

Bolt Chart ASME B16.5

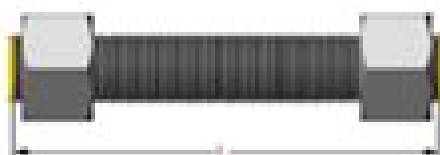
ASME B16.5 Flanges 150 - 600 lb

| Nominal Pipe Size | | | 1/2 | 3/4 | 1 | 1 1/4 | 1 1/2 | 2 | 2 1/2 | 3 | 3 1/2 | 4 | 5 | 6 | 8 | 10 | 12 | 14 | 16 | 18 | 20 | 24 |
|-------------------|--|---------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|--------|-------|
| 150 LB. Flanges | Stud Diameter Stud Length # of Studs | 1/16 RF | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 5/8 | 5/8 | 5/8 | 5/8 | 5/8 | 3/4 | 3/4 | 3/4 | 7/8 | 7/8 | 1 | 1 | 1 1/8 | 1 1/8 | 1 1/4 |
| | | | 2 1/4 | 2 1/2 | 2 1/2 | 2 3/4 | 2 3/4 | 3 1/4 | 3 1/2 | 3 1/2 | 3 1/2 | 3 1/2 | 3 3/4 | 4 | 4 1/4 | 4 1/2 | 4 3/4 | 5 1/4 | 5 1/4 | 5 3/4 | 6 1/4 | 6 3/4 |
| | | | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 8 | 8 | 8 | 8 | 8 | 12 | 12 | 12 | 16 | 16 | 20 | 20 |
| 300 LB. Flanges | Stud Diameter Stud Length # of Studs | 1/16 RF | 1/2 | 5/8 | 5/8 | 5/8 | 3/4 | 5/8 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 7/8 | 1 | 1 1/8 | 1 1/8 | 1 1/4 | 1 1/4 | 1 1/4 | 1 1/2 |
| | | | 2 1/2 | 3 | 3 | 3 1/4 | 3 1/2 | 3 1/2 | 4 | 4 1/4 | 4 1/4 | 4 1/2 | 4 3/4 | 4 3/4 | 5 1/2 | 6 1/4 | 6 3/4 | 7 | 7 1/2 | 7 3/4 | 8 | 9 |
| | | | 4 | 4 | 4 | 4 | 4 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 12 | 12 | 16 | 16 | 20 | 20 | 24 | 24 |
| 600 LB. Flanges | Stud Diameter Stud Length # of Studs | 1/4 RF | 1/2 | 5/8 | 5/8 | 5/8 | 3/4 | 5/8 | 3/4 | 3/4 | 7/8 | 7/8 | 1 | 1 | 1 1/8 | 1 1/4 | 1 1/4 | 1 3/8 | 1 1/2 | 1 5/8 | 1 5/8 | 1 7/8 |
| | | | 3 | 3 1/2 | 3 1/2 | 3 3/4 | 4 1/4 | 4 1/4 | 4 3/4 | 5 | 5 1/2 | 5 3/4 | 6 1/2 | 6 3/4 | 7 1/2 | 8 1/2 | 8 3/4 | 9 1/4 | 10 | 10 3/4 | 11 1/4 | 13 |
| | | | 4 | 4 | 4 | 4 | 4 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 12 | 12 | 16 | 20 | 20 | 20 | 24 | 24 |

