

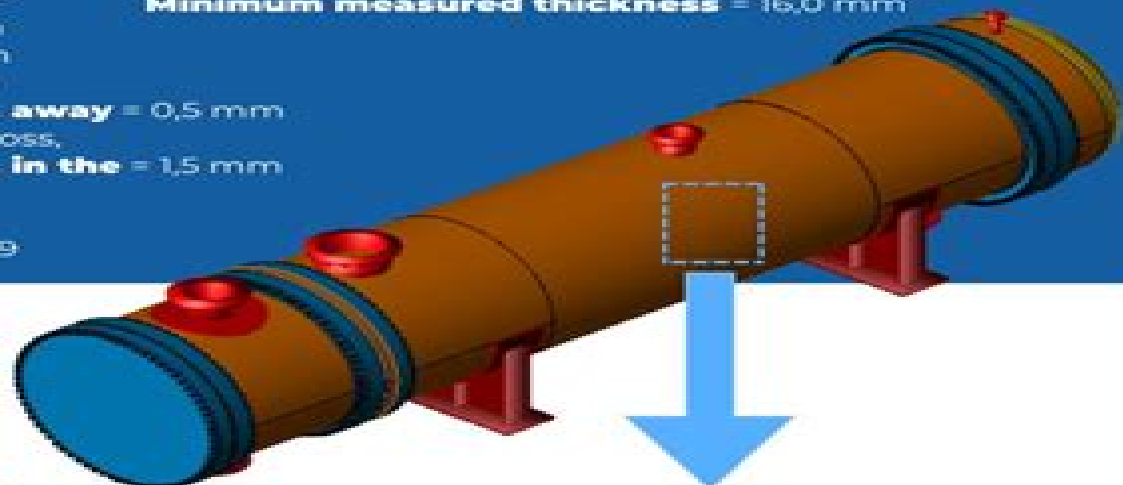
API-579 Extending Equipment Life Without Compromising Safety

General Data:

Material = SA-516 Gr.60
Design Pressure = 21,4 kg/cm²
Design Temperature = 340 °C
Internal Diameter = 2500 mm
Nominal Thickness = 32,0 mm
Uniform Metal Loss = 2,0 mm
Future Corrosion Allowance, away = 0,5 mm
from the region of local metal loss,
Future Corrosion Allowance, in the = 1,5 mm
region of local metal loss
Weld Joint Efficiency = 1,0
Design Code = ASME VIII-1 1989

Inspection Data:

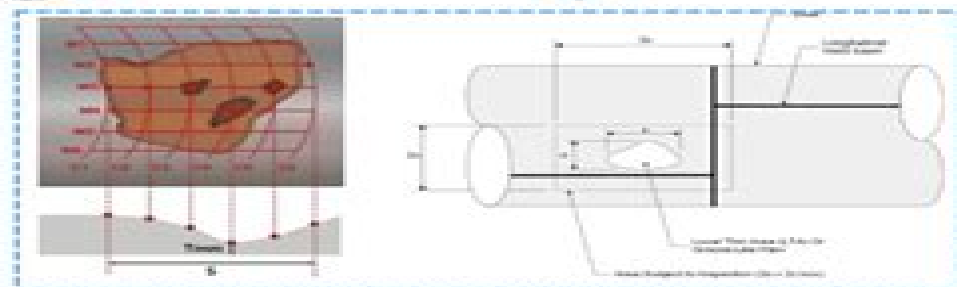
Longitudinal length local metal loss (s) = 300 mm
Circumferential length local metal loss (c) = 250 mm
Minimum measured thickness = 16,0 mm



ASME VIII DIV.1
(t = 32 mm)
MAWP = 26,4 kg/cm²

ASME VIII DIV.1
(t = 16 mm)
MAWP = 12,9 kg/cm²

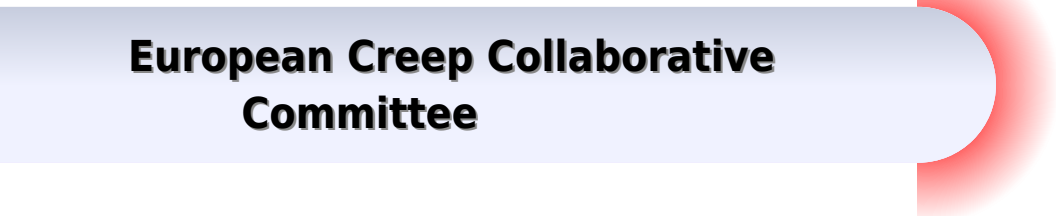
API-579, Level 1
(t=16mm)
MAWP = 21,2 kg/cm²



