



### Design Feature

- ANSI B16.34 Class 900 Design
- 2 Pieces Body Design
- Full Bore
- 1/2" - 3" ( DN15 - DN80 )
- Blow-Out-Proof Stem Design
- Anti-Static Device
- Handle with Locking Device
- ISO 5211 Direct Mounting Flange
- End Connection : Threaded End
- Seal Welding Body Design

Body	ASTM A351 Gr.CF8M (1.4408)
Ball / Stem	CF8M / SS316
Seat	RTFE. (15% glass fiber filled)
Working Pressure	2000PSI ( PN140 )
Temperature Range	-4 to 356 °F ( -20 to 180 °C )

# Iso 10497 Vs Api 607

**Karan Sotoodeh**



## **Iso 10497 Vs Api 607:**

**A Practical Guide to Piping and Valves for the Oil and Gas Industry** Karan Sotoodeh, 2021-01-12 A Practical Guide to Piping and Valves for the Oil and Gas Industry covers how to select test and maintain the right oil and gas valve Each chapter focuses on a specific type of valve with a built in structured table on valve selection Covering both onshore and offshore projects the book also gives an introduction to the most common types of corrosion in the oil and gas industry including CO<sub>2</sub> H<sub>2</sub>S pitting crevice and more A model to evaluate CO<sub>2</sub> corrosion rate on carbon steel piping is introduced along with discussions on bulk piping components including fittings gaskets piping and flanges Rounding out with chapters devoted to valve preservation to protect against harmful environments and factory acceptance testing this book gives engineers and managers a much needed tool to better understand today's valve technology Presents oil and gas examples and challenges relating to valves including many illustrations from valves in different stages of projects Helps readers understand valve materials testing actuation packing and preservation also including a new model to evaluate CO<sub>2</sub> corrosion rates on carbon steel piping Presents structured valve selection tables in each chapter to help readers pick the right valve for the right project Analysis of Bolted Joints, 1999 **Analysis of Bolted Joints 1999** K. H. Hsu, Toshiyuki Sawa, 1999 The 20 papers were presented at the August 1999 conference in four technical sessions gasket characteristics and testing for bolted joints bolted joint design relating the proposed ASME code and European EN 1591 design tubes bolted joints analysis using finite element analysis and bolted joint g The Comprehensive Valve Dictionary Karan Sotoodeh, 2025-09-10 This book is a pioneering reference work designed to address the complex terminology technical specifications and diverse applications of valves in industrial systems The Comprehensive Valve Dictionary is an authoritative and practical reference that demystifies the technical language surrounding industrial valves The dictionary provides detailed definitions of over a thousand valve related terms including valve types components materials standards testing methods and failure mechanisms In addition to traditional applications this dictionary places significant emphasis on valves used in renewable energy systems including those for hydrogen production hydropower carbon capture and storage CCS geothermal energy and wind power Moreover it explores the definitions and real world applications of cutting edge technologies such as smart valves condition monitoring digital twin technology and additive manufacturing It also includes cross references to relevant international standards e.g. API ASME ISO troubleshooting guides and operational insights By bridging gaps in understanding this resource will support professionals in making informed decisions improving system reliability and ensuring compliance with industry best practices This work is specifically tailored for engineers designers manufacturers and researchers working in oil and gas petrochemicals power generation and renewable energy industries Pipeline Valve Technology Karan Sotoodeh, 2022-12-21 The e book version of the book Pipeline Valve Technology complements the other versions of the book The e book version provides the user with additional questions and answers at the end of each chapter to gauge and enhance

the user's understanding. The book covers the life cycle of pipeline valves: the largest and most essential valves in offshore pipeline engineering. Discussing the design process, testing, production, transportation, installation, and maintenance, the book also covers the risk analysis required to assess the reliability of these valves. Pipeline valves require particular attention to ensure they are safely designed, installed, and maintained due to the high stakes. Failure would result in environmental pollution, the destruction of expensive assets, and potential loss of life. Proper installation and upkeep require specialist processes throughout the life cycle of the valve. This book is a key guide to these processes. Beginning by looking at the design of pipeline valves, this book details how conserving weight and space is prioritized, how materials are chosen, how thickness is calculated, and how leakage is minimized. It then discusses production and specific welding techniques to bond dissimilar materials alongside casting and machining. Building on other discussions in the text with case studies and questions and answers for self-study, this book is the ideal guide to pipeline valves. This book will be of interest to professionals in the industries of offshore oil and gas, material engineering, coatings, mechanical engineering, and piping. It will also be relevant to students studying coating and welding or mechanical piping or petroleum engineering.

