

Guideline Specifications

Magnet Lid Retrofit Assemblies

About the Product

Diversified manufactures unique magnet lid assemblies to keep sumps dry. These assemblies include a magnetic Lid and an adaptor ring. When supplied on Diversifieds tank sumps the adaptor ring with imbedded magnetic attraction is integral with the sump riser. On retrofit applications the adaptor is manufactured to match the requirements of the existing sumps' riser. An installation tool consists of a large Lexan plate that is provided to assure plannularity of the adaptor ring after installation.

Guideline Specifications

Magnetic Lid Assembly (SU-MLA)

Provide Magnetic Lid assemblies as shown on the drawings or as otherwise specified. Magnetic Lid assemblies shall consist of a magnetic lid (SU-ML) and an adaptor ring (SU-AR). The magnetic Lid assembly shall not be greater than 4 ½" tall and the lid shall not extend beyond 34 ½" in diameter.

Magnetic Lid (SU-ML)

For each Tank Sump, provide a Magnet Lid. Magnetic lids shall be manufactured using isopthaulic or vinyl ester resins and fiberglass mat. Lids shall be resin transfer molded and shall have a smooth finish on both the interior and exterior of the lid. Lids shall mate with the adaptor ring. Lids shall contain a replaceable fuel resistant seal. Lids shall be equipped with a sufficient number of rare earth magnets to assure a minimum of 30 ft lb of thrust to release the lid form the attractor. Lids shall be water tight when installed.

Lids shall be equipped with Acetal handles in two locations. The lid is designed to be lifted. Do not rotate lid when removing.

Lids shall be equipped with a vent manufactured out of oleophobic and hydrophobic materials. The vent shall not allow water or oil to enter the sump through its membrane but shall allow venting of vapor pressures that may build within the sump.

Adaptor Ring (Magnetic adaptor) (SU-AR)

The adaptor shall be fabricated out of isopthaulic resins and chopped fiberglass. The magnetic attractor portion of the adaptor shall have a highly magnetic metal components molded into the mating portion of the adaptor. The magnetic attractor portion of the adaptor shall be 1" thick and shall have a flat plannular surface to mate with the Magnetic Lid. All attractors shall be of a standard size to mate to the Magnetic Lid.

Adaptors shall be designed to extend to any riser. The adaptor portion of the attractor may extend inward from the attractor or may extend outward from the attractor. The adaptor portion shall bond to the existing sump by extending a minimum of 2" into the existing riser or on the outside of the existing riser.

The adaptor shall be designed to allow a flat fiberglass floor to be manufactured into the adaptor. When supplied with a floor, the floor may be field cut and bonded to any oval riser that fits within the diameter of the adaptor.

The adaptor shall be bonded to existing risers with Diversified's CH-DEB epoxy bonder. CH-DEB shall bond the adaptor to fiberglass, HDPE or steel risers.

Installation Tool (SU-MLA-Tool)

The installing technician shall verify the installation by use of the installation tool. The tool consists of a 36" diameter flat Lexan plate with handles. The plate shall be placed on the installed adaptor ring with a few drops of oil (with dye) placed between the tool and the adaptor ring. If the adaptor ring is planular, the dye will easily cover the surface of the magnetic portion of the adaptor ring. If the oil does not disperse evenly across the entire surface of the adaptor ring, the adaptor will need to be replaced or resurfaced.

Shipping, Restrictions & Data

Follow installation instructions for Diversified Magnetic Lid Assembly.

Magnetic lids shall be manufactured in the USA.

Magnetic Lids shall be 3rd party approved.

Use the following recommended products when installing a magnetic Lid assembly. CH-DBC II Cleaner, CH-DEB Epoxy.