PENTAIR

MYERS®

Specifications
RWG-300 Series
Grinder Pump Lift-Out
Check Valve Rail Systems

GENERAL – Furnish and install a complete grinder pump system consisting of _____ (qty) Myers _____ (model number) submersible grinder pump(s) and _____ lift-out rail system(s), valves, controls, access cover(s) and all other appurtenances to make a complete system. For hazardous locations, the lift-out rail systems shall be of nonsparking design and listed for hazardous location service.

RAIL ASSEMBLY – The lift-out rail system assembly shall permit easy removal and installation of the pump and lower check valve without the necessity of personnel entering the wetwell. Structural guide brackets (bronze for hazardous locations) with guide yokes of sufficient bearing strength to prevent binding shall bolt to the pump. The yokes shall mate over guide rails of a minimum of 1-1/4" pipe running between an upper rail support and the discharge case. A lower discharge nozzle at the bottom of the check valve shall be guided into a chamfered cavity in the discharge case. A shoulder on the nozzle shall bottom on the discharge case to ensure alignment for a leak-tight seal. Dual O-rings shall effect a hydraulic seal around the nozzle when it is in its operating position. A brace, easily removable from the top of the wetwell, shall be provided to lock the parts together and to prevent line surges from breaking the seal and allowing leakage. The discharge case shall have a discharge opening for installation of discharge piping.

The discharge case shall be securely bolted to the floor of the wetwell so that slight deflection caused by the discharge pipe will not cause the quick-connect pump flange to leak.

For hazardous locations, all guides, brackets and hold-downs shall be of nonsparking bronze construction.

CHECK VALVE – The lift-out check valve shall be of the swing clapper type with rubber facing. A bronze seat bushing shall be mounted in face of valve to provide a corrosion-proof seat. The clapper shall be mounted on a stainless steel shaft and shall be spring loaded to prevent slamming when closing.

The check valve shall lift out with pump to allow for inspection, cleaning or maintenance of the valve outside the wetwell. No additional check valve shall be required in the discharge piping. All fasteners shall be stainless steel.

LIFTING CHAIN – An adequate length of _____ galvanized or _____ stainless steel lifting chain shall be supplied for removing the pump. The chain shall be minimum 1/4" welded link type, or of adequate strength required to effectively support the weight of the pump assembly during removal or installation.