

Date of Issue: March 2025

Affected Publication: API Standard 620, Design and Construction of Large, Welded, Low-pressure Storage Tanks, 12th Edition, October 2103

Errata 1

Annex R, Table R-2, footnote g): The table cell shall be changed as indicated by the highlighting:

Table R-2—Minimum Charpy V-notch Impact^a Requirements for Product Temperature Material Plate Specimens (Transverse) and Weld Specimens Including the Heat-affected Zone

Specification Number	Grade/Class	Range in Thickness (in.)	Plate Impact Value ^b (F-B)		Weld Impact Value (F-B)	
			Average	Individual	Average	Individual
ASTM A516	55 and 60	3/16 to 2.50	25	20	20	15
ASTM A516	65 and 70	3/16 to 2.50	25	20	20	15
EN 10028	P275 Qualities NH, NL1, and NL2	3/16 to 2.50	25	20	20	15
ASTM A662	B	3/16 to 2.50	25	20	20	15
CSA-G40.21	36WT ^{c,d}	3/16 to 2.50	25	20	20	15
ASTM A537	Class 1	3/16 to 2.50	25	20	20	15
ASTM A541 ^f	Class 1 (Grades A and B)	3/16 to 2.50	25	20	20	15
ASTM A737	B	3/16 to 2.50	25	20	20	15
ISO 630	S355 Quality D ^{e,g}	3/16 to 2.50	25	20	20	15
ASTM A662	C	3/16 to 2.50	25	20	20	15
EN 10028	P355 Qualities N, NH1, NL1, and NL2	3/16 to 2.50	25	20	20	15
CSA-G40.21	46WT ^{c,d}	3/16 to 2.50	25	20	20	15
CSA-G40.21	50WT ^{c,d}	3/16 to 2.50	25	20	20	15
ASTM A537 ^e	Class 2	3/16 to 2.00 ^h	30	25	25	20
ASTM A541 ^f	Class 2 (Grades A and B)	3/16 to 2.00 ^h	30	25	25	20

^a See R 2.2.3.

^b For design metal temperatures of -40 °F and lower, the plate impact values shall be raised 5 F-B.

^c The frequencies of testing for mechanical and chemical properties shall be at least equal to those of ASTM A20.

^d See 4.2.3 for a complete description of this material.

^e The steel shall be fully killed and made with fine-grain practice.

^f See Section 4.2.6.1.

^g For the materials associated with this footnote, thicknesses greater than 2.00 inches up to 2.50 inches are permitted if both the plate and weld impact values are raised **By** 10 F-B. This is in addition to any increase due to footnote b.

Api 620 12th Edition

DP Hallahan



Api 620 12th Edition:

Design and Construction of LNG Storage Tanks Josef Rötzer, 2019-11-12 Worldwide the use of natural gas as a primary energy source will remain vital for decades to come This applies to industrialized emerging countries and developing countries Owing to the low level of impurities natural gas is considered to be a climate friendly fossil fuel because of the low CO2 emissions but is at the same time an affordable source of energy In order to enable transport over long distances and oceans and hence create an economic and political alternative to pipelines the gas is liquefied which is accompanied by a considerable reduction in volume and then transported by ship Thus at international ports many LNG tanks are required for temporary storage and further use The trend towards smaller liquefaction and regasification plants with associated storage tanks for marine fuel applications has attracted new players in this market who often do not yet have the necessary experience and technical expertise It is not sufficient to refer to all existing technical standards when defining consistent state of the art specifications and requirements The switch to European standardisation has made it necessary to revise and adapt existing national codes to match European standards Technical committees at national and international level have begun their work of updating and completing the EN 14620 series In the USA too the corresponding regulations are also being updated The revision of American Concrete Institute standard ACI 376 Requirements for Design and Construction of Concrete Structures for the Containment of Refrigerated Liquefied Gases first published in 2011 will be completed in the spring of 2019 and the final version published in autumn 2019 This book provides an overview of the state of the art in the design and construction of liquefied natural gas LNG tanks Since the topic is very extensive and complex an introduction to all aspects is provided e g requirements and design for operating conditions thermal design hydrostatic and pneumatic tests soil surveys and permissible settlement modelling of and calculations for the concrete structure and the actions due to fire explosion and impact Dynamic analysis and the theory of sloshing liquid are also presented