- ✓ Avoid costly replacements
- ✓ Maintain safety and compliance
- ✓ Support turnaround planning with fast Level 1 assessments
- ✓ Optimize asset life and performance

Api 579

**European Creep Collaborative
Committee**



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FITNESS for Service, 2007 **Creep and Fracture in High Temperature Components** European Creep Collaborative Committee, 2005. Provides information from around the world on creep in multiple high temperature metals, alloys, and advanced materials.

Mechanical Integrity and Risk-Based Inspection of Process Equipment, Piping and Pipelines Jorge Luis Gonzalez-Velazquez, 2024-07-15. This book explores Mechanical Integrity (MI) and Risk Based Inspection (RBI) methodologies specifically tailored for professionals in chemical, petrochemical, and petroleum refining plants. It starts with foundational aspects of equipment and pipe design and manufacturing within the process industry, followed by an introduction to prevalent damage mechanisms in metal components during service. The book then delves into the general methodology for mechanical integrity analysis, covering remaining life estimation and methods for assessing common defects found in in-service components. It further introduces the principles and overall methodology of Risk Based Inspection, detailing approaches for evaluating Probability of Failure and Consequences, along with the application of risk matrices to formulate Inspection Based Risk (IBR) plans. Lastly, it directs attention to the practical implementation of MI and IBR methodologies for managing the integrity of pipelines transporting liquid and gaseous hydrocarbons, aligned with API codes and ASME standards, offering a comprehensive example illustrating the development of an integrity management plan for a real-life pipeline. Through this structured approach, professionals can gain actionable strategies and insights essential for ensuring the safety and reliability of industrial plants and pipelines.

Handbook of Mechanical In-Service Inspection Clifford Matthews, 2003-12-30. This comprehensive sister volume to Cliff Matthews' highly successful Handbook of Mechanical Works Inspection gives a detailed coverage of pressure equipment and other mechanical plant such as cranes and rotating equipment. Key features: Accessible source of information. Lavishly illustrated with numerous diagrams, photographs, and tables. A wealth of valuable information. Detailed comprehensive coverage. Written in easily accessible style. A must-buy reference book. The Handbook of Mechanical In-Service Inspection is a

vital source of information for plant owners and operators maintenance engineers inspection engineers from insurance companies and competent bodies who perform in service inspection health and safety operatives engineers operating pressure systems and mechanical plant all those concerned with the safe and efficient operation of machinery plant and pressure equipment All engineering pressure systems and other types of mechanical equipment must be installed operated and maintained properly It must be safe and comply with standards regulations and guidelines In service inspection is more formally controlled by statutory requirements than other types of inspection The Handbook of Mechanical In service Inspection puts a good deal of emphasis on the compliance aspects and the duty of care requirements placed on plant owners operators and inspectors The book is suitable for those who operate pressure systems lifting equipment and similar mechanical plant are subject to rigorous inspection from external bodies as a matter of course All operators have a duty to conduct in service checks and internal inspection procedures to ensure the safe reliable and economic running of their equipment

Guidelines for Asset Integrity Management CCPS (Center for Chemical Process Safety),2017-01-06 This book is an update and expansion of topics covered in Guidelines for Mechanical Integrity Systems 2006 The new book is consistent with Risk Based Process Safety and Life Cycle approaches and includes details on failure modes and mechanisms Also example testing an inspection programs is included for various types of equipment and systems Guidance and examples are provided for selecting and maintaining critical safety systems

API 579-1 : Fitness-for -service API.,2007 [Advances in Reliability and Safety Assessment for Critical Systems](#) C. Senthil Kumar,R. Sujatha,R. Muthukumar,K. Balaji Rao,Raghu V. Prakash,Prabhakar V. Varde,2023-08-04 This book comprises select proceedings of the 5th National Conference on Reliability and Safety NCRS 2022 It provides comprehensive state of the art research and development in diverse areas like reliability prediction precursor event analysis fuzzy reliability structural reliability passive system reliability digital system reliability risk informed approach to decision making dynamic PSA uncertainty and sensitivity modeling among others The book is a valuable resource for researchers and professionals working in both academia and industry in the areas of complex systems safety critical systems and risk based engineering

