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An American National Standard

Standard Specification for Entrainment Separators for Use in Marine Piping Applications[1]

This standard is issued under the fixed designation F1006; the number immediately following the designation indicates the year of original adoption or, in the case of revision, the year of last revision. A number in parentheses indicates the year of last reapproval. A superscript epsilon (ε) indicates an editorial change since the last revision or reapproval.

ε[1] NOTE—The Keywords Section was editorially added in November 2014.

1. Scope

1.1 This specification covers the minimum requirements for the pressure-temperature rating, testing, and making of pressure-containing vessels for entrainment separators.

1.2 The values stated in inch-pound units are to be regarded as standard. The values given in parentheses are mathematical conversions to SI units that are provided for information only and are not considered standard.

1.3 The following safety hazards caveat pertains only to the test methods portion, Section 6, of this specification:*This standard does not purport to address all of the safety concerns, if any, associated with its use. It is the responsibility of the user of this standard to establish appropriate safety and health practices and determine the applicability of regulatory limitations prior to use.*

2. Referenced Documents

2.1 *ANSI Standards:*[2]
B2.1 Pipe Threads (Except Dryseal)
B16.1 Cast Iron Pipe Flanges and Flanged Fittings
B16.3 Malleable Iron Threaded Fittings, Class 150 and 300
B16.4 Cast Iron Threaded Fittings, Class 125 and 250
B16.5 Steel Pipe Flanges and Flanged Fittings
B16.11 Forged Steel Fittings, Socket Welding and Threaded
B16.15 Cast Bronze Threaded Fittings, Class 150 and 300
B16.24 Bronze Flanges and Flanged Fittings, Class 150 and 300
B16.25 Buttwelding Ends
B16.31 Nonferrous Pipe Flanges
2.2 *ASME Standards:*[3]
SA278 Cast Gray Iron Pressure Vessels
SA395-60 Cast Ductile Iron
Boiler and Pressure Vessel Code, Section VIII
Boiler and Pressure Vessel Code, Section II
2.3 *MSS Standards:*[4]
MSSSP-51 150 LB Corrosion Resistant Cast Flanges and Flanged Fittings
2.4 *Military Standards:*[5]
MIL-F-1183 Fittings Tube, Bronze, Cast (Silver Brazings)

3. Definitions of Terms Specific to This Standard

3.1 *entrainment separator*—a mechanical device inserted in a pipeline which by centrifugal force, baffles, or other means will separate a liquid from a gas (vapor).

3.2 *hydrostatic test*—the act of filling an entrainment separator vessel with water and applying internal pressure to all parts of the vessel.

3.3 *master gage*—the calibrated gage used to verify the accuracy of the test gage. This gage shall be recalibrated traceable to the National Bureau of Standards.

3.4 *pressure rating*—the maximum working pressure of an entrainment separator when operated at a specific temperature.

3.5 *proof test*—the act of filling an entrainment separator vessel with water and applying internal pressure to all parts of the vessel for the purpose of causing yielding of the vessel and bursting of the vessel.

[1] This specification is under the jurisdiction of Committee F25 on Ships and Marine Technology and is the direct responsibility of Subcommittee F25.11 on Machinery and Piping Systems.

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[2] Available from American National Standards Institute (ANSI), 25 W. 43rd St., 4th Floor, New York, NY 10036, http://www.ansi.org.

[3] Available from American Society of Mechanical Engineers (ASME), ASME International Headquarters, Two Park Ave., New York, NY 10016-5990, http://www.asme.org.

[4] Available from Manufacturers Standardization Society of the Valve and Fittings Industry (MSS), 127 Park St., NE, Vienna, VA 22180-4602, http://www.mss-hq.com.

[5] Available from Standardization Documents Order Desk, DODSSP, Bldg. 4, Section D, 700 Robbins Ave., Philadelphia, PA 19111-5098, http://www.dodssp.daps.mil.

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