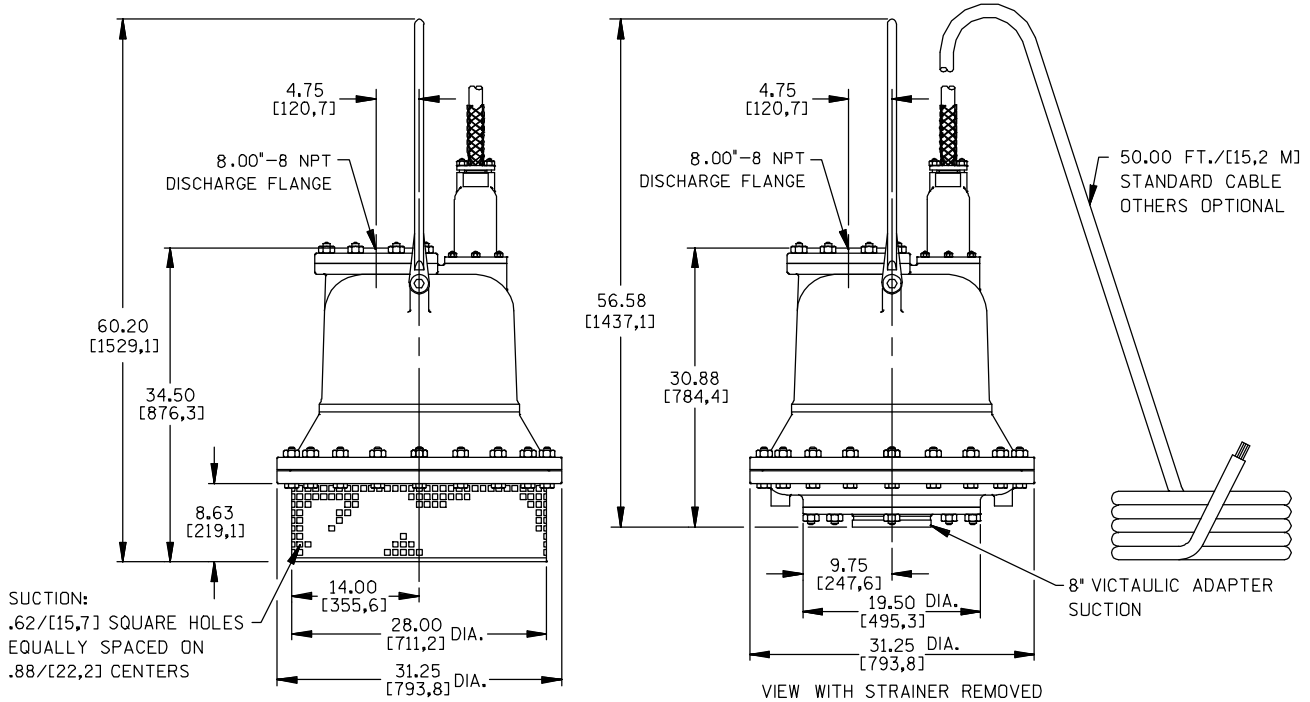
**SECTION 130, PAGE 1545C**

APPROXIMATE  
DIMENSIONS and WEIGHTS

**NET WEIGHT: 1450 LBS. (657,7 KG.)**

**SHIPPING WEIGHT: 1495 LBS. (678,1 KG.)**

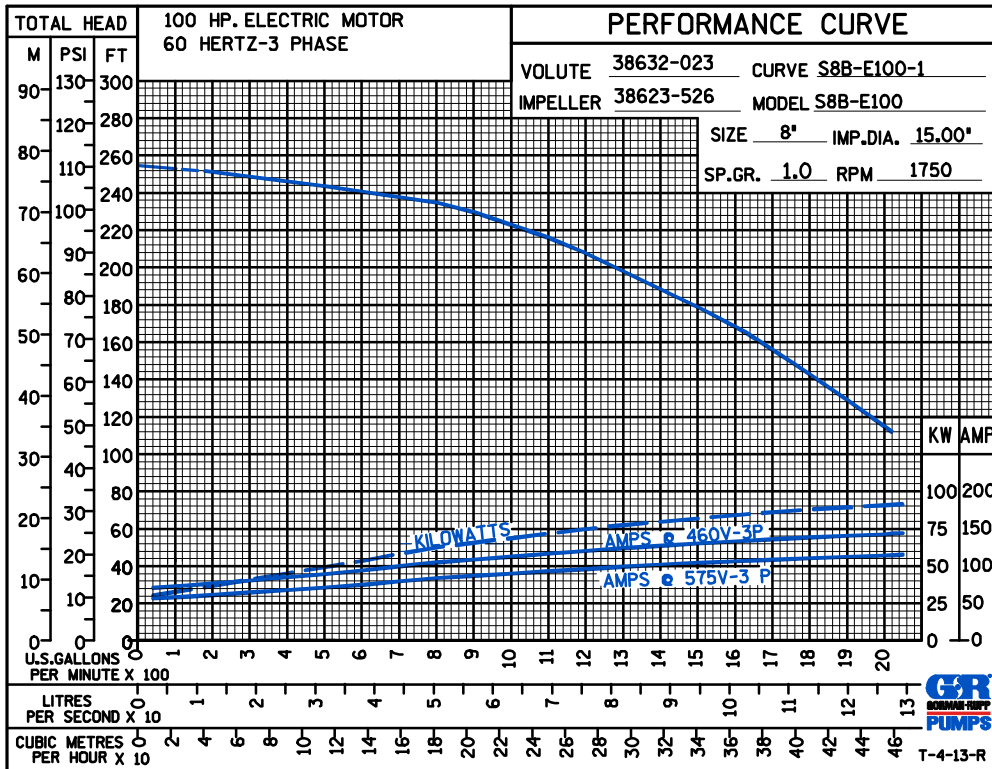
**EXPORT CRATE: 38 CU. FT. (1,08 CU. M.)**



SUCTION:  
.62/[15,7] SQUARE HOLES  
EQUALLY SPACED ON  
.88/[22,2] CENTERS

DIMENSIONS:  
INCHES  
[MILLIMETERS]

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