

**THERMOPLASTIC CHEM-GARD® CGA  
ANSI HORIZONTAL  
END SUCTION CENTRIFUGAL PUMP**

- **GENERAL**

Pump to conform to ANSI B73.1 process pump standards, and be constructed with all wetted components of polyvinyl chloride (PVC), polypropylene (PP), polyvinylidene fluoride (PVDF) homogeneous thermoplastic materials. Flows to 1150 GPM (261m<sup>3</sup>/h). Heads to 185 Ft (56m). Temperatures to 275°F (135°C).

- **CASING, CASING COVER AND FLANGES**

Injection molded homogeneous thermoplastic material selected for compatibility with the fluids being pumped. These are to be solid, not lined, components. Casing and flanges to be metal armored so that pump can sustain the same nozzle loading as metal pumps.

- **IMPELLER**

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

- **PEDESTAL**

Designed with a wide open seal area sized to accommodate reverse mounted single or double mechanical seals. It shall incorporate a set of parallel sliding bars to permit easy adjustment and positioning of the front bearing assembly without disturbing shaft alignment. Pedestal to incorporate back pullout design per ANSI specification.

- **SHAFT AND BEARING ASSEMBLIES**

Precision machined, stainless steel shaft with wetted end sleeved in thermoplastic. Shaft to be guided by two self-aligning bearings widely spaced for maximum stability and extended life.

- **EXTERNAL ARMOR**

Cast iron protective armor surrounding the pump casing 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.

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