

2nd Edition

SECTION 2—BASIC DESIGN

2.1 General

2.1.1 The equipment (including auxiliaries) covered by this standard shall be designed and constructed for minimum service life of 20 years and at least three years of uninterrupted operation. It is recognized that this is a design criterion.

2.1.2 The vendor shall assume unit responsibility for all equipment, including pump, driver, power transmission, and all auxiliary systems included in the scope of the order.

2.1.3 The purchaser will specify the equipment's normal operating point on the data sheets. If a range of operating conditions is specified, the pump vendor shall advise the purchaser about the pump's minimum and maximum capacity at its rated differential pressure and its required brake horsepower. Anticipated process variations that may affect the sizing of the pump and the driver (such as changes in pressure, temperature, or properties of fluids handled, and special plant startup conditions) will be specified.

2.1.4 Control of the sound pressure level (SPL) of all equipment furnished shall be a joint effort of the purchaser and the vendor. The equipment furnished by the vendor shall conform to the maximum allowable sound pressure level specified by the purchaser.

2nd Edition

6 Basic Design

6.1 General

6.1.1 The equipment (including auxiliaries, but excluding normal maintenance shall be designed and constructed for a minimum service life of 20 years and at least 3 years of uninterrupted operation. It is recognized that these requirements are design criteria, and that service or duty severity, mis-operation or improper maintenance can result in a machine failing to meet these criteria.

The term "design" shall apply to parameters or features of the equipment supplied by the manufacturer. The term "design" should not be used in the purchaser's enquiry or specification because it can cause confusion in understanding the order.

6.1.2 • The purchaser shall specify the normal operating point and all other required operating points. If a range of operating conditions is specified, the pump supplier shall advise the purchaser about the pump's minimum and maximum capacity at its rated differential pressure and its required brake horsepower. Anticipated process variations that may affect the sizing of the pump and the driver (such as changes in pressure, temperature, or properties of fluids handled, and special plant startup conditions) shall be specified.

6.1.3 • Pumps shall be designed for flammable or hazardous services. If specified that the pump is to be used in non-flammable or non-hazardous services, the supplier may provide an alternate design.

6.1.4 Control of the sound pressure level (SPL) of all equipment supplied shall be a joint effort of the purchaser and the supplier having unit responsibility. The equipment provided by the supplier shall conform to the maximum allowable sound pressure level specified. In order to determine compliance, the supplier shall provide both maximum sound pressure and sound power level data per octave band for the equipment.

2.1.5 Equipment shall be designed to run without damage to the trip speed and relief valve settings.

2.1.6 The arrangement of the equipment, including piping and auxiliaries, shall be developed jointly by the purchaser and the vendor. The arrangement shall provide adequate clearance areas and safe access for operation and maintenance.

2.1.7 Motors, electrical components, and installations shall be suitable for the area classification (class, group, and division or zone) specified by the purchaser on the data sheets and shall meet the requirements of NFPA 70, Articles 500, 501, 502 and 504, as well as local codes specified and furnished by the purchaser.

2.1.8 Oil reservoirs and housings that enclose moving lubricated parts (such as bearings, shaft seals, highly polished parts, instruments, and control elements) shall be designed to minimize contamination by moisture, dust, and other foreign matter during periods of operation and idleness.

2.1.9 All equipment shall be designed to permit rapid and economical maintenance, particularly regarding marine and seals. Major parts shall be designed disassembled or

6.1.5 Equipment shall be selected to run simultaneously at the pressure-limiting accumulation pressure and at trip speed without suffering damage. Supplier shall advise purchaser of increased power operating requirements necessary to achieve this.

6.1.6 For direct driven equipment the equipment's maximum continuous operating speed shall be not less than 100% of the rated speed for adjustable speed machines and shall be equal to the rated speed for constant speed motor drives.

6.1.7 For gear-driven equipment the gearbox input shaft maximum continuous operating speed shall not be less than 100% of the rated speed for adjustable speed machines and shall be equal to the rated speed for constant speed motor drives.

