

UNDERWRITERS LABORATORIES INC. CERTIFICATION REQUIREMENT DECISION

This Certification Requirement Decision is prepared by UL LLC. It is normative for the applicable UL Product Certification Program(s); however, it is currently not part of the UL Standard(s) referenced below.

Product Category (CCN): QDGS

Standard Number: UL 1450

Standard Title: Standard for Motor-Operated Air Compressors, Vacuum Pumps, and Painting Equipment

Edition Date: May 5, 2010

Edition Number: 4

Section / Paragraph Reference: 36.1.8, 65.15, 65.15.1

Subject: Automatic and manual drain assembly systems for pressure vessels

DECISION:

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 to 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."

66.9 A product marked in accordance with 65.15.1 shall have the statement "CAUTION – Risk of Bursting – Open Door To Access Drain Assembly." or the equivalent appearing in the instruction manual.

66.10 A product evaluated in accordance with the Exception No. 2 to 36.1.8 shall include instructions in the manual on how to manually drain the system in the event of malfunction of the automatic drain system.

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RATIONALE FOR DECISION:

Compressors presently employ alternative means to drain pressure vessels by automatic drain assembly systems, through valve and tubing systems. Therefore, this Certification Requirement Decision provides an additional exception to Clause 36.1.8, allowing automatic drain systems. In addition, a CAUTION marking to address access to manual drain systems located behind a door panel has been added as well including the CAUTION statement in the manual along with instructions on how to manually drain the automatic drain system. This reflects present practice for such systems on the market.

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