SUBMERSIBLE CENTRIFUGAL GRINDER PUMPS

WG(X)30H–75H SERIES

PUMP MODEL

Pump shall be of the centrifugal type Myers model _____ or equal with an integrally built-in grinder unit and submersible type motor. Discharge shall be standard 2-1/2" flange. Pump and motor assembly shall be FM listed for Class 1, Group D hazardous location service (WGX30H-75H only).

OPERATING CONDITIONS

Pump shall have a capacity of _____ GPM at a total head of _____ feet and shall use a _____ HP motor operating at 3450 RPM.

MOTOR

Pump motor shall be of the totally enclosed, submersible, squirrel cage induction type rated _____ HP at 3450 RPM, 60 Hz.

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 insulation good for 155°C (311°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. 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 and a sleeve guide bushing directly above the lower seal to take radial load and act as flame path for seal chamber. Ball bearings shall be designed for 50,000 hours B-10 life. Stator shall be heat shrunk into motor housing.

A heat sensor thermostat shall be attached to top end of motor winding and shall be connected in series with the magnetic contactor coil in control box to stop motor if motor winding temperature reaches 221°F. Thermostat to reset automatically when motor cools. Three heat sensors shall be used on three phase motors.

The common motor pump and grinder shaft shall be of #416 stainless steel threaded to take pump impeller and grinder impeller.

SEALS

Motor shall be protected by two mechanical seals mounted in tandem with a seal chamber between the seals. Seal chamber shall be oil filled to lubricate seal face and to transmit heat from shaft to outer shell.

Seal face shall be carbon and ceramic and lapped to a flatness of one light band. Lower seal faces shall be _____ carbide (optional).

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. This signal shall not stop motor but shall act as a warning only, indicating service is required.

PUMP IMPELLER

The pump impeller shall be of the recessed Myers type to provide an open unobstructed passage through the volute for the ground solids. Impeller shall be of 316 SST/CF8M and shall be threaded onto stainless steel shaft. Enclosed or semiopen pump impellers which might become obstructed during grinding or add excessive radial loads shall not be considered as equal.

CORROSION PROTECTION

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 are to be A300 series stainless steel.

BEARING END CAP

Upper motor bearing cap shall be a separate casting for easy mounting and replacement.

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. Cords shall withstand a pull strain to meet FM requirements.

Insulation of power and control cords shall be type SOOW or W. Both control and power cords shall have a green carrier ground conductor that attaches to motor frame.

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