

Cast carbon, stainless or alloy steel

NPS 2–48 (DN 50–1200), ASME Classes 150–1500



ASME Class	Figure number
150	01 14C
300	11 14C
600	21 14C

ASME Class	Figure number
900	71 14C
1500	31 14C

Design features

- Body and cover castings are precision machined. Exclusive: Disc shaft does not penetrate body.
- Body and cover joint accurately machined. Fully-enclosed gasket.
- Disc: Robust one-piece construction to withstand the severe shock of check valve service. Hardfaced with 13Cr, CoCr alloy, SS 316, or Monel, ground and lapped to a mirror finish. Sizes NPS 2–6 (DN 50–150) may have solid CA 15 (13Cr) disc. SS 316 disc with CoCr alloy facing also available.
- Disc assembly: Non-rotating disc is fastened securely to disc hanger with a lock nut and cotter pin. Disc hanger is supported on a sturdy disc carrier hinge pin of excellent bearing qualities. All parts are accessible from top for easy servicing.
- Flanges
ASME Classes: 150–300: 1/4" raised face.
ASME Classes: 600–1500: 1/2" raised face.
Finish: 125–250 AARH for all valves.

* API 594 Type B cast steel swing check valves.

Standard materials

Part	Materials			
Body (1)	WCB	WC6	WC9	CF8M
Seat (1)(2)	CoCr alloy faced CS	CoCr alloy faced F11	CoCr alloy faced F22	CoCr alloy faced F316
Hinge pin (2)	SS 410			SS 316
Gasket (1)	Spiral wound stainless steel/graphite			
Cover stud	Gr. B7	B16		B8M Cl. 2
Cover nut	Gr. 2H	Gr. 7		Gr. 8M
Cover (2)	WCB	WC6	WC9	CF8M
Washer	Commercial			
Disc (2)	CA 15 or 13Cr faced WCB	CA 15 or 13Cr faced WC6	CA 15 or 13Cr faced WC9	CF8M
Disc hanger	WCB	WC6	WC9	CF8M
Disc nut	Gr. 2H	Gr. 4		Gr. 8M

(1) Other materials available. (2) Hardfaced.

For forged steel check valves, ASME Classes 900–2500 are also available.

Api Std 594

R. W. Zappe



Api Std 594:

Index of Specifications and Standards ,2005 *Piping Materials Guide* Peter Smith,2005-01-20 The only book of its kind on the market this book is the companion to our Valve Selection Handbook by the same author Together these two books form the most comprehensive work on piping and valves ever written for the process industries This book covers the entire piping process including the selection of piping materials according to the job the application of the materials and fitting trouble shooting techniques for corrosion control inspections for OSHA regulations and even the warehousing distributing and ordering of materials There are books on materials fitting OSHA regulations and so on but this is the only one stop shopping source for the piping engineer on piping materials Provides a one stop shopping source for the piping engineer on piping materials Covers the entire piping process Designed as an easy to access guide *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 Guidelines for Engineering Design for Process Safety ,1993 Inherently safer plants begin with the initial design Here is where integrity and reliability can be built in at the lowest cost and with maximum effectiveness This book focuses on process safety issues in the design of chemical petrochemical and hydrocarbon processing facilities It discusses how to select designs that can prevent or mitigate the release of flammable or toxic materials which could lead to a fire explosion or environmental damage All engineers on the design team the process hazard analysis team and those who make basic decisions on plant design will benefit from its comprehensive coverage its organization and the extensive references to literature codes and standards that accompany each chapter *Publications, Programs & Services* American Petroleum Institute,2005 **Hydrocarbon Processing** ,1980 *Piping Handbook* Mohinder L. Nayar,1999-11-04 Instant answers to your toughest questions on piping components and systems It s impossible to know all

the answers when piping questions are on the table the field is just too broad That s why even the most experienced engineers turn to Piping Handbook edited by Mohinder L Nayyar with contribution from top experts in the field The Handbook s 43 chapters 14 of them new to this edition and 9 new appendices provide in one place everything you need to work with any type of piping in any type of piping system design layout selection of materials fabrication and components operation installation maintenance This world class reference is packed with a comprehensive array of analytical tools and illustrated with fully worked out examples and case histories Thoroughly updated this seventh edition features revised and new information on design practices materials practical applications and industry codes and standards plus every calculation you need to do the job

