



Standard Practice for Ultrasonic Examination of Heavy Steel Forgings¹

This standard is issued under the fixed designation A 388/A 388M; 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.

1. Scope^{*}

1.1 This practice² covers the examination procedures for the contact, pulse-echo ultrasonic examination of heavy steel forgings by the straight and angle-beam techniques. The straight beam techniques include utilization of the DGS (Distance Gain-Size) method. See [Appendix X3](#).

1.2 This practice is to be used whenever the inquiry, contract, order, or specification states that forgings are to be subject to ultrasonic examination in accordance with Practice A 388/A 388M.

1.3 The values stated in either SI units or inch-pound units are to be regarded separately as standard. The values stated in each system may not be exact equivalents; therefore, each system shall be used independently of the other. Combining values from the two systems may result in non-conformance with the standard.

1.4 This specification and the applicable material specifications are expressed in both inch-pound units and SI units. However, unless the order specifies the applicable "M" specification designation [SI units], the material shall be furnished to inch-pound units.

1.5 *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 ASTM Standards:³

[A 469/A 469M](#) Specification for Vacuum-Treated Steel Forgings for Generator Rotors

[A 745/A 745M](#) Practice for Ultrasonic Examination of Austenitic Steel Forgings

[E 317](#) Practice for Evaluating Performance Characteristics of Ultrasonic Pulse-Echo Testing Instruments and Systems without the Use of Electronic Measurement Instruments

[E 428](#) Practice for Fabrication and Control of Metal, Other than Aluminum Reference, Blocks Used in Ultrasonic Examination

[E 1065](#) Guide for Evaluating Characteristics of Ultrasonic Search Units

2.2 ANSI Standard:

B 46.1 Surface Texture⁴

2.3 Other Document:

Recommended Practice for Nondestructive Personnel Qualification and Certification SNT-TC-1A, (1988 or later)⁵

3. Terminology

3.1 Definitions:

3.1.1 *indication levels (clusters), n*—five or more indications in a volume representing a 2-in. [50-mm] or smaller cube in the forging.

3.1.2 *individual indications, n*—single indications showing a decrease in amplitude as the search unit is moved in any direction from the position of maximum amplitude and which are too small to be considered traveling or planar.

3.1.3 *planar indications, n*—indications shall be considered continuous over a plane if they have a major axis greater than 1 in. [25 mm] or twice the major dimension of the transducer, whichever is greater, and do not travel.

3.1.4 *traveling indications, n*—indications whose leading edge moves a distance equivalent to 1 in. [25 mm] or more of metal depth with movement of the transducer over the surface of the forging.

4. Ordering Information

4.1 When this practice is to be applied to an inquiry, contract, or order, the purchaser shall so state and shall also furnish the following information:

4.1.1 Designation number (including year date).

4.1.2 Method of establishing the sensitivity in accordance with [8.2.2](#) and [8.3.3](#) (Vee- or rectangular-notch).

¹ This practice is under the jurisdiction of ASTM Committee A01 on Steel, Stainless Steel and Related Alloys and is the direct responsibility of Subcommittee A01.06 on Steel Forgings and Billets.

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² For ASME Boiler and Pressure Vessel Code applications see related Specification SA-388/SA-388M in Section II of that Code.

³ For referenced ASTM standards, visit the ASTM website, www.astm.org, or contact ASTM Customer Service at service@astm.org. For *Annual Book of ASTM Standards* volume information, refer to the standard's Document Summary page on the ASTM website.

⁴ Available from American National Standards Institute (ANSI), 25 W. 43rd St., 4th Floor, New York, NY 10036.

⁵ Available from the American Society for Nondestructive Testing, 1711 Arlington Ln., P.O. Box 28518, Columbus, OH 43228-0518.

^{*}A Summary of Changes section appears at the end of this standard.

Astm A388

DP Hallahan

A red circular graphic with a gradient, appearing as a semi-circle or a partial circle, located to the right of the author's name.

