Pump Specification BH Series
Thermoplastic, Horizontal
Centrifugal, Close-Coupled Pump

- **GENERAL**

  Pump casing, impeller, shaft sleeve of (PVC), Polyethylene (PE), polypropylene (PP), polyvinylidene fluoride (PVDF), ethylene-chlorotrofluoro-ethylene (E-CTFE) thermoplastic materials. Flows to 900 GPM (205 m3/h) and heads to 330 FT (100m). Temperatures to 300 degrees F (148 degrees C). Pump casing shall be completely encased in metal.

- **IMPELLER**

  Machined homogeneous thermoplastic material chosen for compatibility with the pumped fluids machined (not molded) from solid plastic. Impeller to be embedded with a dynamically balanced steel insert using fusion welding. It shall be semi-open vane design. The impeller shall have a keyway for mounting on the shaft for positive drive.

- **CASING AND COVER**

  Machined homogeneous thermoplastic material chosen for compatibility with the pumped fluids machined (not molded) from solid plastic

- **PROTECTIVE ARMOR**

  Cast iron will completely encase the casing and cover up to the BHC 5.20 so that no plastic is exposed to external damage. The armor will be painted with an epoxy coating (polyethylene at least 160 microns in thickness)

- **SHAFT AND SLEEVE**

  Alloy steel shaft with shaft sleeve made in thermoplastic material, isolating it completely from the fluid being pumped.

- **DISCHARGE CONNECTION/PIPE FLANGES**

  The piping flanges (suction and discharge) shall be bolted into the carbon steel cover plate, not the plastic flange on the discharge pipe.

- **CONNECTING BRACKET**

  The motor bracket will be designed to accommodate a standard “C” face motor and able to accept single, double or reverse mounted mechanical seals. The stuffing box will be bolted into the steel armor (not the plastic casing).

- **FACTORY TESTING**

  Pumps will be fully tested to assure performance at conditions of service. The test data will permanently recorded and provided upon request.