ASME B16.5 Flanges 900 - 2500 lb

| Nominal Pipe Size | | | 1/2 | 3/4 | 1 | 1 1/4 | 1 1/2 | 2 | 2 1/2 | 3 | - | 4 | 5 | 6 | 8 | 10 | 12 | 14 | 16 | 18 | 20 | 24 |
|-------------------|--|--------|-------|-------|-------|-------|-------|-------|-------|-------|---|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 900 LB. Flanges | Stud Diameter Stud Length # of Studs | 1/4 RF | 3/4 | 3/4 | 7/8 | 7/8 | 1 | 7/8 | 1 | 7/8 | - | 1 1/8 | 1 1/4 | 1 1/8 | 1 3/8 | 1 3/8 | 1 3/8 | 1 1/2 | 1 5/8 | 1 7/8 | 2 | 2 1/2 |
| | | | 4 1/4 | 4 1/2 | 5 | 5 | 5 1/2 | 5 3/4 | 6 1/4 | 5 3/4 | - | 6 3/4 | 7 1/2 | 7 1/2 | 8 3/4 | 9 1/4 | 10 | 10 3/4 | 11 1/4 | 12 3/4 | 13 3/4 | 17 1/4 |
| | | | 4 | 4 | 4 | 4 | 4 | 8 | 8 | 8 | - | 8 | 8 | 12 | 12 | 16 | 20 | 20 | 20 | 20 | 20 | 20 |
| 1500 LB. Flanges | Stud Diameter Stud Length # of Studs | 1/4 RF | 3/4 | 3/4 | 7/8 | 7/8 | 1 | 7/8 | 1 | 1 1/8 | - | 1 1/4 | 1 1/2 | 1 3/8 | 1 5/8 | 1 7/8 | 2 | 2 1/4 | 2 1/2 | 2 3/4 | 3 | 3 1/2 |
| | | | 4 1/4 | 4 1/2 | 5 | 5 | 5 1/2 | 5 3/4 | 6 1/4 | 7 | - | 7 3/4 | 9 1/4 | 10 1/4 | 11 1/2 | 13 1/4 | 14 3/4 | 16 | 17 1/2 | 19 1/2 | 21 1/4 | 24 1/4 |
| | | | 4 | 4 | 4 | 4 | 4 | 8 | 8 | 8 | - | 8 | 8 | 12 | 12 | 12 | 16 | 16 | 16 | 16 | 16 | 16 |
| 2500 LB. Flanges | Stud Diameter Stud Length # of Studs | 1/4 RF | 3/4 | 3/4 | 7/8 | 1 | 1 1/8 | 1 | 1 1/8 | 1 1/4 | - | 1 1/2 | 1 3/4 | 2 | 2 | 2 1/2 | 2 3/4 | - | - | - | - | - |
| | | | 4 3/4 | 5 | 5 1/2 | 6 | 6 3/4 | 7 | 7 3/4 | 8 3/4 | - | 10 | 11 3/4 | 13 1/2 | 15 | 16 1/4 | 21 1/4 | - | - | - | - | - |
| | | | 4 | 4 | 4 | 4 | 4 | 8 | 8 | 8 | - | 8 | 8 | 8 | 12 | 12 | 12 | - | - | - | - | - |

The length L does not include the height of end joints or chamfers. An end joint is defined as an unthreaded length, chamfer or bevel, which extends beyond the thread. The bolt lengths are reference dimensions. Users may select other bolting lengths.



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Frp Flanges Bolting Guide

Hong Hao, Chunwei Zhang



Frp Flanges Bolting Guide:

Thermoset FRP Duct Construction Manual ,1997 **Design and Installation Manual for Thermal Energy Storage** ,1979 **FRP Composite Structures** Hota V.S. GangaRao,Woraphot Prachasaree,2021-10-27 The use of fiber reinforced polymer FRP composites in infrastructure systems has grown considerably in recent years because of the durability of composite materials New constituent materials manufacturing techniques design approaches and construction methods are being developed and introduced in practice by the FRP composites community to cost effectively build FRP structural systems FRP Composite Structures Theory Fundamentals and Design brings clarity to the analysis and design of these FRP composite structural systems to advance the field implementation of structural systems with enhanced durability and reduced maintenance costs It develops simplified mathematical models representing the behavior of beams and plates under static loads after introducing generalized Hooke s Law for materials with anisotropic orthotropic transversely isotropic and isotropic properties Subsequently the simplified models coupled with design methods including FRP composite material degradation factors are introduced by solving a wide range of practical design problems This book Explores practical and novel infrastructure designs and implementations Uses contemporary codes recently approved Includes FRP case studies from around the world Ensures readers fully understand the basic mechanics of composite materials before involving large scale number crunching Details several advanced topics including aging of FRPs typical failures of structures including joints and design simplifications without loss of accuracy and emphasis on failure modes Features end of chapter problems and solved examples throughout This textbook is aimed at advanced undergraduate and graduate students and industry professionals focused on the analysis and design of FRP composite structural members It features PowerPoint lecture slides and a solutions manual for adopting professors **Handbook of Structural Engineering** W.F. Chen,E.M. Lui,2005-02-28 Continuing the best selling tradition of the Handbook of Structural Engineering this second edition is a comprehensive reference to the broad spectrum of structural engineering encapsulating the theoretical practical and computational aspects of the field The contributors cover traditional and innovative approaches to analysis design and rehabilitation New topics include fundamental theories of structural dynamics advanced analysis wind and earthquake resistant design design of prestressed structures high performance steel concrete and fiber reinforced polymers semirigid frame structures structural bracing and structural design for fire safety **Fiberglass Reinforced Plastics** Nicholas P. Cheremisinoff,Paul N. Cheremisinoff,1995-12-31 This book has been prepared as a reference on manufacturing techniques and applications of fiberglass reinforced plastics It provides discussion of properties concepts and is written for the potential user to summarize advantages in usage The book contains nine chapters of discussion of relationships between polymers reinforcements and uses as well as a useful glossary of plastics and engineering terms There is a wide interest in fiberglass reinforced plastics due to useful properties which meet a great many product and use requirements as well as the relative ease with which such

