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# Electric Motor Driven Submersible Pump

## Model SM4K1-X15

### Size 4"



**PUMP SPECIFICATIONS**

**MSHA PUMP APPROVAL - 2G-3971A-0.**  
**COMMONWEALTH OF PENNSYLVANIA APPROVAL BFE 38-13.**

- Diffuser:** G-R Hard Iron;  
Maximum Operating Pressure 175 psi (1207 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.
- Rotor Shaft:** Stainless Steel 416.
- Shaft Sleeve:** Stainless Steel 304.
- Bearings:** Upper - Two Synthetic Seals, Single Row Ball Bearing.  
Lower - Lower, Two Shields, Double Row Ball Bearing.
- Discharge Flange:** Aluminum Alloy 356-T6.
- Gaskets:** Cork with Nitrile Binder (NC710).
- O-Rings:** Fluorocarbon (DuPont Viton® or Equivalent) and 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 10 Explosion Proof Control Box.** Provides On-Off, Circuit Breaker and Motor Overload Protection.

**MSHA Certification X/P-3026-1.**

**Staging Adapter.**

**Optional Equipment**

MSHA-Certified Automatic Control Box, Single Ball Type Float Switch.\*\*  
\*\*Dual Switches and Cable Lengths From 50 to 400 Feet Available.

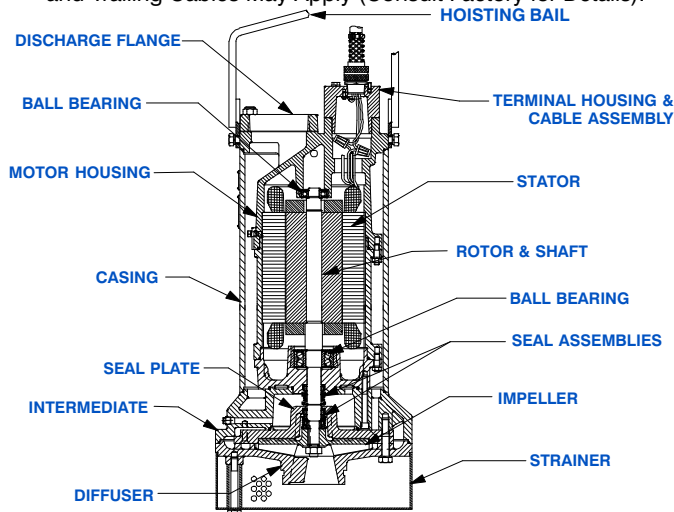
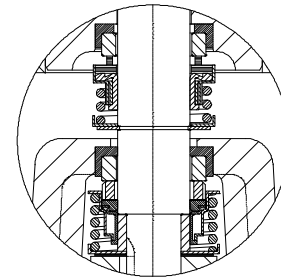
**MOTOR/CABLE SPECIFICATIONS**

**Motor:** Air Filled Enclosure; 15.0 H.P.; 3450 R.P.M.; Three Phase: 460/575 Volt, 60 Hz, 18/14.4 Full Load AMPS; 13 kW (Max.)

**MSHA Certification X/P-3932-0.**

**Power Cable:** 7 Wire, Type SPC; (3) 12 AWG Power Conductors, (2) 14 AWG Control Conductors, (1) 10 AWG Ground Conductor and (1) 14 AWG Ground Check Conductor. Nominal Length 50 Feet (15 m). Standard.  
(Specify Alternate Length at Time of Order).\*\*\*

\*\*\* Circuit Breaker Amp Rating and Maximum Combined Length of Motor and Trailing Cables May Apply (Consult Factory for Details).



