THERMOPLASTIC PRIME-GARD® PG SELF-PRIMING HORIZONTAL CENTRIFUGAL PUMP

- **GENERAL**
  Pump to be self-priming and constructed with all wetted components either of polypropylene (PP) or polyvinylidene fluoride (PVDF) solid homogeneous thermoplastic materials. Flows to 175 GPM ($40m^3$/hr). Heads to 170 feet (51.8 m). Temperatures to 275°F (135ºC). Pumps to be self-priming to 15 feet (4.6m).

- **PRIMING CHAMBER**
  Integrally molded, one-piece thermoplastic component incorporating accessible check valve, and unique inner fluid passage design. Pump 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 semiopen vane design with keyway for mounting on 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 specifications.

- **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 spaced for maximum stability and extended life.

- **SUCTION PORT**
  Construction to permit 360 degrees rotation.

- **EXTERNAL ARMOR**
  The 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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