products can be fabricated Fiberglass reinforced plastics find applications in transportation marine construction electronics recreation aircraft aerospace and numerous manufacturing industries These plastics have virtually displaced wood in the marine industry and applications replacing metals in other areas continue to grow The user of this book will find practical and useful information for design engineering plant and maintenance Presented is the technology and applications to serve the varied interests of readers in diverse industries

Futures in Mechanics of Structures and Materials Thiru Aravinthan, Wana (Karu) Karunasena, Hao Wang, 2008-11-20 Futures in Mechanics of Structures and Materials is a collection of peer reviewed papers presented at the 20th Australasian Conference on the Mechanics of Structures and Materials ACMSM20 University of Southern Queensland Toowoomba Queensland Australia 2 5 December 2008 by academics researchers and practicing engineers mainly from Austral

Companion Guide to the ASME Boiler & Pressure Vessel Code K. R. Rao, 2002 This comprehensive new guide available in two volumes addresses Sections I through XI of the ASME Boiler and Pressure Vessel Code and Codes B31 1 and B31 3 for Pressure Piping Contributors also provide examples and explanatory text graphics references and annotated bibliographic notes As a result engineers can immediately refer to the material requirements to find acceptance criteria Its indepth treatment of each of the Code sections makes this the definitive companion book to the ASME Boiler and Pressure Vessel Code Volume 1 covers Code Sections I II III IV VI and VII as well as Codes B31 1 and B31 3 for Piping Volume 2 includes Sections V VII IX X and XI as well as special topics relating to the Code Each volume contains full introductory material table of contents author information and indexes for both volumes

Industrial Piping and Equipment Estimating Manual Kenneth Storm, 2023-10-17 Industrial Piping and Equipment Estimating Manual Second Edition delivers a comprehensive overview of information that engineers estimators and managers need to develop estimates and create bids Packed with worksheets covering combined and simple cycle power plants refineries compressor stations ethanol hydrogen and biomass plants this reference helps construction engineers and estimators create bids where scope and quantity differences can be identified and project impacts estimated This updated manual provides a comprehensive accurate method for compiling piping and equipment man hour estimates for industrial process plants including Solar Geothermal and Biomass Energy This comprehensive current manual details scopes of work based on process and increased safety in field erection Estimating methods and statistical applications reduce errors for estimators to produce accurate estimates making it an ideal go to reference for estimators engineers and managers with a level of detail and equipment breakdown necessary for today s complex industrial operations Explains estimating methods scopes of work man hour data tables and estimate sheets to produce direct craft man hour estimates RFPs and field change orders Includes scopes of work and man hour data tables for any complexity of design bid and contract Identifies quantity differences using the comparison method to eliminate impacts between proposed and previously installed equipment Represents a broad mix of energy sources including Combined and Simple Cycle Power Plants Refineries Hydrogen Plants