6.1.8 The equipment's trip speed shall not be less than the following percentages of maximum continuous speed:
Adjustable speed motor 110%
Constant speed motor 100%
Reciprocating engine 110%

6.1.9 The arrangement of the equipment, including piping and auxiliaries, shall be developed jointly by the purchaser and the supplier. The arrangement shall provide adequate clearance areas and safe access for operation and maintenance.

• 6.1.10 Motors, electrical components, and electrical installations shall be suitable for the area classification (class, group, and division or zone) specified by the purchaser and shall meet the requirements of the applicable sections of NEC 500.75, or NFPA 70, API RP 500, and NEC as specified, as well as any local codes specified and supplied by the purchaser.

6.1.11 Oil reservoirs and housings that enclose moving lubricated parts such as bearings, shaft seals, highly polished parts, instruments, and control elements shall be designed to minimize contamination by moisture, dust, and other foreign matter during periods of operation and idleness.

6.1.12 All equipment shall be designed to permit rapid and economical maintenance, particularly regarding marine and seals. Major parts shall such as rotor components and

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G Thomas



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China Foreign Enterprise Directory 3rd Edition - 2006 , **An Applied Guide to Process and Plant Design** Sean Moran, 2019-06-12 An Applied Guide to Process and Plant Design 2nd edition is a guide to process plant design for both students and professional engineers The book covers plant layout and the use of spreadsheet programs and key drawings produced by professional engineers as aids to design subjects that are usually learned on the job rather than in education You will learn how to produce smarter plant design through the use of computer tools including Excel and AutoCAD What If Analysis statistical tools and Visual Basic for more complex problems The book also includes a wealth of selection tables covering the key aspects of professional plant design which engineering students and early career engineers tend to find most challenging Professor Moran draws on over 20 years experience in process design to create an essential foundational book ideal for those who are new to process design compliant with both professional practice and the IChemE degree accreditation guidelines Includes new and expanded content including illustrative case studies and practical examples Explains how to deliver a process design that meets both business and safety criteria Covers plant layout and the use of spreadsheet programs and key drawings as aids to design Includes a comprehensive set of selection tables covering aspects of professional plant design which early career designers find most challenging *Pharmaceutical Inhalation Aerosol Technology, Third Edition* Anthony J. Hickey, Sandro R. da Rocha, 2019-03-26 This fully revised and updated third edition of Pharmaceutical Inhalation Aerosol Technology encompasses the scientific and technical foundation for the rationale design componentry assembly and quality performance metrics of therapeutic inhalers in their delivery of pharmaceutical aerosols to treat symptoms or the underlying causes of disease It focuses on the importance of pharmaceutical engineering as a foundational element of all inhaler products and their application to pulmonary drug delivery The expanded scope considers previously unaddressed aspects of pharmaceutical inhalation aerosol technology and the patient interface by including aerosol delivery lung deposition and clearance that are used as measures of effective dose delivery Key Features Provides a thoroughly revised and expanded reference with authoritative discussions on the physiologic pharmacologic metabolic molecular cellular and physicochemical factors influencing the efficacy and utilization of pharmaceutical aerosols Emphasizes the importance of pharmaceutical engineering as a foundational element of all inhaler products and their application to pulmonary drug delivery Addresses the physics chemistry and engineering principles while establishing disease relevance Expands the technology focus of the original volumes to address the title more directly Offers an impressive breadth of coverage as well as an international flavour from outstanding editors and contributors *Process Plant Layout* Sean Moran, 2016-11-16 Process Plant Layout Second Edition explains the methodologies used by professional designers to layout process equipment and pipework plots plants sites and their corresponding environmental features in a safe economical way It is supported with tables of separation distances rules of thumb and codes of practice and standards

