

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): VIZM, VIYY

Standard Number: UL 213

Standard Title: Standard for Rubber Gasketed Fittings for Fire Protection Service

Edition Date: November 4, 2004

Edition Number: 4

Section / Paragraph Reference: Revised Clause 5.5 New Clause 6.3

Subject: Standard Groove Dimensions

DECISION:

5.5 STANDARD GROOVES – Dimensions of the pipe, fitting, or valve end specified by the rubber gasketed fitting manufacturer that complies with the dimensions of ~~Fire protection – Automatic sprinkler systems – Part 12: Requirements and test methods for grooved end components for steel pipe systems; ISO 6182-12, for cut, rolled and cast grooves~~ AWWA C606, Grooved and Shouldered Joints, intended for use with a groove type rubber gasketed fitting to join pipe, fittings, or valves, fittings, or valves.

6.3 Rubber gasketed fittings for use with standard grooves shall be compatible with grooves having the dimensions of AWWA C606, Grooved and Shouldered Joints, for cut and rolled grooves. Cast grooves shall comply with the dimensional requirements for cut grooves in AWWA C606 in order to be considered standard grooves, with the following exceptions:

a) Cast Groove Diameter (C) lower tolerances are permitted to be -0.030" for 3/4" to 1-1/2" sizes; -0.040" for 2" to 2-1/2" sizes; -0.050" for 3" to 6" sizes; and -0.060" for 8" sizes and greater in lieu of the negative tolerances shown in AWWA C606.

RATIONALE FOR DECISION:

UL 213 currently references ISO 6182-12, Requirements and test method for grooved-end components for steel pipe systems, for the definition of standard groove requirements. However, ISO 6182-12 has been under consideration for revision for several years as there were some corrections that needed to take place within the groove dimension tables. The absence of these corrections and updates has been problematic for evaluation to UL 213.

As ISO 6182-12 was further discussed by the technical committee at a recent international meeting, it was realized that there is continued difficulty harmonizing groove requirements across the existing country requirements. The decision was made by the committee to remove the tables and defer to the country of use for groove requirements.

To align with this direction, this Certification Requirement Decision and accompanying proposal seeks to revise UL 213 to reference AWWA C606 instead of ISO 6182-12 for the groove requirements.

AWWA C606 only references cut and rolled grooves, however common industry practice is that cast grooves comply with the cut groove dimensional requirements with some minor differences in the tolerance. Therefore the proposal incorporates exceptions on tolerances for cast grooves complying with the cut groove requirements of AWWA C606 to be considered standard grooves.

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