THERMOPLASTIC PRIME PG
SELF-PRIMING
HORIZONTAL CENTRIFUGAL PUMP

- **GENERAL**

  Self-priming pumps to be constructed with all wetted components of polypropylene (PP), and polyvinylidene fluoride (PVDF) solid homogeneous thermoplastic materials. Flows to 175 GPM (40m3/hr), heads to 170 feet (51.8 m), for temperatures to 275 F (135 C). Pumps to be self-priming to 15 feet (4.6m).

- **PRIMING CHAMBER**

  Inntegrally molded, one-piece thermoplastic component which incorporates accessible check valve , inner casing and fluid passages. Design to assure automatic holding of prime on shut down, unless drained for maintenance.

- **PUMP COVER AND CASING ASSEMBLY**

  Injection molded from homogeneous thermoplastic material selected for compatibility with the fluids being pumped. These are to be solid not lined, components.

- **IMPELLER**

  Thermoplastic material, injection molded with an embedded dynamically balanced stainless steel insert with radial vanes. It shall be of semi open vane design with keyway for mounting on shaft to assure positive drive.

- **DRIVE PEDESTAL**

  Designed with a wide open seal area sized to accommodate all commercially available single or double 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. Unit to be interchangeable with standard Chem-Gard pumps.

- **SHAFT AND BEARING ASSEMBLIES**

  Shaft to be precision machined, stainless steel with the wetted end totally sleeved in thermoplastics. It shall be guided by two heavy duty self- aligning bearings widely space for maximum stability and extended life.

- **EXTERNAL ARMOR**

  The cast iron protective armor surrounding the pump casing to be painted to be painted with chemically 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.