The book includes more than seventy five case studies on what can go wrong when layout is not properly considered Sean Moran has thoroughly rewritten and re illustrated this book to reflect advances in technology and best practices for example changes in how designers balance layout density with cost operability and safety considerations The content covers the why underlying process design company guidelines providing a firm foundation for career growth for process design engineers It is ideal for process plant designers in contracting consultancy and for operating companies at all stages of their careers and is also of importance for operations and maintenance staff involved with a new build guiding them through plot plan reviews Based on interviews with over 200 professional process plant designers Explains multiple plant layout methodologies used by professional process engineers piping engineers and process architects Includes advice on how to choose and use the latest CAD tools for plant layout Ensures that all methodologies integrate to comply with worldwide risk management legislation

Fire Pump Arrangements at Industrial Facilities Dennis P. Nolan,2017-05-22 Fire Pump Arrangements at Industrial Facilities Third Edition delivers a practical reference from an author with a successful professional career in fire protection and loss prevention engineering in the oil and gas industry While most regulatory standards are left to interpretation and try to cover multiple industries in one location this book focuses on the equipment standards and operations specific to the petroleum industry covering quality controls pump drivers and scheduled maintenance and audits so the equipment remains in safety compliance Enhanced with new sections on human factors case studies for modeling fire accidents and a look at recent events that have further shaped the safety and testing of fire pumps the book provides the engineer and manager with a critical oil and gas resource for every aspect of firewater pumps Remains the go to reference for loss prevention specialists and fire engineering specific to the oil and gas industry Enhanced with new sections on quality audits and new case studies that evaluate operational issues and applications Fills in the practical hands on information gap not covered in the regulatory standards

ASP.NET Core in Action, Third Edition Andrew Lock,2023-09-05 ASP NET Core in Action 3rd edition by Microsoft MVP Andrew Lock is a fully updated edition ideal for intermediate C developers and teaches you how to use your C and NET skills to build amazing cross platform web applications Even if you have never worked with ASP NET you will soon start creating productive cross platform web apps

JavaScript The Complete Reference 3rd Edition Thomas A. Powell,Fritz Schneider,2012-07-22 The essential JavaScript resource fully updated Design debug and publish high performance web pages and applications using tested techniques and best practices from expert developers The all new edition of this comprehensive guide has been thoroughly revised and expanded to cover the latest JavaScript features tools and programming methods JavaScript The Complete Reference Third Edition provides illustrative examples line by line code samples and practical development advice from the core of the language to the various standard and emerging APIs supported by modern web browsers This in depth resource covers everything you need to know whether you re trying to understand the fundamentals of weak typing in JavaScript reduce your confusion over closures or perform common tasks like

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SQL The Complete Reference, 3rd Edition James R. Groff, Paul N. Weinberg, Andy Oppel, 2008-10-01 The Definitive Guide to SQL Get comprehensive coverage of every aspect of SQL from three leading industry experts Revised with coverage of the latest RDBMS software versions this one stop guide explains how to build populate and administer high performance databases and develop robust SQL based applications SQL The Complete Reference Third Edition shows you how to work with SQL commands and statements set up relational databases load and modify database objects perform powerful queries tune performance and implement reliable security policies Learn how to employ DDL statements and APIs integrate XML and Java scripts use SQL objects build web servers handle remote access and perform distributed transactions Techniques for managing in memory stream and embedded databases that run on today s mobile handheld and wireless devices are included in this in depth volume Build SQL based relational databases and applications Create load and modify database objects using SQL Construct and execute simple multitable and summary queries Implement security measures with authentication privileges roles and views Handle database optimization backup recovery and replication Work with stored procedures functions extensions triggers and objects Extend functionality using APIs dynamic SQL and embedded SQL Explore advanced topics such as DBMS transactions locking mechanisms materialized views and two phase commit protocol Understand the latest market trends and the future of SQL

Compression Machinery for Oil and Gas Klaus Brun, Rainer Kurz, 2018-11-30 Compression Machinery for Oil and Gas is the go to source for all oil and gas compressors across the industry spectrum Covering multiple topics from start to finish this reference gives a complete guide to technology developments and their applications and implementation including research trends Including information on relevant standards and developments in subsea and downhole compression this book aids engineers with a handy single resource that will help them stay up to date on the compressors needed for today s oil and gas applications Provides an overview of the latest technology along with a detailed discussion of engineering Delivers on the efficiency range and limit estimations for machines Pulls together multiple contributors to balance content from both academics and corporate research

