

ENGINEERED PRODUCTS

3" RAIL SYSTEM



WRITTEN SPECIFICATIONS

1. INTRODUCTION

The 3" Rail System is a non-corrosive system utilizing the Freeflo™ base elbow and is designed to allow for easy installation and removal of submersible pumps from collection basins and tanks. The system has a stationary element fixed to the basin or tank and a removable element allowing for installation and maintenance of the pump.

2. PUMP DISCONNECT

Pump disconnect shall be a Freeflo™ base elbow constructed of ductile iron and powder coated to prevent corrosion.

3. DISCHARGE PIPING

Discharge piping and fittings shall be made of SCH40 304 stainless steel on the pump side of the disconnect. Discharge pipe and fittings on the stationary side of disconnect shall be made of SCH80 PVC. Optional SCH40 304 stainless steel is available.

4. GUIDE RAILS, SUPPORT BRACKETS

Guide rails shall be constructed of 1-1/4" SCH40 304 stainless steel pipe. Guide rail support brackets shall be constructed of 304 stainless steel.

5. CHECK VALVE

Check valve shall be of swing type design with a rating of 200 psi WOG and constructed of cast brass to prevent corrosion.

6. SHUT-OFF VALVE

Shut-off valve shall be a brass gate valve of full flow design with non-rising stem and a rating of 200 psi WOG. Extension handle of 304 stainless steel is supplied with systems of discharge depth 24" or greater.

7. FLOAT TREE, FLOAT BRACKET

Optional float tree shall be 1-1/4" SCH40 PVC pipe extending the length of the basin. Optional float bracket shall be 304 stainless steel.

8. JUNCTION BOX

Optional junction box shall be a corrosion-resistant PVC enclosure of NEMA 4X, 13, design. The cover is secured by four captive brass screws.

9. HARDWARE

All fasteners shall be made of 18-8 stainless steel. 3/16" pull up chain and shackles shall be made of 304 stainless steel. Optional non-sparking coated steel cable is available.

