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RAIL SYSTEMS GUIDE SPECIFICATIONS

Z-Rail® with Threaded-Discharge Configuration



1.01 GENERAL

- A. The contractor shall be responsible for all labor, materials, equipment and incidentals required to install a complete rail system for each pump as specified in the documents.
- B. The rail system shall be furnished by the same manufacturer supplying the submersible pump so as to insure compatibility and assurance in matching the proper rail system with the pump being supplied and to assure single source responsibility.
- C. The rail system shall consist of the components enabling the contractor to install the assembly in the basin. These components shall consist of the stationary disconnect fitting, guide rail plate, rail guide, and upper rail support. For basin depths greater than 12', additional intermediate stabilizers shall be required. Each system will require two 3/4" schedule 40 ____ stainless steel, ____ galvanized steel rail pipes to be furnished by the contractor.
- D. The design of the rail system pump connection and discharge shall be:
 - ____ 1-1/4" male vertical NPT pump connection / 2" male NPT discharge pipe connection
 - ____ 1-1/4" male horizontal NPT pump connection / 1-1/4" female NPT discharge pipe connection (for models 7020 and 7021)
 - ____ 1-1/2" male vertical NPT pump connection / 2" male NPT discharge pipe connection
 - ____ 2" male vertical NPT pump connection / 2" male NPT discharge pipe connection
 - ____ 3" male vertical NPT pump connection / 3" male NPT discharge pipe connection
- E. The rail system shall be tested to seat at a pressure up to 160 psi and be constructed to support a pump weight up to 300 lbs.

2.01 CONSTRUCTION

- A. The rail system shall be designed to allow a pump with a threaded vertical discharge connection to easily adapt to an automatic disconnect system. The pump will engage onto the disconnect fitting in a suspended position. Rail system allowing the pump to rest on the basin floor or those that require special proprietary sealing or bracketing shall not be acceptable.
- B. The stationary disconnect fitting shall be epoxy powder coated ductile iron and secured to the floor of basin with (4) 1/2" bolts or rail studs (not included). The disconnect fitting shall have a male NPT ductile iron discharge connection.
- C. The powder coated ductile iron sealing plate with integral rail guide shall have an o-ring to ensure a positive seal. Rail systems having a metal to metal seal with no o-ring or gasket shall not be considered equal.
- D. The upper rail support bracket shall be constructed of powder coated ductile iron.
 - ____ Optional stainless steel upper rail support bracket
- E. Intermediate stabilizer required for rail lengths greater than 12'. The stabilizer shall be constructed of 300 Series stainless steel. Refer to drawing for basin dimensional information.
- F. ____ Optional non-sparking system with brass rail plate and guide for Class I, Division 1, Group C & D locations.

3.01 ACCESSORY EQUIPMENT

- A. ____ Stainless steel lifting cable shall be furnished in a suitable length.
- B. ____ Basin cover shall be furnished. It shall be configured in a manner allowing the pump(s) to be removed from the basin via rail system with no ____ interference from the cover. Refer to the attached drawing for additional details. The cover configuration shall be:
 - ____ Solid fiberglass
 - ____ Solid epoxy-coated 1/4" steel
 - ____ 1/4" epoxy-coated steel with access hatch
 - ____ 300 PSF aluminum with access hatch
 - ____ H-20 traffic-rated

4.01 PIPING

- A. Contractor will furnish (2) 3/4" schedule 40 rail pipes for each rail system, stainless steel or galvanized steel as specified above. These pipes are to be cut to the proper length to interface with the disconnect fitting and upper rail support. The system(s) shall be positioned in such a way as to enable the operator to automatically remove the pump, without entering the basin, as shown in the drawings.
- B. The discharge piping will be as shown in the drawing and include a suitable check and shut-off valve for each pump. All pipe and fittings shall be corrosion resistant. Where piping passes through the wall of the basin, it shall be sealed with a watertight joint or fitting.



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