

# Specifications For 4" Non-Clog Explosion-Proof Sewage Pump Lift-Out Check Valve Rail Systems (For Pump Models 4RX, 4VX, 4VHX, 4RHX, 4RCX, 4VCX)

**GENERAL** - Furnish and install a complete non-clog sewage pumping system consisting of: \_\_\_\_\_ (qty) Myers \_\_\_\_\_ (model number) submersible non-clog sewage pumps and SRAX-400 lift-out check valve rail systems, shutoff valves, controls, access cover(s) and all other appurtenances to make a complete system. The lift-out rail system shall be of non-sparking design and shall be listed for explosion-proof service.

**COMPONENTS** - Each lift-out system shall consist of a discharge and rail support elbow that bolts to bottom of wetwell, a combination check valve and seal flange that mounts to pump, top rail support guides, and guide/support brackets that mount to pump. All exposed nuts, bolts, and fasteners shall be 300 series stainless steel.

**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 open face of the valve shall be tapered and have a holding groove machined in the face to hold a sealing o-ring. The tapered seat shall allow pump to be nearly sealed at discharge elbow before sealing faces make full contact. A guide plate and adjustable guide bar shall fasten to the top of the pump to insure proper alignment and support of the pump.

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. Lift-out systems which do not incorporate a lift-out check valve as an integral part of the lift-out assembly shall not be considered equal.

**ELBOW** - Discharge elbow shall be 4" x 4" and shall be integrally cast into the base assembly.

**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 1-1/2" 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 rails shall be firmly attached to the access hatch frame. Systems deeper than 18 feet shall use an intermediate guide for each 18 feet of wetwell depth.

**LIFTING CHAIN** - An adequate length of \_\_\_\_\_ galvanized or \_\_\_\_\_ stainless steel lifting chain shall be supplied for removing pump. The chain shall be of sufficient length and shall include an adequate number of lifting rings to provide ease of pump removal.