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The Code of Federal Regulations of the United States of America ,1980 The Code of Federal Regulations is the codification of the general and permanent rules published in the Federal Register by the executive departments and agencies of the Federal Government *The Best Knowledge of Piping Engineering II* ,2025-11-15 It gives me great pleasure and sense of deep satisfaction to publish this book of The Best Knowledge of Piping Engineering II You can learn how to design material selection and testing fabrication erection construction inspections and quality control of pipe along with weld joints detail joint preparation pipe cutting joints fit up welding of pipe pipe supports and steel structural platforms fabrication and installation etc and teach yourself to be a master of the process piping construction with the step by step instructions and quality control It provides all the information about tools and equipments being used in the piping construction work An engineer is the tradesperson who is busy in fabrication installation assembly testing maintenance and repair of process piping systems Fresh Piping engineer usually begins as apprentices and deals with industrial commercial marine piping and process piping systems Typical industrial process pipe works under high pressure and temperature and requires metals such as carbon steel stainless steel alloy steel cupronical and many different alloying metals fused together through precise cutting threading grooving bending and welding Piping engineer plan and test piping and tubing layouts cut bend or fabricated pipe or tubing segments and joints of those segments by threading welding brazing cementing or soldering them together They check the installation of manual pneumatic hydraulic and electric operated valves on pipes to control the flow through the pipes or tubes They do testing and inspection of the piping system Piping engineers are often exposed to hazardous or dangerous materials such as asbestos lead ammonia steam flammable gases various resins and solvents including benzene and various refrigerants Much progress was made in the 20th century toward eliminating or reducing hazardous materials exposures Many aspects of hazardous materials are now regulated by law in most countries including asbestos usage and removal and refrigerant selection and handling Other occupational hazards include exposure to the weather heavy lifting crushing hazards lacerations and other risks normal to the construction industry This book has proved to be a friend and guide to many Piping engineer Contractors and Technicians working with any Construction or Consultants Companies who are responsible for Laying out assembling or installation of piping systems pipe supports applying their knowledge of construction experience following blueprints and select the type and size of pipe related materials and equipment such as supports hangers and hydraulic cylinders according to piping drawings and specifications **Code of Federal Regulations** ,1980 *Nuclear Science Abstracts* ,1971 **Testing and Inspection of Offshore and Marine Lifting Appliances** Richard Rossi Ciampolini,Alexander Arnfinn Olsen,2024-10-02 This book introduces details of inspection criteria and inspection techniques which are widely recognized by the marine construction industry as a reliable means of inspection of structure members and their welds during the construction of surface vessels and other related marine and

offshore structures This text incorporates the criteria for phased array ultrasonic testing PAUT Since 2016 PAUT has become a common non destructive testing method in use in shipyards for marine and offshore structures across the world as it provides quicker examination than conventional UT technique for complex geometries Moreover this book includes guidance for time of flight diffraction TOFD ultrasonic inspection The TOFD ultrasonic examination technique provides improved detection and sizing capabilities of discontinuities compared to standard ultrasonic pulse echo techniques Both PAUT and TOFD produce a permanent record of the inspection in electronic format

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Spert III Pressurizer Vessel Failure R. E. Heffner, 1962 *Quality Assurance: Guide to Specifying NDT in Materiel Life Cycle Applications* United States. Army Materiel Command, 1970 **Oil & Gas Design Engineering Guide Book** M. Aslam Imadi, 2023-02-03 Oil Gas Design Engineering Guide Book consists of a set of valuable practices applicable to design engineering services such as Projects Engineering Design House Requisites Guidelines for Technical Package Writing Quality Assurance Management System Typical set of Project Design Deliverables and some prevalent Design Engineering Software It also includes guide notes for various oil gas facilities such as pipelines piping tanks pressure vessels rotating equipment heaters heat exchangers effluent water treatment systems and flares It is noted that the documents and articles included in this book will surely be of assistance and value to the readers and specifically to engineers in the Oil Gas field Lloyd's

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such as Kaizen TPM and TQM It presents Six Sigma and Lean tools for heat exchangers manufacturing industries The book explores heat exchanger manufacturing methods such as fabrication of shell and tube heat exchangers and brazing and soldering of compact heat exchangers The book serves as a useful reference for researchers graduate students and engineers in the field of heat exchanger design including pressure vessel manufacturers **NBS Special Publication** ,1977

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