Pressure Vessel related interview Questions and Answers Chetan Singh, This book has been specifically designed for aspiring engineers technicians and professionals who are seeking to pursue a career in the field of pressure vessel technology In this book you will find an extensive collection of the most commonly asked interview questions along with their answers The questions are designed to test your understanding of the fundamental concepts of pressure vessels and their applications The answers on the other hand provide a clear and concise explanation of the key aspects of pressure vessels I have drawn upon my years of experience in the industry and have shared my knowledge on the best approaches to handle different interview scenarios Overall this book is an indispensable resource for anyone looking to secure a position in the field of pressure vessel technology So if you want to ace your pressure vessel interview and take your career to the next level this book is a must read

[Process Plant](#)

Equipment Michael D. Holloway, Chikezie Nwaoha, Oliver A. Onyewuenyi, 2012-08-20 Process Plant Equipment Book is another great publication from Wiley as a reference book for final year students as well as those who will work or are working in chemical production plants and refinery Associate Prof Dr Ramli Mat Deputy Dean Academic Faculty of Chemical Engineering Universiti Teknologi Malaysia give s readers access to both fundamental information on process plant equipment and to practical ideas best practices and experiences of highly successful engineers from around the world The book is illustrated throughout with numerous black white photos and diagrams and also contains case studies demonstrating how actual process plants have implemented the tools and techniques discussed in the book An extensive list of references enables readers to explore each individual topic in greater depth Stainless Steel World and Valve World November 2012 Discover how to optimize process plant equipment from selection to operation to troubleshooting From energy to pharmaceuticals to food the world depends on processing plants to manufacture the products that enable people to survive and flourish With this book as their guide readers have the information and practical guidelines needed to select operate maintain control and troubleshoot process plant equipment so that it is efficient cost effective and reliable throughout its lifetime Following the authors careful explanations and instructions readers will find that they are better able to reduce downtime and unscheduled shutdowns streamline operations and maximize the service life of processing equipment Process Plant Equipment Operation Control and Reliability is divided into three sections Section One Process Equipment Operations covers such key equipment as valves pumps cooling towers conveyors and storage tanks Section Two Process Plant Reliability sets forth a variety of tested and proven tools and methods to assess and ensure the reliability and mechanical integrity of process equipment including failure analysis Fitness for Service assessment engineering economics for chemical processes and process component function and performance criteria Section Three Process Measurement Control and Modeling examines flow meters process control and process modeling and simulation Throughout the book numerous photos and diagrams illustrate the operation and control of key process equipment There are also case studies demonstrating how actual process plants have implemented the tools and techniques discussed in the book At the end of each chapter an extensive list of references enables readers to explore each individual topic in greater depth In summary this text offers students process engineers and plant managers the expertise and technical support needed to streamline and optimize the operation of process plant equipment from its initial selection to operations to troubleshooting

The book delves into Api 579. Api 579 is an essential topic that needs to be grasped by everyone, ranging from students and scholars to the general public. The book will furnish comprehensive and in-depth insights into Api 579, encompassing both the fundamentals and more intricate discussions.

1. This book is structured into several chapters, namely:

- Chapter 1: Introduction to Api 579
- Chapter 2: Essential Elements of Api 579
- Chapter 3: Api 579 in Everyday Life
- Chapter 4: Api 579 in Specific Contexts
- Chapter 5: Conclusion

2. In chapter 1, this book will provide an overview of Api 579. This chapter will explore what Api 579 is, why Api 579 is vital, and how to effectively learn about Api 579.
3. In chapter 2, the author will delve into the foundational concepts of Api 579. The second chapter will elucidate the essential principles that must be understood to grasp Api 579 in its entirety.
4. In chapter 3, this book will examine the practical applications of Api 579 in daily life. This chapter will showcase real-world examples of how Api 579 can be effectively utilized in everyday scenarios.
5. In chapter 4, the author will scrutinize the relevance of Api 579 in specific contexts. The fourth chapter will explore how Api 579 is applied in specialized fields, such as education, business, and technology.
6. In chapter 5, the author will draw a conclusion about Api 579. The final chapter will summarize the key points that have been discussed throughout the book.

