



Specifications 8SM and 8SMX

PUMP MODEL – Pump shall be Myers Model Number 8SM / 8SMX Solids Handling Submersible Pump with two-vane enclosed impeller. All openings in pump impeller and volute case to be large enough to pass a 3" diameter sphere. Discharge flange shall be eight (8) inch standard. The pump and motor assembly shall be FM listed for Class 1, Division 1 hazardous location service (8SMX only).

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 three phase 460 volts _____ or 575 volts _____. Motor shall be NEMA B type.

Stator winding shall be of the open type with Class H insulation good for 180°C 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 held in place by four (4) clamp rings on the upper end of the stator; each clamp ring shall be held by two (2) motor bolts.

A heat sensor thermostat shall be attached to and embedded in the winding and be connected in series with the motor starter contactor coil to stop motor if temperature of winding is more than 302°F. Thermostat shall reset automatically when motor cools to safe operating temperature. Three heat sensors to be used on 3 phase

PUMP CASE – The volute case shall be cast iron and have a flanged center line discharge. Discharge flange shall be eight (8) inch standard with bolt holes straddling center line. Bronze wear ring to be bolted into case