

## **BERS-0400 (INCLUSIVE OF EX OPTION)**

### **GENERAL DESCRIPTION**

The freeflo base elbow rail system is designed to allow for easy installation and removal of submersible or similar type pumps from collection basins or tanks. The system will have a stationary or fixed component (base elbow), a removable component (pull-out flange assembly), and a series guide rails brackets or supports.

### **BASE ELBOW**

Shall be constructed of cast ductile iron (65-45-12) and be powder coated to prevent corrosion. Base elbows constructed of other materials shall not be considered equal. The base elbow shall have six (6) mounting slots cast integral with the base elbow for mounting to the tank or basin floor, and provide multiple sized pins to allow for the use of various sizes of guide rails or pipes. Base elbows without slotted mounting holes or with single size pins for guide rails shall not be considered equal. The base elbow shall have a 90 degree elbow cast integral with it, which will be cast with an 4" ANSI flange to allow for connection to pump system and pass a full spherical solid thru it (4" for BERS-0400H). When assembled with the pull-out flange, the base elbow shall provide a sealed junction between the pump and the pump system and support the weight of the pump.

### **PULL-OUT FLANGE ASSEMBLY**

Shall be constructed of cast ductile iron (65-45-12). Pull out flanges constructed of other materials shall not be considered equal. The pull-out flange assembly shall provide a means for attaching to the pump discharge and be removable from the pump system without disturbing the system piping. The pull-out flange assembly shall be for 4" horizontal flanged type discharge pumps and have eight (8) threaded holes for securing the pump discharge to the pull-out flange. The pull out flange shall have a stainless steel or buna sealing ring attached to per job specification. Pull out flanges with out stainless steel of buna seal rings shall not be considered equal.

### **LOWER GUIDE RAIL PLATE**

Shall be constructed of ductile iron (65-45-12) and be cast integral with the pull-out flange Lower guide rail plates constructed of other materials shall not be considered equal.

### **INTERMEDIATE & UPPER GUIDE RAIL BRACKETS**

Shall be constructed of 300 series stainless steel and have pins sized to fit into the inside diameter of the guide rails or pipes being used. Intermediate or upper guide brackets constructed of other materials shall not be considered equal. The upper guide bracket shall have compressible elastomer type pins to limit vibration. The intermediate guide bracket shall have 300 series stainless steel guide pins and be used for every 10 foot on tank or basin depth.

### **FASTENERS**

All fasteners shall be 300 series stainless steel. Fastener constructed of other materials shall not be considered equal.