

SPECIFICATIONS FOR 3 - 7½ HORSEPOWER EXPLOSION-PROOF GRINDER PUMP LIFT-OUT RAIL SYSTEMS

GENERAL - Furnish and install a complete grinder pump system consisting of: _____ (qty) Myers _____ (model number) submersible grinder pumps and SRAX-33WG lift-out rail systems, valves, controls, access cover(s) and all other appurtenances to make a complete system. The lift-out rail systems shall be of non-sparking design and shall be UL listed for Class 1, Group D explosion-proof service.

COMPONENTS - Each lift-out rail system shall consist of a ductile iron discharge base, brass faced pump attaching and sealing plate, brass pump guide plate, and cast iron elbow. All exposed nuts, bolts, and fasteners shall be of 300 series stainless steel. No fabricated steel parts shall be used.

ELBOW - Discharge elbow shall be 3" x 3". Elbow shall bolt onto base and have standard 125 lb. flanges.

SEALING - A sealing plate shall be attached to the pump. A simple downward sliding motion of the pump and guide plate on the guide rails shall cause the unit to be automatically connected and sealed to the base. The open face of the sealing plate shall have dovetailed groove machined into the face to hold a sealing "O" ring. The "O" ring shall provide a leakproof seal at all operating pressures.

GUIDE RAILS - Two rail pipes shall be used to guide the pump from the surface to the discharge base connection. The guide rails shall be 1½" Schedule 40 _____galvanized or _____stainless steel pipe. The weight of the pump shall bear solely on the discharge base and not on the guide rails. Rail systems which require the pump to be supported by legs which might interfere with the flow of solids into the pump suction will not be considered equal. The guide rail shall be firmly attached to the access hatch frame. Systems deeper than 21 feet shall use an intermediate guide for each 21 feet of wetwell depth.

LIFTING CHAIN - An adequate length of _____galvanized or _____stainless steel lifting chain shall be supplied for removing the pump. The chain shall be of sufficient length and shall include an adequate number of lifting rings for easy removal.

DISCHARGE PIPING - Schedule 80 PVC discharge piping shall connect to the stationary discharge base lift assembly and terminate at a 2" NPT discharge flange mounted on the basin at the height shown in the plans.

SHUT OFF VALVE - A PVC true union ball type shut off valve with Teflon® seats shall be