

MEP1000 Standpipe Diverter Installation and Operating Instructions



WARNING: These products contain a chemical known to the state of California to cause cancer and birth defects or reproductive harm

Installation

1. Weld Diverter Body inside tank centered over opening in flange weld pad, or directly to tank if no weld pad is provided.

Note: The bottom of Diverter Body is curved to match tank curvature and must be oriented properly to minimize additional "heel".

2. Weld 3" standpipe, discharge (spray-fill) nozzle and supports as required. (Nozzle design is critical to effective tank and vapor space cooling.)

Note: To prevent interference with Diverter Guard, do not allow standpipe to protrude more than 1/2" below lid of diverter body.

3. Use a rotary grinder / sander or other means to thoroughly deburr and break all sharp edges of flange opening.
4. Remove any contaminants from inside Diverter Body that may have accumulated during welding or grinding.
5. Roll Diverter Seal up tightly, insert through flange opening with seal tabs pointing down and allow seal to unroll.
6. Manipulate Seal so hole in end is aligned with stud as shown (Figure 1) and press seal onto stud.

Note: This step can be very difficult and the following suggestions may help:

- The two studs closest together are for the ends of the seal - start with either one and work around the seal finishing with the remaining end.
- When rotating the seal inside the diverter, hold the inside end and turn it in a direction that causes it to roll tighter - this will cause the seal to rotate more freely.
- Lubricating the seal with talc or a Nitrile-safe lubricant may make it easier to insert and reposition.
- Using a mirror or flexible inspection camera to see inside diverter may help to get seal aligned.

7. Align and press seal onto remaining studs.

Note: Confirm that ends of seal are not overlapping.

8. Install a Washer and Locking Nut on each stud and tighten until nut is two to three threads past flush.

Note: A 1/4" ratchet wrench with a 9/16" socket works well in the confined space.

