PUMP SPECIFICATIONS
CGM 11.30

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

- **GENERAL**
  Pump to be of sealles design, comform to ANSI process pump standards, and be constructed with all wetted components of polypropylene (PP), and polyvinylidene fluoride (PVDF) homogeneous thermoplastic materials. Flows to 450 GPM (102m^3/hr). Heads to 280 Ft (95m). Temperatures to 275°F (135ºC).

- **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 non metallic 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 45 hp.

- **IMPELLER**
  Thermoplastic material injection molded with an embedded dynamically balanced stainless steel insert with radial vanes. It shall be of semi open design and have a keyway for mounting on the shaft to assure positive drive.

- **SHAFT AND BEARING ASSEMBLIES**
  Driven shaft to be precision machined stainless steel with the wet end sleeved in thermoplastic. It shall be guided by low PV stationary bearings and rotatory sleeve thrust bearings of silicon carbide. Ultrapure or similar chemically inert bearing materials are available. External shaft to be precision machine alloy steel.

- **EXTERNAL ARMOR**
  The cast iron protective armor surrounding the pump casing to be painted to be painted with two-part chemical resistant 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.

VANTON