PENTAIR

MYERS®

Specifications
3RMW

PUMP MODEL – Pump shall be Myers Model 3RMW Single or Dual Seal Solids Handling Submersible Pump with recessed type impeller. All openings in pump shall be large enough to pass a 2" diameter sphere for 3450 RPM and 2-1/2" for 1750 RPM. 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 a _____ 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 _____ phase _____ 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 B insulation good for 130°C (260°F) maximum operating temperature. Winding housing shall be filled with a clean high dielectric oil that lubricates bearings and seals and transfers heat from windings and rotor to outer shell.

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.

SEAL – (Single Seal) – Motor shall be protected by a mechanical seal. Seal face shall be carbon or ceramic and lapped to a tolerance of one light band. Seal faces of tungsten carbide are optional.
(Dual Seal) – Motor shall be protected by two mechanical seals mounted in tandem with a seal chamber between the seals. Seal faces shall be carbon or ceramic and lapped to a tolerance of one light band. A double electrode shall be mounted in the seal chamber to detect any water entering the chamber through the lower seal. Water in the chamber shall cause a red light to turn on at the control box. The signal shall not stop the motor but act as a warning only, indicating service is required.

IMPELLER – The impeller shall be cast ductile iron and of the recessed type. Pump-out vanes shall be used on back shroud. Impeller shall be dynamically balanced. Impeller shall be driven by stainless steel key and impeller held in position with lock screw and washer.

Impeller and motor shall have top lift-out of case so that the assembly can be removed without disturbing any piping.

PUMP CASE – The volute case shall be of cast iron and have a flanged center line discharge. Discharge flange shall be 3" standard with bolt holes straddling center line.

PUMP AND MOTOR CASTINGS – 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.

POWER CABLES – Power cord and control cord shall be double sealed. The power and control conductor shall be single strand sealed with epoxy potting compound and then clamped in place with rubber seal bushing to seal outer jacket against leakage and to provide for strain pull.