PENTAIR

MYERS®

Specifications
3WHV and V3WHV

PUMP MODEL – Pump shall be Myers Model Number 3WHV/V3WHV Solids Handling Submersible Pump with 2- vane enclosed impeller. All openings in pump impeller and volute case to be large enough to pass a 2-1/2" diameter sphere. Discharge flange shall be three (3) inch standard.

OPERATING CONDITIONS – Pump shall have a capacity of _____ GPM at a total head of _____ feet and shall use _____ HP motor operating at _____ RPM.

MOTOR – Pump motor shall be of the sealed submersible type rated _____ HP at _____ RPM 60 Hertz. Motor shall be for single phase 230 volts _____ or three phase 200 volts _____ 230 volts _____ 460 volts _____ or 575 volts _____. Single phase motors shall be of capacitor start, capacitor run, NEMA L type. Three phase motors shall be NEMA B type.

Stator winding shall be of the open type with Class F inverter duty insulation good for 155°C (311°F) maximum temperature. Winding housing shall be filled with a clean high dielectric oil that lubricates bearings and seals and transfers heat from winding and rotor to outer shell. Air-filled motors which do not have the superior heat dissipating capabilities of oil-filled motors shall not be considered equal.

Motor shall have two heavy duty ball bearings to support pump shaft and take radial and thrust loads. Ball bearings shall be designed for 50,000 hours B-10 life. Stator shall be heat shrunk into motor housing. On single phase motors a line break overload shall be attached to the windings to stop the motor if the temperature of the winding is more than 130°C. This overload will automatically reset when the motor cools to safe operating temperature. On three phase motors overcurrent protection should be provided in the control panel. The common pump-motor shaft shall be of 416 stainless steel.

SEAL – Motor shall be protected by a mechanical seal. Seal faces shall be lubricated by the oil-filled motor housing above seal. Seal faces shall be carbon and ceramic and lapped to a flatness of one light band. Seal faces of tungsten carbide are optional.

IMPELLER – The impeller shall be cast ductile iron and of the 2-vane solids handling enclosed type. Vane inlet tips shall be carefully rounded to prevent stringy material from catching in vanes. Pump-out vane shall be used in front and back chamber. Impeller shall be dynamically balanced.

Impeller to be driven by stainless steel shaft key and impeller held in place with lock screw and washer. Impeller and motor shall lift off case as a unit without disturbing discharge piping.

PUMP CASE – The volute case shall be cast iron and have a flanged center line discharge. Discharge flange shall be three (3) inch standard with bolt holes straddling center line. The volute shall have integrally cast legs for mounting pump on bottom of wet well (V3WHV).

PUMP AND MOTOR CASTING – The pump shall be painted with waterborne hybrid acrylic/alkyd paint. This custom engineered, quick dry paint shall provide superior levels of corrosion and chemical protection. All fasteners shall be 302 stainless steel.

POWER CABLES – Power cord and control cord shall be double sealed. The power and control conductor shall be sealed with epoxy potting compound to seal outer jacket against leakage and to provide for strain relief to meet agency requirements. Insulation of the power and control cords shall be SOOW or W. The power and control cords shall also have a green carrier ground conductor that attaches to the motor frame.