



**MYERS®**

## Specifications 3MW SERIES

**PUMP MODEL** – Pump(s) shall be Myers 3MW series single or dual seal solids handling submersible pump. All openings in pump shall be large enough to pass a 2" diameter sphere for 3450 RPM and 2-1/2" for 1750 RPM.

**OPERATING CONDITIONS** – Pump shall have a capacity of \_\_\_\_\_ GPM at a total head of \_\_\_\_\_ ft. and shall use a \_\_\_\_\_ HP motor operating at \_\_\_\_\_ RPM.

**MOTOR** – Pump motor shall be of the sealed submersible type rated \_\_\_\_\_ HP, 60 Hertz. Motor shall be \_\_\_\_\_ phase \_\_\_\_\_ volt. 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 rated for 130°C (260°F) maximum operating temperature. Winding housing shall be filled with clean dielectric oil that lubricates bearings and seals and transfers heat from the 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 a B-10 life of 50,000 hours.

**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.

**PUMP IMPELLER** – Impeller shall be of the two vane enclosed type and be dynamically balanced. A replaceable Buna-N sealing cup shall effect a seal between the volute and impeller in order to maintain high efficiency and prevent recirculation.

**PUMP CASE** – The volute case shall be of cast iron, and the discharge flange shall be 3" standard.

**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 double sealed. The power and control conductor shall be single strand 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.