Installation Information

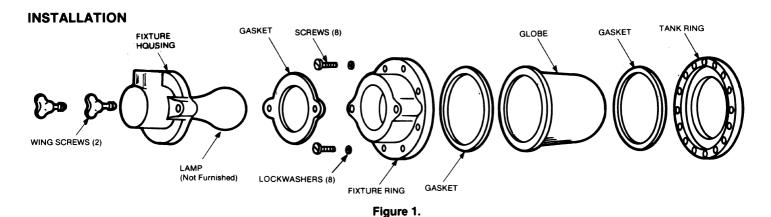
APPLICATION

Crouse-Hinds Model V160 Tank Observation Lights are mounted directly into tank walls to light the inside of tanks, vats and process vessels used in food and beverage process industries.

V160 Tank Observation Lights are suitable for use in water tight

areas when installed in compliance with the National Electrical Code® and any local codes.

When properly installed, gasketed, and captivated by the fixture ring/tank ring assembly, the V160 globe is capable of withstanding up to 200 psi external pressure from within the tank, above or submersed in tank contents.



V160 Detail View

WARNING

Electrical Power must be turned off before and during installation and maintenance.

 If tank light is received assembled, disassemble by removing the two wing screws then the fixture housing. Remove the eight 1/4-20 screws and washers and separate the fixture ring, globe and gaskets from tank ring.

WARNING

Be sure that tank is completely free of any hazardous vapors, gases or liquids before securing tank ring to tank.

 Using the tank ring as a template, locate and prepare a 4-11/16 inch diameter opening into the tank. Secure the tank ring to the outside of the tank with eight (8) counter-sunk head 3/16 inch diameter rivets or braze ring to tank if desired.

CAUTION

To reduce the possibility of globe breakage, the tank ring must not be warped or distorted when attached to the tank wall. The tank wall area must be flat with no ridges, seams or curves. When riveting, use a sequential installation procedure. When brazing to tank wall be sure that excessive heat does not warp ring or tank wall. Brazing material must be compatible with tank material.

CAUTION

The globe is tempered glass. Avoid scratching or chipping.

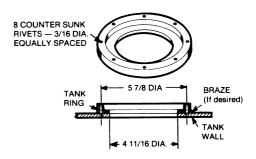


Figure 2.
Tank Ring Mounting

3. Place gasket over globe and insert into tank. Place second gasket on globe flange. Place fixture ring over globe flange gasket and secure with eight 1/4"-20 screws and washers. Sequentially tighten screws to 130 in. lbs. torque.

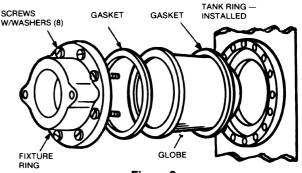


Figure 3.
Globe & Fixture Ring Installation

4. Connect to conduit system. A Crouse-Hinds EC flexible coupling or CG Series connector with flexible cord or cable should be used, so relamping can be accomplished without disturbing the globe.

WARNING

Do not use fixture on ungrounded circuits.

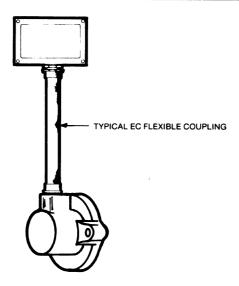


Figure 4. V160 Tank Light Installation

 Disassemble lampholder from fixture housing. Attach supply wires to the lampholder terminals. Reassemble lamp holder to fixture housing.

CAUTION

Do not exceed lamp size or wattage specified.

 Install 50, 60, 75 or 100 watt, A-21, 120V, medium base lamp (user supplied) into lampholder in fixture housing. Insert lamp through fixture ring and secure fixture housing with two wing screws.

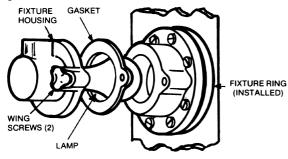
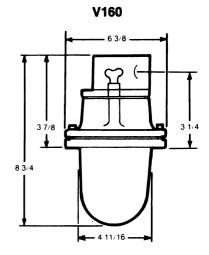


Figure 5.
Lamp/Fixture Housing Installation

DIMENSIONS



LAMP RATING

Watts (Max.)

Lamp Type A-21 Medium Base, 120V

MAINTENANCE

- Frequent inspection should be made. A schedule for maintenance check should be determined by the environment and frequency of use. It is recommended that it should be at least once a year.
- If necessary to open housing for inspection or service, always disconnect primary power source before opening enclosure.
- 3. Perform visual, electrical, and mechanical checks on all components on a regular basis.
 - Visually check for undue heating evidenced by discoloration of wires or other components, damaged parts, or leakage evidenced by watter or corrosion in the interior.
 - Electrically check to make sure that all connections are clean and tight.
 - Mechanically check that all parts are properly assembled.

All statements, technical information and recommendations contained herein are based on information and tests we believe to be reliable. The accuracy or completeness thereof are not guaranteed. In accordance with Crouse-Hinds "Terms and Conditions of Sale", and since conditions of use are outside our control, the purchaser should determine the suitability of the product for his intended use and assumes all risk and liability whatsoever in connection therewith.



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