



INSTALLATION, OPERATION, AND MAINTENANCE INSTRUCTIONS

MODEL SA - PUMP SUCTION DIFFUSERS

The Metraflex model SA suction diffuser combines a system strainer, a flow straightening device, and a 90° elbow into one single unit.

INSTALLATION

Figure 1

1. Install Model SA pump suction diffuser to leave sufficient room to allow removal of screen. See dimension "M" on the submittal drawing SD-1(B).

2. Support the suction diffuser to prevent strain on the pump case. A support foot (not furnished) shall be made of a sufficiently long section of 1-1/4" sch. 40 pipe, between the diffuser and the floor. Cut pipe to length or use an adjustable support similar to Figure 1.

3. If the pump is mounted on an isolation base, the base should be large enough to include the diffuser's support foot.

4. Install using a criss_cross bolt tightening pattern. Care should be taken not to over tighten the bolts to prevent possible cracks in the casting.

5. A pressure_vacuum gauge may be installed to monitor pump suction pressure.

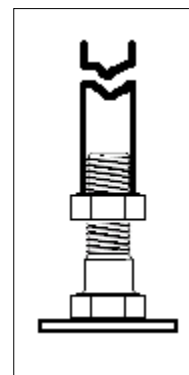


Fig.1

OPERATION

The mesh "start up" screen should be removed after initial system operation.

MAINTENANCE

Periodic cleaning of the screen is needed to maintain NPSH and prevent pump cavitation. Take care when removing and replacing cover to prevent damage to o-ring seal. Replacement o-rings are available. Contact Metraflex or your nearest representative.

The Metraflex Company

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