PUMP SPECIFICATION CGM 11.30

Revised 7/12

THERMOPLASTIC CHEM-GARD[®] CGM SEALLESS HORIZONTAL END SUCTION MAGNETICALLY DRIVEN CENTRIFUGAL PUMP

• GENERAL

Pump to be of sealless design, conform to ANSI process pump standards, and be constructed with all wetted components of polypropylene (PP) or polyvinylidene fluoride (PVDF) homogeneous thermoplastic materials. Flows to 400 GPM ($91m^3/h$). Heads to 180 Ft (55m). Temperatures to $275^{\circ}F$ ($135^{\circ}C$).

• CASING AND BEARING HOUSING

Injection molded homogeneous thermoplastic material selected for compatibility with the fluids being pumped. These are to be solid, not lined, components. Bearing housing to be designed with wide-open fluid passages for continuous flow of fresh liquid to keep magnets cool and bearings lubricated.

• CONTAINMENT CAN

Dual nonmetallic assembly with a fluoropolymer thermoplastic inner can backed by a thermoset composite outer can.

• MAGNETS

High performance, rare-earth magnets selected for power ratings to 30 HP @ 3600 RPM The inner magnet assembly to be encapsulated in thermoplastic material to isolate it from the fluid being pumped.

• IMPELLER

Thermoplastic material injection molded with an embedded dynamically balanced stainless steel insert with radial vanes. Closed vane design, with keyway for mounting on the shaft to assure positive drive.

• SHAFT AND BEARING ASSEMBLIES

Driven shaft to be precision machined, stainless steel with wet end sleeved in thermoplastic. It shall be guided by high PV stationary bearings and rotary sleeve/thrust bearings of silicon carbide. Ultrapure ceramic or similar chemically inert bearing materials are available. External drive shaft to be precision machined stainless steel.

• EXTERNAL ARMOR

Cast iron protective armor surrounding the pump casing to be painted with chemically resistant twopart epoxy resin or similar coating material.

• FACTORY TESTING

Each pump to be tested to assure performance at conditions of service. Test data to be permanently recorded and retrievable on request.

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ΑΝΤΟΝ

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