Biomass Ethanol and Geothermal Power Plants Compressor Stations and Wastewater Treatment Plants **Design of FRP and Steel Plated RC Structures** Deric Oehlers, Rudolph Seracino, 2004-09-11 There are a large and ever increasing number of structures and buildings worldwide that are in need of refurbishment rehabilitation and strengthening The retrofitting of beams and slabs for this purpose is now recognized as the most cost effective and environmentally sustainable method of carrying out this essential renovation work The authors of Design of FRP and Steel Plated RC Structures are both acknowledged world experts on these techniques and their book has been designed to provide the reader with a comprehensive overview of the established techniques and their applications as well as thorough coverage of newly emerging methodologies and their uses The comparison of FRP and steel is a particular focus and the authors provide practical examples of where one material might be used in preference to another Indeed practical worked examples of how when and why specific solutions have been chosen in real world situations are used throughout the text and provide the user with invaluable insights into the decision making process and its technical background Just as importantly these examples make the understanding and application of these techniques easier to understand for the student and the practitioner The book is international in appeal as while no reference is made to specific local codes the authors approach always follows that of the more advanced structural codes worldwide As such it will remain an essential resource for many years to come Design of FRP and Steel Plated RC Structures is an important reference for a broad range of researchers students and practitioners including civil engineers and contractors architects designers and builders Contains detailed worked examples throughout to aid understanding and provide technical insight Covers all types of metal plates and all types of FRP plates Uses design philosophies that can be used with any mathematical model Provides coverage of all main international guidelines

Advances in FRP Composites in Civil Engineering Lieping Ye, Peng Feng, Qingrui Yue, 2012-02-01 Advances in FRP Composites in Civil Engineering contains the papers presented at the 5th International Conference on Fiber Reinforced Polymer FRP Composites in Civil Engineering in 2010 which is an official conference of the International Institute for FRP in Construction IIFC The book includes 7 keynote papers which are presented by top professors and engineers in the world and 203 papers covering a wide spectrum of topics These important papers not only demonstrate the recent advances in the application of FRP composites in civil engineering but also point to future research endeavors in this exciting area Researchers and professionals in the field of civil engineering will find this book is exceedingly valuable Prof Lieping Ye and Dr Peng Feng both work at the Department of Civil Engineering Tsinghua University China Qingrui Yue is a Professor at China Metallurgical Group Corporation **Advanced Fibre-Reinforced Polymer (FRP) Composites for Structural Applications** Jiping Bai, 2013-09-30 Advanced fibre reinforced polymer FRP composites have become essential materials for the building of new structures and for the repair of existing infrastructure Advanced fibre reinforced polymer FRP composites for structural applications provides an overview of different advanced FRP composites and the use of these

materials in a variety of application areas Part one introduces materials used in the creation of advanced FRP composites including polyester vinylester and epoxy resins Part two goes on to explore the processing and fabrication of advanced FRP composites and includes chapters on prepreg processing and filament winding processes Part three highlights properties of advanced FRP composites and explores how performance can be managed and tested Applications of advanced FRP composites including bridge engineering pipe rehabilitation in the oil and gas industry and sustainable energy production are discussed in part four With its distinguished editor and international team of expert contributors Advanced fibre reinforced polymer FRP composites for structural applications is a technical resource for researchers and engineers using advanced FRP composites as well as professionals requiring an understanding of the production and properties of advanced FRP composites and academics interested in this field Provides an overview of different advanced FRP composites and the use of these materials in a variety of application areas Introduces materials used in the creation of advanced FRP composites including polyester vinylester and epoxy resins Explores the processing and fabrication of advanced FRP composites and includes chapters on prepreg processing and filament winding processes

10th International Conference on FRP Composites in Civil Engineering Alper Ilki, Medine Ispir, Pinar Inci, 2021-11-26 This volume highlights the latest advances innovations and applications in the field of FRP composites and structures as presented by leading international researchers and engineers at the 10th International Conference on Fibre Reinforced Polymer FRP Composites in Civil Engineering CICE held in Istanbul Turkey on December 8 10 2021 It covers a diverse range of topics such as All FRP structures Bond and interfacial stresses Concrete filled FRP tubular members Concrete structures reinforced or pre stressed with FRP Confinement Design issues guidelines Durability and long term performance Fire impact and blast loading FRP as internal reinforcement Hybrid structures of FRP and other materials Materials and products Seismic retrofit of structures Strengthening of concrete steel masonry and timber structures and Testing The contributions which were selected by means of a rigorous international peer review process present a wealth of exciting ideas that will open novel research directions and foster multidisciplinary collaboration among different specialists

Fiberglass-reinforced Plastics Deskbook Nicholas P. Cheremisinoff, Paul N. Cheremisinoff, 1978

