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SECTION: Z4.10.280

ZM3211

0920

Supersedes

0720

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6932 GUIDE SPECIFICATION

Free-Standing Replacement Assembly for Progressing Cavity Grinders

1.01 GENERAL

The contractor shall furnish and install a replacement progressing cavity grinder pump assembly for an existing wet well / dry well basin configuration designed for use with a progressing cavity grinder pump. The replacement assembly shall drop through the opening into the wet well, sit on the basin floor, providing a view of the basin contents and automatically connect to the discharge piping leading to the pressure sewer system. The assembly consists of a grinder pump, level control switches, SS discharge piping, SS back-flow valve and 10' of electrical cord with a quick disconnect plug. The grinder pump replacement assembly shall be a 6932 system, manufactured by Zoeller Engineered Products Company in Louisville, KY (800-928-7867).

2.01 OPERATING CONDITIONS

The Pump shall be able to deliver ____ GPM against a total dynamic head of ____ feet. The pump will handle materials found in domestic sewage that are deemed acceptable by the local municipal authority. The electrical power source is ____ Volts single Phase.

____ A 1 HP 6932 system featuring the model 7020 grinder pump is rated at 230 V, 7.0 FLA amps and head up to 150' TDH

____ A 2 HP 6932 featuring the model 7021 grinder pump is rated at ____ 230 V (10.5 FLA), 200 V (12.0 FLA) ,12 FLA, 10.5 FLA amps and head up to 240' TDH

3.01 PUMP

The pump shall be a Zoeller Engineered Products ____HP 1750 RPM progressing cavity grinder pump capable of pumping between 6 and 14 GPM. The pump shall be listed as meeting CSA C22.2 108 and NSF/ANSI 46 pump standards. The cast iron housings shall be protected with a powder coated epoxy coating. The motor housing shall have integral cooling fins and be oil filled for superior heat dissipation and continuous lubrication of the seals and bearings. The machined surfaces between castings shall be sealed with Viton elastomers. The PSC Class B motor with a 416 SS motor shaft is equipped with overload protections, upper & lower ball bearings and has a 1.2 Service Factor. The silicon carbide/carbon mechanical shaft seal is seated into the motor adapter and shrouded by the SS deflection shield. A 10' long six-lead SOOW electrical cord with a ____round / ____ rectangular quick disconnect male plug shall mate with the existing female receptacle. Air filled motors will be unacceptable. Centrifugal pumps are not suitable for these type pressure sewer applications.

The pump housing will have a 1.25" NPT discharge. A pressure relief valve, threaded into the pump housing, will protect the pump and system from excessive pressure. The 440 C SS Rockwell C 55-60 hardened Tri-Slice® cutter, located in the pump's suction, will grind up all solids to a 1/4" or smaller particle size as it enters into the pump housing. The surface of the stationary plate is being continually cleared of debris by the rotation and design of the two cutter blades. The SS helix hydraulic rotor, incorporating an upper deflection shield, rotates inside a Buna-N stator, pressurizes the liquid and forces it out into the sewer system. No liner is required to stabilize the hydrostatic stator's wall, to withstand the pressure requirements of the system. The deflection shield, housing the mechanical shaft seal, protects the motor by preventing debris from getting entangled within the mechanism and maintaining its watertight integrity.

4.01 REPLACEMENT PUMP ASSEMBLY

The assembly shall easily replace a pump in an existing wet well / dry well basin package. The assembly is lowered down into the opening of the wet well using the red 3/8" diameter polypropylene lifting rope. An adjustable SS gooseneck connection, fitted with two Buna-N sealing rings, slips into an existing funnel fitting. The gooseneck connection is locked in place when the shut-off valves handle is moved to the open position. The 1.25" discharge piping between the pump and the funnel fitting shall be 304 SS Schedule 40 pipe. The assembly will have a 304 SS back flow preventer. The design shall provide a provision for installing a 304 SS anti-siphon device when required for the location.

The assembly shall include two level control switches that are integrated into the pump and routed through the pump cord and electrical quick disconnect plug. The use of splices or a junction box external to the pump will not be approved. The pump control switch shall be set for a 7" operating range, with an ability to evacuate a minimum of 12 gallons of liquid from the basin during each pumping cycle. An additional 10" of storage capacity is available before the high water alarm activates. In addition to activating the alarm, the closure of the high water alarm switch will initiate a redundant pump run function. As wired into the motor, the manual run feature in the control panel enables the pump to operate, bypassing the control switch.

In most cases there is an existing panel on site that is fully functional with the replacement pump assembly. If the panel is damaged or missing, the supplier of the new assembly must be able to provide a replacement panel that incorporates all the functions of the original panel.

If a panel is required, provide:

___ A UL and CSA listed panel in a NEMA 4X enclosure enabling all pump operations to be functional.

___ A UL and CSA listed panel is a NEMA 4X enclosure enabling the pump to function with an optional 20 amp generator plug.

5.01 TESTING

The pump shall be tested for hydraulic performance, electrical integrity, and liquid intrusion under submerged conditions at the factory during the production process.

Once the assembly is installed and operational the contractor is responsible for conducting a system start up using reporting form ZM1074, provided by Zoeller. A copy of this report shall be kept with the owner's records and another shall be sent to the manufacturer.

6.01 WARRANTY

Standard warranty shall be 24 months from date of purchase (proof of purchase required) or from the date of start up when a Zoeller authorized start up report is on file with Zoeller Company.

7.01 OPTIONS

___ An anti-siphon device is to be provided in the discharge of the pump

___ An extended warranty for ___ total years



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