

# **Steele Plastics, LLC**

1280 Sturgis Rd.

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## **Specifications**

### **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 LLC.

**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 (non sparking modification available).
- Bottom rail bracket (non sparking modification available).
- 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.

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## **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.

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### **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.

As manufactured by Steele Plastics LLC, Conway Arkansas