FRP Technology R. Weatherhead, 2012-12-06 Synthetic resins have become increasingly important over the years finding wide application in a variety of fields Not least have been the tremendous strides made in the use of fibre reinforced resin systems Although by far the bulk of all fibre reinforced products are made from unsaturated polyester resins reinforced with glass fibres other resins and other fibres are playing an increasingly important role It is with this in mind that the present book has been written An attempt has been made to combine within one book information on the various resin systems and reinforcing fibres in use today together with some properties and processing details Since most of the resins available are formulated products rather than pure chemical compounds some information has been included on commercially available materials For convenience where commercial data have been

included these have been located at the end of the appropriate chapter or where only limited data are presented at the end of the appropriate section Such data have been included for the benefit of designers and fabricators to indicate the wide choice of materials available and to enable them to select materials without having to approach a vast number of suppliers and then to sift through an even greater number of data sheets

Advanced fibre-reinforced polymer (FRP) composites for structural applications L.C. Hollaway, 2013-09-30 This chapter continues the discussions of the development of advanced polymer composite material applications associated with bridge engineering It focuses on the rehabilitation of metallic bridge structures all FRP composite bridges and bridges built with hybrid systems covered the materials used in FRP composites in service properties and applications of FRP composites in bridge enclosures the rehabilitation of reinforced and prestressed concrete bridge beams and columns

Design of FRP Systems for Strengthening Concrete Girders in Shear Abdeldjelil Belarbi, 2011 TRB s National Cooperative Highway Research Program NCHRP Report 678 Design of FRP Systems for Strengthening Concrete Girders in Shear offers suggested design guidelines for concrete girders strengthened in shear using externally bonded Fiber Reinforced Polymer FRP systems The guidelines address the strengthening schemes and application of the FRP systems and their contribution to shear capacity of reinforced and prestressed concrete girders The guidelines are supplemented by design examples to illustrate their use for concrete beams strengthened with different FRP systems Appendix A of NCHRP Report 678 which contains the research agency s final report provides further elaboration on the work performed in this project Appendix A Research Description and Findings is only available online

Mechanics of Structures and Materials XXIV Hong Hao, Chunwei Zhang, 2019-08-08 Mechanics of Structures and Materials Advancements and Challenges is a collection of peer reviewed papers presented at the 24th Australasian Conference on the Mechanics of Structures and Materials ACMSM24 Curtin University Perth Western Australia 6-9 December 2016 The contributions from academics researchers and practising engineers from Australasian Asia pacific region and around the world cover a wide range of topics including Structural mechanics Computational mechanics Reinforced and prestressed concrete structures Steel structures Composite structures Civil engineering materials Fire engineering Coastal and offshore structures Dynamic analysis of structures Structural health monitoring and damage identification Structural reliability analysis and design Structural optimization Fracture and damage mechanics Soil mechanics and foundation engineering Pavement materials and technology Shock and impact loading Earthquake loading Traffic and other man made loadings Wave and wind loading Thermal effects Design codes Mechanics of Structures and Materials Advancements and Challenges will be of interest to academics and professionals involved in Structural Engineering and Materials Science

Industrial Thermoplastic and Thermoset Piping Systems Plastic Piping Systems, Inc, 1980

HVAC Procedures and Forms Manual Herbert Wendes, 2002 Developed over the course of many years of on the job projects involving HVAC energy auditing testing balancing and cost estimating and refined through feedback from thousands of engineers and technicians who have used

them the forms contained in this manual are concise comprehensive and optimally organized for easy reference Complete sets of forms are provided for all aspects of testing and balancing energy auditing indoor quality diagnosis and load calculations The first edition entitled HVAC Energy Audit Balancing Forms Manual compiled these time saving forms for the first time in a single reference This enhanced second edition adds a new chapter on technical management providing procedures for achieving thorough systematic and accurate problem solving troubleshooting and decision making in building systems management and contracting

Mechanical Estimating Manual Joseph D'Amelio, 2021-01-21 First published in 2006 Clear practical and comprehensive this mechanical estimating manual provides an indispensable resource for contractors estimators owners and anyone involved with estimating mechanical costs on construction projects including a wealth of labor and price data formulas charts and graphs Covering timeproven methodologies and procedures it offers the user a full range of readytouse forms detailed estimating guidelines and numerous completed examples You ll learn from leading experts how to produce complete and accurate sheet metal piping and plumbing estimates both quickly and easily The manual will also be of value to supervisors mechanics builders general contractors engineers and architects for use in planning and scheduling work budget estimating cost control cost accounting checking change orders and various other aspects of mechanical estimating

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