Pipeline Rules of Thumb Handbook M.J. Kaiser, E.W. McAllister, 2022-09-02 Pipeline Rules of Thumb Handbook A Manual of Quick Accurate Solutions to Everyday Pipeline Engineering Problems Ninth Edition the latest release in the series serves as the go to source for all pipeline engineering answers Updated with new data graphs and chapters devoted to economics and the environment this new edition delivers on new topics including emissions decommissioning cost curves and more while still maintaining the quick answer standard display of content and data that engineers have utilized throughout their careers Glossaries are added per chapter for better learning tactics along with additional storage tank and LNG fundamentals This book continues to be the high quality classic reference to help pipeline engineers solve their day to day problems Contains new chapters that highlight costs safety and environmental topics including discussions on emissions Helps readers learn terminology with updated glossaries in every chapter Includes renovated graphs and data tables throughout

[Storage Tanks Selection, Design, Testing, Inspection, and Maintenance: Emission Management and Environmental Protection](#) Karan

Sotoodeh,2024-01-09 Emission prevention and environmental protection are hot topics in the oil and gas industry and many countries especially in the United States Among sources of pollution in the oil and gas industry storage tanks used to store products such as oil or liquefied natural gas LNG are considered the second most significant source of emissions after industrial valves Storage Tanks Selection Design Testing Inspection and Maintenance Emission Management and Environmental Protection provides the latest research and technological advancements in storage tank design including materials selection welding and techniques used order to reduce or prevent emissions This book will detail essential information regarding inspections testing and maintenance that are performed to prevent the failure of storage tanks and will also explore the different types of storage tank emissions and provide recommendations for the preventive as well as safety systems that are critical to minimize the failure of storage tanks Researchers engineers industry professionals and students in the environmental safety field will find this book to be a welcomed resource to learning about and working on storage tank emissions in the oil and gas industries Provides detailed understanding of the problems and hazards of emission in the oil and gas industries Presents mechanical designs of storage tanks by considering various loads e g axial bending wind earthquake etc to prevent failure Details studies of corrosion assessment of storage tanks Introduces safety systems in the oil and gas industries and the effect of tank selection on emission **Permit Writer's Training Manual** ,1989 **API Standards 620, 650, and 653 Interpretations--tank Construction and In-service Inspection** ,1997 **Acceptance of post-tensioning systems for cryogenic applications** FIB - International Federation for Structural Concrete,2021-04-01 Since the Second World War the demand of energy has undergone an exponential growth that has led to a sharp annual increase in the use of natural gas in both cities and thermal power stations Nowadays the strategic relevance of natural gas as a main source of energy is evident with a contribution of more than 20% of the total world consumption This development in increasing demand of natural gas has led for a need of suitable storage and transportation infrastructure Various gases especially hydrocarbons are preferably stored in liquid form for transportation and storage since the phase transformation from gas to liquid comes with a significant reduction of the volume e g up to 600 times Gases can be liquefied by raising the pressure or by cooling to their boiling point which for most gases is below 0 C This is known as cryogenic storage The term cryogenic is derived from two Greek words namely kryos meaning icy cold and genes which can be translated as shape These fib recommendations are concerned about post tensioning systems used in cryogenic tanks and have been formulated on the basis of actual available knowledge with the aim to reflect the current state of the art Consequently these recommendations have included a classification of the different cryogenic tanks typologies used in the past and nowadays the associated different tendon types depending on their exposure to low temperature e g never only accidentally or during normal tank operation and the testing regime required for acceptance of the materials and the post tensioning system according to this document An international working group comprising more than 20 experts from administrative authorities universities

laboratories owners structural designers suppliers of prestressing steels and post tensioning systems suppliers have actively contributed in order to develop these recommendations This text has been written to cover best construction practices around the world and to provide material specifications which are considered to be the most advanced available at the time of preparing this text For ease of use for Owner Designer and Post tensioning System Supplier the content has been arranged systematically according to the system components into chapters focusing on performance characteristics requirements and acceptance criteria