**Handbook of Valves and Actuators** Brian Nesbitt, 2011-04-19 Industries that use pumps, seals, and pipes will also use valves and actuators in their systems. This key reference provides anyone who designs, uses, specifies, or maintains valves and valve systems with all of the critical design, specification, performance, and operational information they need for the job in hand. Brian Nesbitt is a well-known consultant with a considerable publishing record. A lifetime of experience backs up the huge amount of practical detail in this volume. Valves and actuators are widely used across industry, and this dedicated reference provides all the information plant designers, specifiers, or those involved with maintenance require. Practical approach backed up with technical detail and engineering know-how makes this the ideal single volume reference. Compares and contrasts valve and actuator types to ensure the right equipment is chosen for the right application and properly maintained.

**Cryogenic Valves for Liquefied Natural Gas Plants** Karan Sotoodeh, 2022-05-18 Natural gas and liquefied natural gas (LNG) continue to grow as a part of the sustainable energy mix. While oil and gas companies look to lower emissions, one key refinery component that contributes up to 60% of emissions are valves, mainly due to poor design, sealing, and testing. **Cryogenic Valves for Liquefied Natural Gas Plants** delivers a much-needed reference that focuses on the design, testing, maintenance, material selection, and standards needed to stay environmentally compliant at natural gas refineries. Covering technical definitions, case studies, and Q & A, the reference includes all ranges of natural gas compounds including LPG, CNG, NGL, and PNG. Key design considerations are included that are specific for cryogenic services, including a case study on cryogenic butterfly valves. The material selection process can be more complex for cryogenic services, so the author goes into more detail about materials that adhere to cryogenic temperature resistance. Most importantly, testing of valves is covered in depth, including shell test, closure or seat test, and thermal shock tests, along with tactics on how to prevent dangerous cryogenic

leaks which are very harmful to the environment The book is a vital resource for today s natural gas engineers Teaches LNG valve design including sealing selection wall thickness calculation of the valve body and bonnet and proper material selection Provides tactics on how to prevent cryogenic leaks with compliant valve testing Applies natural gas calculations that will better support the LNG supply chain Enables readers to understand cryogenic valve standards including EN ISO and MSS SP

**Case Studies of Material Corrosion Prevention for Oil and Gas Valves** Karan Sotoodeh,2022-06-07 Case Studies of Material Corrosion Prevention for Oil and Gas Valves delivers a critical reference for engineers and corrosion researchers Packed with nearly 30 real world case studies this reference gives engineers standardized knowledge on how to maintain select and prevent typical corrosion problems in a variety of oil and gas settings Subsea offshore refineries and processing plants are all included covering a variety of challenges such as chloride stress cracking how to use Teflon powder to prevent cross contamination and carbon dioxide corrosion Organized for quick discovery this book gives engineers a much needed tool to safely protect their assets and the environment Engineers working in oil and gas operations understand that corrosion is a costly expense that increases emissions and damages the environment but many standards do not provide practical examples with solutions leaving engineers to learn through experience This resource provides comprehensive information on topics of interest Provides solutions to common oil and gas corrosion valve failures with standard case studies Helps readers improve safety and reliability with the addition of references for further training Presents tactics on how to reduce environmental impact and use methods to prevent corrosion across offshore subsea and refinery activities Handbook of Engineering Practice of Materials and Corrosion Jung-Chul (Thomas) Eun,2020-09-04 This handbook is an in depth guide to the practical aspects of materials and corrosion engineering in the energy and chemical industries The book covers materials corrosion welding heat treatment coating test and inspection and mechanical design and integrity A central focus is placed on industrial requirements including codes standards regulations and specifications that practicing material and corrosion engineers and technicians face in all roles and in all areas of responsibility The comprehensive resource provides expert guidance on general corrosion mechanisms and recommends materials for the control and prevention of corrosion damage and offers readers industry tested best practices rationales and case studies **Chemical Engineering Progress** ,2007

**Supplements to the National Fire Codes** ,2008 A compilation of NFPA codes standards recommended practices and manuals amended or adopted by NFPA at the annual meeting **OIL & GAS JOURNAL INTERNATIONAL PETROLEUM NEWS AND TECHNOLOGY** ,1993 **Design News** , **Chemical Engineering** ,2007 *ISO 10497 Testing of Valves, Fire Type-testing Requirements* Organización Internacional de Normalización,1992 **BS EN ISO 10497 : Testing of valves - fire type-testing requirements** BSI. British Standards Institution,2004

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