Fixed-Bed Reactor Design and Diagnostics Howard F. Rase, 2013-10-22 Fixed Bed Reactor Design and Diagnostics Gas Phase Reactions presents the essential theoretical and conceptual background of gaseous reactions catalyzed by solid catalysts in fixed beds This book intends to provide recommendations to professionals who seek for modeling scale up and diagnostics of fixed bed reactors

The text is divided into three parts Part I provides the conceptual background and relevant theories Part II presents recommended mathematical models scale up procedures and diagnostic methods Part III gives a number of practical examples The topics that are specifically discussed include heterogeneous catalysis and kinetics general tubular reactor model and general diagnostics for fixed bed reactors Engineers and professionals working with fixed bed reactors will find the book highly informative

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web the formula for finding out the median is the sum of those two numbers divided by two ie $\frac{a + b}{2}$ where a and b are numbers for whom you want to find the median here s how it works suppose you have a line segment on the number line with start point 3 and end point 5 the midpoint of the segment is 4

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web may 28 2023 example 11 2 use the distance formula to find the distance between the points 5 3 and 7 2 answer write the distance formula $d = \sqrt{(x_2 - x_1)^2 + (y_2 - y_1)^2}$ label the points $x_1 = 5$ $y_1 = 3$ $x_2 = 7$ $y_2 = 2$ and substitute d

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web you can use the midpoint and distance formulas to find midpoint and distance as long as you know the coordinates of two points what is distance and midpoint the distance between two points is the length of the line segment connecting them

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web 1 use the distance formula 2 use the midpoint formula examples 1 find the distance between the points 3 7 and 4 10 2 determine whether the triangle formed by points a 2 2 b 2 1 and c 5 4 is a right triangle 3 find the midpoint of the line segment joining the points p1 6 3 and p2 4 2 teaching notes

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web the blue text midpoint midpoint of the points greend x 1 goldd y 1 x1 y1 and greend x 2 goldd y 2 x2 y2 is given by the following formula left greend $\frac{x_1 + x_2}{2}$ goldd $\frac{y_1 + y_2}{2}$ right 2x1 x2 2y1 y2 in this article we re going to derive this

formula

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web how to find distance between two points to find distance between points $a(x_1, y_1)$ and $b(x_2, y_2)$ we use formula color blue
 $d = \sqrt{(x_2 - x_1)^2 + (y_2 - y_1)^2}$ example find distance between points $a(3, 4)$ and $b(1, 3)$ solution in this example we have $x_1 = 3, y_1 = 4, x_2 = 1, y_2 = 3$ so we have

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web 1 answer write the formula $m = \left(\frac{x_1 + x_2}{2}, \frac{y_1 + y_2}{2} \right)$ substitute 2, 3 for x_1, y_1 and 2, 2 for x_2, y_2 $m = \left(\frac{2 + 2}{2}, \frac{3 + 2}{2} \right) = (2, 2.5)$
2 the midpoint of the line segment ab is $m(2, 2.5)$

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web this method can be used to determine the distance between any two points in a coordinate plane and is summarized in
the distance formula $d = \sqrt{(x_2 - x_1)^2 + (y_2 - y_1)^2}$ the point that is at the same distance from two points $a(x_1, y_1)$
1 and $b(x_2, y_2)$ on a line is called the midpoint you

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1 and 8 3 b 11 4 and 6 4 c 17 7 and 7 6 2 answer the following the midpoint of ab is 3 3 plot points and use graphs to
solutions if point a 2 4 what is point b b il distance

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formula $d = \sqrt{(x_2 - x_1)^2 + (y_2 - y_1)^2}$ label the points $x_1, y_1 = 5, 3$ $x_2, y_2 = 7, 2$ and substitute $d = \sqrt{(7 - 5)^2 + (2 - 3)^2}$ simplify $d = \sqrt{2^2 + (-1)^2} = \sqrt{4 + 1} = \sqrt{5}$

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