The book is crafted in an easy-to-understand language and is complemented by engaging illustrations. It is highly recommended for anyone seeking to gain a comprehensive understanding of Api 579.

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the objectives of the boiling point determination lab were to determine the boiling point of a mystery substance provided to each student boiling point is the point at which a liquid changes physical states and becomes a vapor or gas boiling point is important to understand because it can be used to help distinguish between different substances

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the boiling point of an organic liquid is the temperature at which its vapour pressure equals the atmospheric pressure over the liquid or it is the temperature at which the vapour and liquid phases are in equilibrium at agiven pressure the boiling point is considered as a criterion of purity of a compound and is useful for identification of

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given that the boiling points of ethanol and methanol 78 c and 64 c respectively are far off in a significant way this seems like a valid conclusion conclusion thermometer calibrations are necessary in order to collect reliable information as precise calculations are imperative to gathering correct results

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melting point 1 a push the open end of a capillary tube into the powdered acetamide b move the powder to the closed end of the capillary tube by tapping it on the table repeat until the the powdered acetamide occupies 1 2 mm of the capillary tube end c

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boiling point determination lab report conclusion objective to correctly measure boiling issues of various liquids and identify an unknown liquid based on its boiling point background information objects can be distinguished into acid properties and physical properties

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discussion and conclusion the technique recrystallization was used because it is a simple method to purify a solid compound the percentage yield for benzoic acid and acetanilide acid being high indicated the initial sample had a low concentration of impurities with the melting point being in a specific

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introduction in this lab we will be using boiling points melting points and infrared spectrometry to identify unknown compounds boiling points are affected by three key factors the first being intermolecular forces inter molecular affect boiling point based on bond strength

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determination of boiling points introduction the boiling point of a compound is the temperature at which it changes from a liquid to a gas this is a physical property often used to identify substances or to check the purity of the compound it

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clean up solid and liquid spills immediately true conclusions after conducting the boiling point determination lab it can be concluded that the unknown substance 193 is isopropyl alcohol on account of its observed boiling point of 88 c

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conclusion after completing this experiment the melting point of three different unknown compounds was obtained using the melting point apparatus compound a had a melting point range of 114.6-115.5 c thus revealing it to be acetanilide compound b had a melting point range of 122.6-124.5 c thus

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nov 27 2019 essay sample the purpose of this experiment is to determine the boiling points of various organic compounds and to use these to identify unknowns equipment free essays

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melting point can be used as the identity and purity of an organic solid however it is not the same as the boiling point the boiling point is a characteristic unique of pure liquids the boiling point is the temperature at which the vapor pressure of a liquid is equal to the atmospheric pressure

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aug 11 2020 boiling points are very sensitive to changes in applied pressure so all boiling points should be reported with the

measured pressure a compound's normal boiling point refers to its boiling point at a pressure of 760 mm Hg

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the purpose of the experiment is to understand what vapour pressure is and how it changes with temperature to understand the relationship between vapour pressure at a given temperature and boiling temperature at a given pressure to determine the vapour pressure of a pure liquid at various temperatures

exploring boiling points sharmin khatun chem 1141 studocu - May 17 2023

exploring boiling points abstract in this experiment we are given a set of straight chain alkanes and a set of compounds to compare by following the trendline of the straight chain alkanes it could be concluded that as the molar mass of the straight chain alkanes increases their boiling points increase as well

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laboratory partners samantha and mackenzie goals ☐ correctly determine the boiling point of an unknown liquid ☐ measure the refractive index of an unknown ☐ use the gas chromatogram to determine the mass percentage of a mixture and

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50 °C so in order to convert an experimental measurement taken in Calgary which is at higher altitude than sea level and so is at a lower pressure to that reported for sea level higher pressure one needs to add a correction factor since the boiling point at sea level is higher than that at higher altitudes

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introduction in chemistry one may encounter an unknown substance that needs to be determined by physical properties such as boiling point melting point density solubility etc in this experiment I aim to figure out the boiling point of a mystery substance in order to identify it chemical responsibility this experiment requires the handling of a Bunsen burner boiling

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there are a variety of methods by which a sample's boiling point can be determined including distillation reflux and by using a Thiele tube the most straightforward method uses a Thiele tube and has the advantage of using less than 0.5 ml of material

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