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web bolt torque is calculated for a flanged assembly using the following equation applied torque $t = k \cdot d \cdot F$ in fps unit where t torque in ft lb k dimensionless nut factor or tightening factor F axial force in pounds d nominal bolt diameter in inches in the metric system torque applied $t = k \cdot d \cdot F / 1000$ where t torque in n m F bolt load in n

bolt tightening sequence pdf squarespace - Apr 29 2022

web easy handling bolt numbering shall be done clockwise around the flange with the following sequence the table below shows the torque sequence for flanges with 4 to 32 bolts number of bolt studbolt tightening sequence to follow 4 bolt flange 1 3 2 4 8 bolt flange 1 5 3 7 2 6 4 8 12 bolt flange 1 7 4 10 2 8 5 11 3 9 6 12 16 bolt

bolt tightening sequence procedures maxpro corp - Mar 09 2023

web for flanges with 12 or more bolts 1 st round 20 percent of final torque 2 nd round 40 percent of final torque 3 rd round 80 percent of final torque 4 th round 100 percent of final torque final round clockwise or counter clockwise around the flange please take note the above bolt tightening sequences are the most

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web jan 27 2021 the gasket type and arrangement of the flange connection are both critical to choosing which tightening sequence an assembler can use this article which is intended for supervisors engineers or anyone else who oversees bolted flange assembly or maintenance will discuss different torque sequences

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web number of bolt stud bolt tightening sequence to follow 4 bolt flange 1 3 2 4 8 bolt flange 1 5 3 7 2 6 4 8 12 bolt flange 1 7 4 10 2 8 5 11 3 9 6 12 16 bolt flange 1 9 5 13 3 11 7 15 2 10 6 14 4 12 8 16 20 bolt flange 1 11 6 16 3 13 8 18 5 15 10 20 2 12 7 17 4 14 9 19 24 bolt flange

bolt tightening sequence albion valves - Feb 08 2023

web ensure the bolt lengths allow for a minimum of 2 3 threads protruding beyond the top of the nut when tightened bolts must be tightened according to the below sequence options assemble bolts hand tight maximum 30 of final tightening torque as per below cross pattern sequences

tightening sequence inertech - Jul 13 2023

web step 1 liberally lubricate all load bearing surfaces including threads and flat washers then install and finger tighten all fasteners number the bolts flange according to the bolt torque sequence step 2 set the torque wrench to 1 3 of the target torque value and tighten in an order bolts 1 2 3 4 until all have been tightened

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web welcome to this interactive flange bolting calculator from hytorc the program computes recommended torque values bolting patterns tool selection and pump pressure settings for standard asme b16 5 and api 6a flanges under normal assembly conditions

flange bolt up torque tightening preload torque procedures - Oct 04 2022

web tightening sequence the first pass lightly tighten the first bolt then move directly across or 180 degrees for the second bolt then move 1/4 turn around the circle or 90 degrees for the third bolt and directly across for the fourth continue this sequence until all bolts are tightened when tightening a four bolt flange use a criss cross

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web dec 17 2020 bolt tightening sequence why it matters to complete a flange joint securely it is essential to control the stress variation in the flange joint components in the case of the gasket this needs to be compressed evenly across the flange face if you were to tighten adjacent bolts when those opposite remain loose the result will be

bolt tightening procedure piping designer - Jun 12 2023

web jan 10 2016 twelve bolt tightening sequence sequential order 1 2 3 4 5 6 7 8 9 10 11 12 rotation order 1 5 9 3 7 11 2 6 10 4 8 12 sixteen bolt tightening sequence sequential order 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 rotation order 1 9 5 13 3 11 7 15 2 10 6 14 4 12 8 16 twenty bolt tightening sequence

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