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

Petroleum Engineering Handbook Howard B. Bradley,Fred W. Gipson,1987

Chemical Process Safety Daniel A. Crowl,Joseph F. Louvar,2019-03-01 The 1 Process Safety Guide Now Extensively Updated for Current Industrial Processes Systems and Practices Process safety has seen a dramatic consolidation of concepts in the past few years Chemical Process Safety Fourth Edition provides students and working engineers with the understanding necessary to apply these new concepts to safely design and operate any process Long the definitive guide in the field this edition fully reflects major recent advances in process safety technology and practice Readers will find extensive new and updated coverage of relief sizing hazards identification risk assessment and many other topics Several chapters have been completely rewritten and all are substantially modified This textbook includes 50 new problems and solutions mostly in SI units and 25 new case histories Safety culture Preventive and mitigative safeguards The CCPS 20 elements of Risk Based Process Safety RBPS Toxicology industrial hygiene and source models Hazardous material dispersion Fires explosions and concepts for preventing them Chemical reactivity Reliefs and relief sizing Hazards identification and

evaluation Risk analysis and assessment including Layer of Protection Analysis LOPA Safety strategies procedures designs case histories and lessons learned Crowl and Louvar link key academic concepts to modern industrial practice making this guide invaluable for all engineering students and for all working engineers Register your product for convenient access to downloads updates and or corrections as they become available See inside book for details **Technical Resource**

Document for the Storage and Treatment of Hazardous Waste in Tank Systems ,1986 **Indiana Register** ,1991
Indiana Administrative Code ,1996 Code of Federal Regulations, Title 49, Transportation, PT. 178-199, Revised as of October 1, 2015 U S Office of the Federal Register,2016-01-29 The Code of Federal Regulations is a codification of the general and permanent rules published in the Federal Register by the Executive departments and agencies of the United States Federal Government This print ISBN is the official U S Federal Government edition 49 CFR Parts 170 to 199 continues coverage on the Pipeline and Hazardous Materials Safety Administration within the United States Department of Transportation In this volume you will find processes procedures rules and regulations relating to specifications for packaging specification for tank cars transportation of natural or other gas reports including safety related conditions and incident reports federal safety standards response plans for on shore pipeline plans transportation of hazardous liquid by pipeline regulations for grants to aid states pipeline safety programs and more Truck tank drivers railroad and maritime operators and highway safety patrols plus members of the Intermodal Association of North America and United Association of Pipeliners may be interested in this volume Environmentalists especially environmental scientists and students pursuing coursework in environmental science may find this regulatory volume an asset to research and Federal standards Other related products Emergency Response Guidebook 2012 ERG 2012 can be found here <https://bookstore.gpo.gov/products/sku/05000005968> Unlimited Impossibilities Intelligence Support to the Deepwater Horizon Response can be found here <https://bookstore.gpo.gov/products/sku/008020016349> National Traffic Incident Management Responder Training Program Train the Trainer Guide can be found here <https://bookstore.gpo.gov/products/sku/050001003473> ctid 199 Keywords 49 CFR Parts 178 199 CFR 49 Parts 178 199 cfr 49 parts 178 199 united states department of transportation dot u s department of transportation dept of transportation transportation dept pipeline and hazardous materials safety transportation safety gas hazardous liquids grants state processes CBR oil and oil spills Federal safety standards pipeline safety Mekeel's Weekly Stamp News I. A. Mekeel,Charles Esterly Severn,Stephen B. Hopkins,1925 *Consideration of Report to the Board on the Problems of Underground Tank Leaks in the Los Angeles Region* ,1983 **Cryogenic Technology** ,1968 Publications, Programs & Services American Petroleum Institute,2005 **Ulrich's Update** ,1989 **Ulrich's International Periodicals Directory** ,1998 *The Commercial and Financial Chronicle* ,1911

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