**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).\*

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



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GORMAN-RUPP OF CANADA LIMITED • ST. THOMAS, ONTARIO, CANADA

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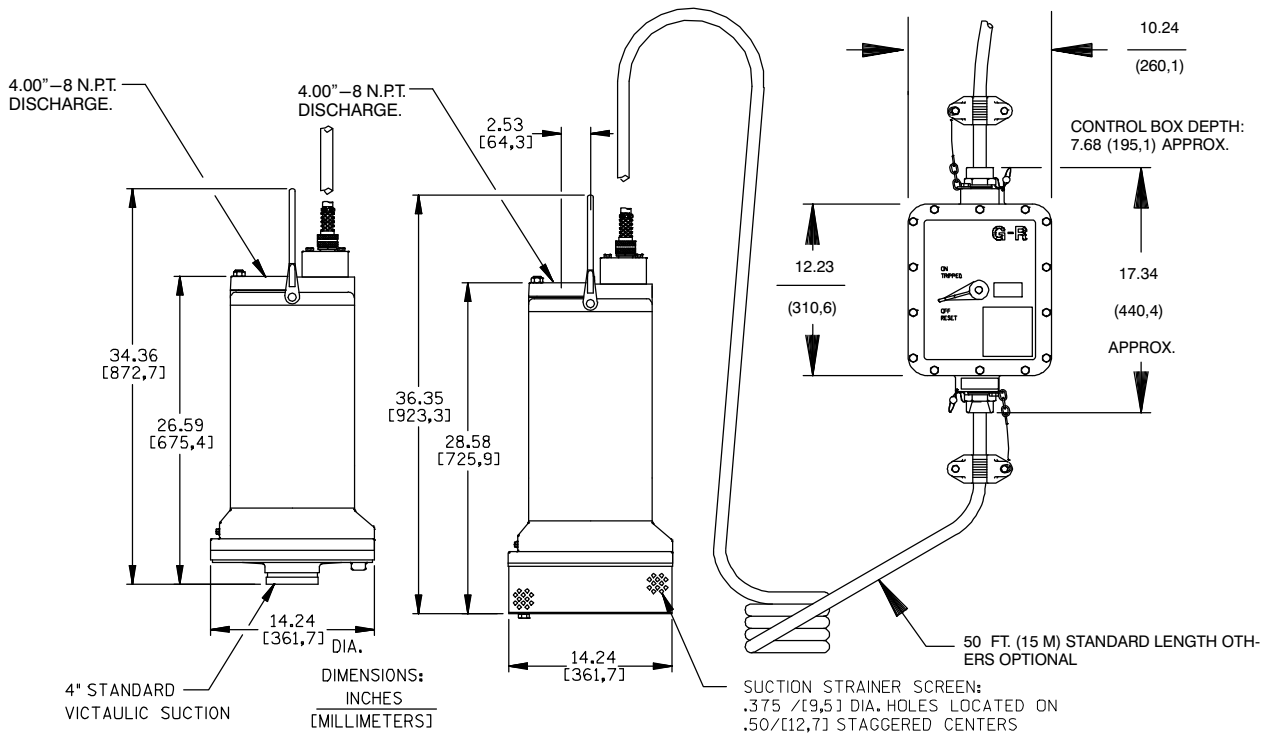
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**Specification Data**

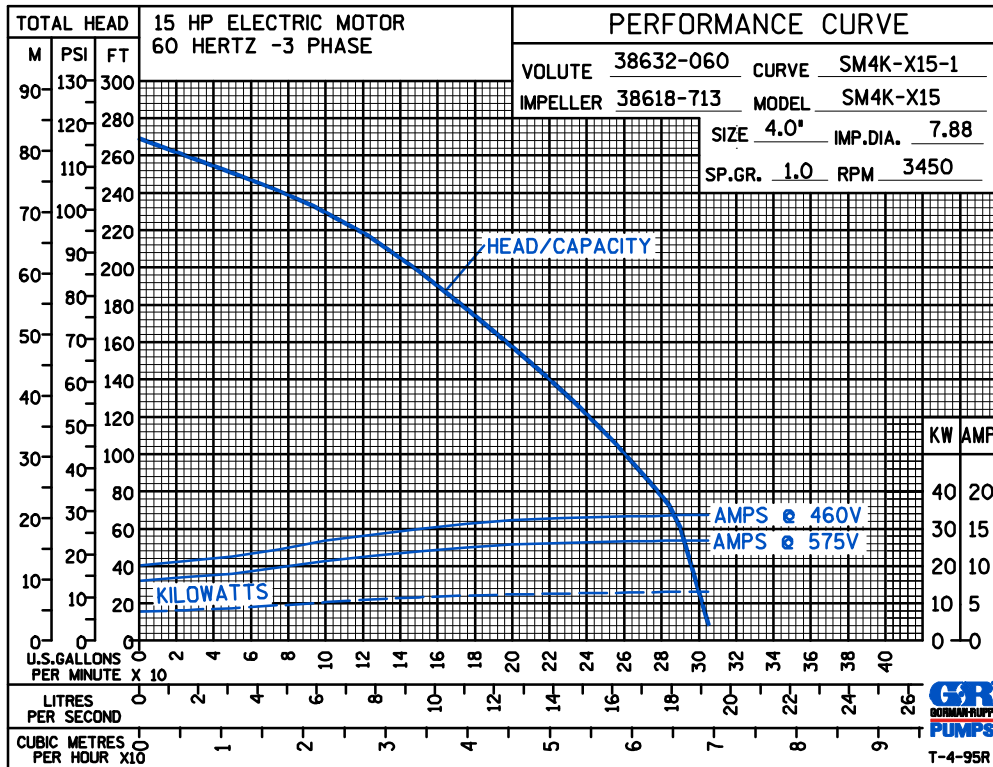
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APPROXIMATE  
DIMENSIONS and WEIGHTS

**PUMP & CABLE NET WEIGHT:** 380 LBS. (172,4 KG.)  
**CONTROL BOX NET WEIGHT:** 35 LBS. (15,9 KG.)  
**GROSS SHIPPING WEIGHT:** 430 LBS. (195,0 KG.)  
**EXPORT CRATE:** 10 CU. FT. (0,28 CU. M.)



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