9. Install Diverter Guard onto internal valve until flange of guard contacts internal valve flange.

10. Install internal valve and confirm that internal valve opens and closes properly.

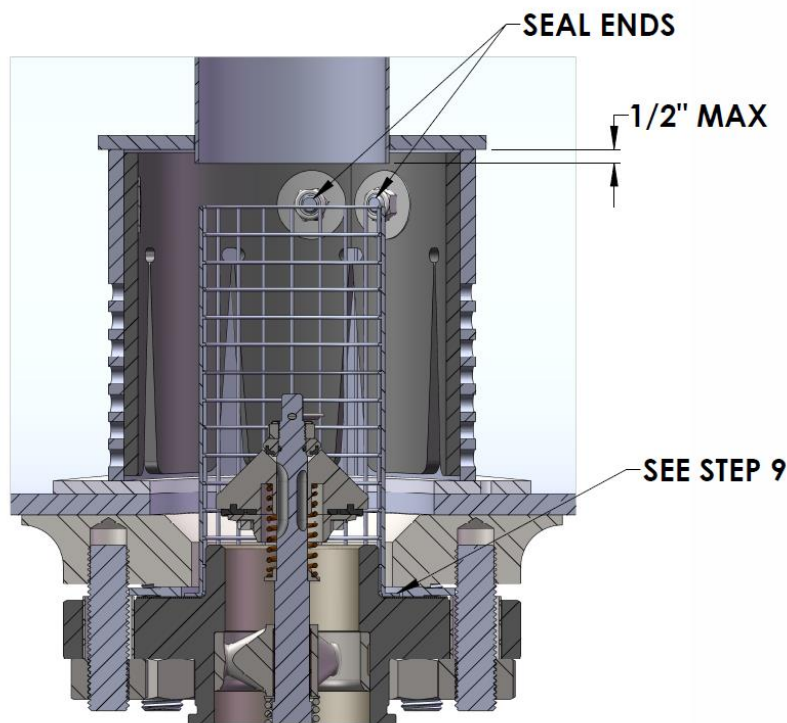


FIGURE 1

Marshall Excelsior Company

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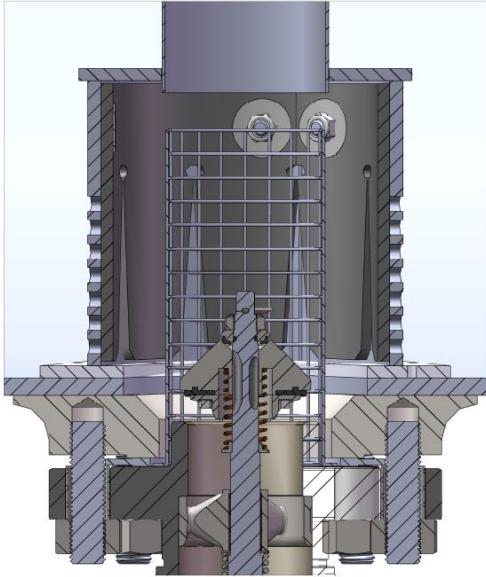
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Operating Instructions

Loading

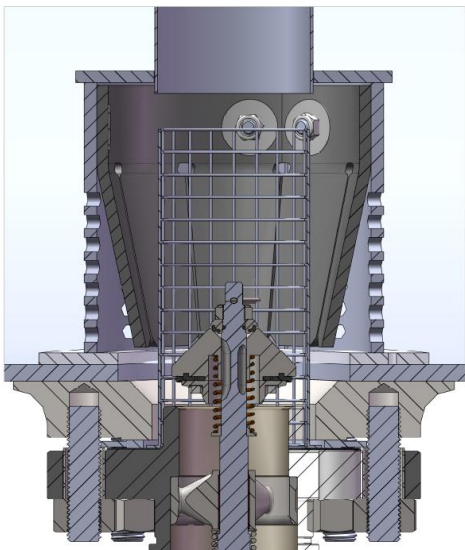
When loading through the diverter, the check seal will automatically divert the flow through the standpipe and out the discharge nozzle into the vapor space. A minimum flow of 20 to 30 GPM or a differential pressure of 2 to 3 psi (between the tank and pump) is required for the diverter to function properly.



LOADING

Unloading

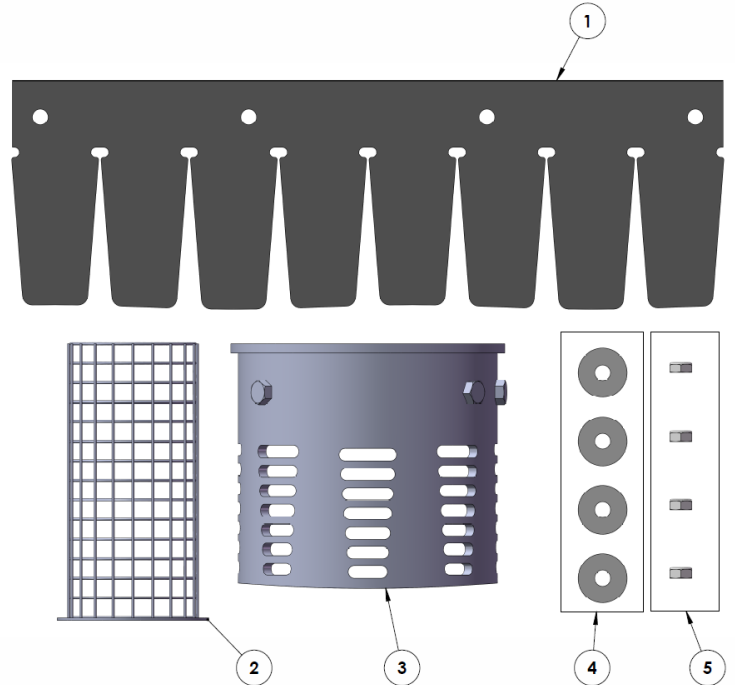
When unloading through the diverter, the check seal will automatically open allowing fluid from the bottom of the tank to flow freely out through the port.



UNLOADING

Maintenance

The standpipe diverter is constructed of durable materials and was designed to withstand years of continuous use. To assure continued performance, the seal should be inspected and replaced, as necessary, during the course of routine or scheduled service.



Parts List

1. Diverter Seal
2. Diverter Guard
3. Diverter Body
4. Washer
5. Locking Nut