

SPI GUIDE RAIL ASSEMBLY

SCOPE

This specification is intended to describe the minimum design and manufacturing requirements for stainless steel guide rail assemblies supplied by Steele Plastics of Conway Arkansas.

The guide rail assembly shall consist of 3 basic parts;

Rail Assembly:

The rail assembly shall incorporate the following;

- Rail pipe
- Base plate
- Quick disconnect mounting plate
- Cross brace supports
- Wall supports as required

Pump slide assembly

The pump slide assembly shall incorporate the following;

- Quick disconnect assembly to reduce the need for personnel to enter hazardous locations to make pump connections and disconnections.
- Top rail bracket assembly
- Bottom rail bracket
- Lifting cable
- Check valve
- Pipe nipples to connect top rail bracket, check valve, and pump
- SPI standard discharge depth shall be 36" up from the bottom of the wet well
- Elevated discharge depths available-consult factory

Discharge manifold

The discharge manifold shall incorporate the following;

- Gate valve or true union ball valve.
- Valve extension handle (included in all systems with discharge depth lower than 24”).
- Female threaded discharge coupling
- Standard duplex systems shall tee together into common discharge
- Pipe and fittings required to connect rail assembly from quick disconnect to discharge fitting in wet well wall

Material:

Rail assembly;

- All structural material and fasteners used to construct the guide rail assembly shall be type 304 stainless steel

Pump slide assembly;

- All structural material and fasteners used to construct the rail bracket assembly shall be type 304 stainless steel
- Pipe nipples used will be schedule 40 galvanized or stainless steel
- Top and bottom rail brackets shall be type 304 stainless steel
- Ball check valve shall be cast iron (brass or stainless steel swing check valve is option)
- Quick disconnect assembly shall be solid brass with o-ring seals to maximize liquid tight joint sealing.
- Lifting cable shall be 3/16” 304 stainless steel with a minimum working load of 740 pounds and breaking strength of 3700 pounds

Discharge manifold;

- Brass gate valve or schedule 80 PVC true union ball valve (stainless steel gate valve option).
- Female threaded discharge coupling will be coal tar epoxy coated mild steel or stainless steel.
- Galvanized, stainless steel or schedule 80 PVC pipe and fittings as required to make all connections.

