

Subject 1450

November 2, 2018

## **SUMMARY OF TOPICS**

***The following changes in requirements to the Standard for Motor-Operated Air Compressors, Vacuum Pumps, and Painting Equipment, UL 1450, are being proposed for preliminary review and comment only:***

### ***1. For Preliminary Review Only: Proposed Revision To And Addition Of Requirements To Address Compressor Constructions That Employ Alternative Means To Drain Pressure Vessels***

## **COMMENTS DUE: November 16, 2018**

This proposal is for review and comment only (no ballot at this time). Please note that comments on a preliminary review document will not receive a response from the proposal author through CSDS. Instead, the proposal author will be asked to review the comments and adjust the proposals and/or supporting rationale as the author determines to be appropriate. The preliminary review process is an informal mechanism that provides authors with the opportunity to refine their proposals before they advance to the next stage in UL's standards development process.

In some cases, the author of the proposals may choose to discontinue them. In this case, the author need not do anything after preliminary review has ended. Normally, the next step in the process is the more formal STP ballot and stakeholder review process. Only comments posted during the STP ballot and stakeholder review process will be provided with a response in CSDS.

UL's goal is to have no interest category comprise more than one-third of the STP membership balance. To improve the current balance for STP 1450, UL is looking for participants in the Supply Chain; Commercial/Industrial User; AHJ; Government; and Consumer interest categories. Definitions for these interest categories are available on the Standards STP Internet site:

<http://ulstandards.ul.com/develop-standards/participation/interest-categories/>

If you are interested in applying for STP 1450 membership or are aware of potential candidates for this STP, please contact the STP Project Manager, [name@ul.com](mailto:name@ul.com).

For your convenience in review, proposed additions to existing requirements are shown underlined and proposed deletions are shown ~~lined-out~~.

### **1. For Preliminary Review Only: Proposed Revision To And Addition Of Requirements To Address Compressor Constructions That Employ Alternative Means To Drain Pressure Vessels**

## **RATIONALE**

Proposal submitted by: John Stimitz, UL LLC

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Compressors presently employ alternative means to drain pressure vessels by automatic drain assembly systems through valve and tubing systems. Currently, UL 1450 does not address these alternative means. Accordingly, an Exception to Paragraph 36.1.8 is being proposed, that addresses automatic drain systems.

Corresponding to the proposed change in Paragraph 36.1.8, new and revised marking and instruction requirements are being proposed:

- To require a marking to address access to manual drain systems located behind a door panel;
- To require a CAUTION statement in the instruction manual; and
- To include instructions on how to manually drain an automatic drain system.

The proposed changes reflect present practice for such systems on the market.

## PROPOSAL

36.1.8 When the unit is in its normal operating position, the a drain hole shall be provided in the lowest portion of a pressure vessel. The hole shall be a threaded hole of not smaller than 1/4-in NPT and shall be provided with a removable plug or piping to a drain cock. The system shall have provision for gravity or pressure drainage of the vessel.

*Exception: No. 1: Pressure vessels which have a drain hole located at the maximum of 45° from the lowest point of the vessel, comply with the requirement when:*

- a) The product is marked in accordance with 65.15;*
- b) The instruction manual informs the user of the way in which to drain the pressure vessel properly; and*
- c) The product can be tilted so that the drain hole is at the lowest point for complete draining without introducing a risk of injury to persons.*

*Exception: No. 2: As an alternative, pressure vessels may be provided with a drain assembly system, (manual or automatic) operated through a valve and tubing assembly where the end of the tubing is maintained at the bottom of the vessel. An automatic drain assembly system shall also have the provision to manually drain the vessel. See 65.15.1, 66.9, and 66.10.*

65.15 A product constructed in accordance with the Exception No. 1 to 36.1.8 shall be marked adjacent to the drain hole and visible while the product is in use with the word "CAUTION" and the following or equivalent: "Risk of Bursting – Tilt tank to drain."

65.15.1 A product constructed with a door to gain access to a tank drain assembly in accordance with Exception No. 2 of 36.1.8 shall be marked on the door panel with the word "CAUTION" and the following or equivalent: "Risk of Bursting – Open Door To Access Drain Assembly."

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