

Kreiselpumpen (Radial-, Halbaxial- und Axialstrahlpumpen)
Regeln für die Messung des hydraulischen Betriebsverhaltens
Präzisionsklasse

(ISO 5198 : 1997) Deutsche Fassung EN 5198 : 1998

DIN
EN ISO 5198

ICS 23.060

Centrifugal, mixed flow and axial pumps – Code for hydraulic performance tests –
 Precision class (ISO 5198 : 1997);
 German version EN 5198 : 1998
 Pompes centrifuges, hélico-centrifuges et hélices – Code d'essais de fonc-
 tionnement hydraulique – Classe de précision (ISO 5198 : 1997);
 Version allemande EN 5198 : 1998

Die Europäische Norm EN ISO 5198 : 1998 hat den Status einer Deutschen Norm.

Beginn der Gültigkeit

EN ISO 5198 : 1998 wurde am 8. November 1998 angenommen.

Nationales Vorwort

Diese Norm beinhaltet die Deutsche Fassung der vom Subkomitee 2 „Meß- und Prüfverfahren“ des Technischen Komitees TC 115 „Pumpen“ der Internationalen Organisation für Normung (ISO) in Zusammenarbeit mit dem Subkomitee 3 „Prüfungen“ des Technischen Komitees TC 197 „Pumpen“ des Europäischen Komitees für Normung (CEN) ausgearbeiteten Norm EN ISO 5198 : 1998.

Die Deutsche Fassung wurde unter Mitwirkung des nationalen Arbeitsausschusses AA 1 „Kreiselpumpen“ und dessen Unterausschuß UA 1.3 „Hydraulische Messung und Prüfung“ des Fachbereiches Pumpen im Normenausschuß Maschinenbau (NAM) im DIN bearbeitet.

Für die in Abschnitt 2 zitierten internationalen Normen, soweit sie nicht als DIN ISO-Normen veröffentlicht sind, wird im folgenden auf die deutschen Normen mit entsprechendem oder ähnlichem Inhalt hingewiesen:

ISO 31 siehe DIN 1313
 ISO 2548 siehe DIN 1944
 ISO 3534 siehe DIN 55350-33
 ISO 3655 siehe DIN 1944
 ISO 4359 siehe DIN 19559-1, DIN 19559-2
 IEC 34-2 siehe DIN VDE 0530-2

Fortsetzung Seite 2
 und 82 Seiten EN

Normenausschuß Maschinenbau (NAM) im DIN Deutsches Institut für Normung e.V.

En Iso 5198

Kazuo Tanishita, Kimiko Yamamoto



En Iso 5198:

Handbook of Pumps and Pumping Brian Nesbitt, 2006-10-18 Written by an experienced engineer this book contains practical information on all aspects of pumps including classifications materials seals installation commissioning and maintenance In addition you will find essential information on units manufacturers and suppliers worldwide providing a unique reference for your desk R D lab maintenance shop or library Includes maintenance techniques helping you get the optimal performance out of your pump and reducing maintenance costs Will help you to understand seals couplings and ancillary equipment ensuring systems are set up properly to save time and money Provides useful contacts for manufacturers and suppliers who specialise in pumps pumping and ancillary equipment Predictive Maintenance of Pumps Using

Condition Monitoring Raymond S Beebe, Raymond S. Beebe, 2004-04-16 Condition monitoring and its part in maintenance pump performance and the effect of water performance analysis and testing of pumps for condition monitoring performance analysis and its application to optimise time for overhaul other methods of performance analysis for pump condition monitoring vibration analysis of pumps basic vibration analysis of pumps advanced methods other uses of condition monitoring information other condition monitoring methods positive displacement pumps case studies in condition monitoring of pumps

Engineers' Guide to Rotating Equipment Clifford Matthews, 2002-02-15 This handy reference source is a companion volume to the author's *Engineers Guide to Pressure Equipment* Heavily illustrated and containing a wealth of useful data it offers inspectors engineers operatives and those maintaining engineering equipment a one stop everyday package of information It will be particularly helpful in guiding users through the legislation that regulates this field Legislation has very important implications for works inspection and in service inspection of mechanical plant An *Engineers Guide to Rotating Equipment* is packed with information technical data figures tables and checklists Details of relevant technical standards the legislation and Accepted Codes of Practice ACoPs published by various bodies such as HSE and SAFed are provided in addition to a number of website addresses and contact details COMPLETE CONTENTS Engineering fundamentals Bending torsion and stress Motion and dynamics Rotating machine fundamentals Vibration balancing and noise Machine elements Fluid mechanics Centrifugal pumps Compressors and turbocompressors Prime movers Draught plant Basic mechanical design Materials of construction The machinery directives Organisations and associations **Centrifugal Pump**

Handbook Sulzer Sulzer Pumps, 2010-09-23 This long awaited new edition is the complete reference for engineers and designers working on pump design and development or using centrifugal pumps in the field This authoritative guide has been developed with access to the technical expertise of the leading centrifugal pump developer Sulzer Pumps In addition to providing the most comprehensive centrifugal pump theory and design reference with detailed material on cavitation erosion selection of materials rotor vibration behavior and forces acting on pumps the handbook also covers key pumping applications topics and operational issues including operating performance in various types of circuitry drives and

acceptance testing Enables readers to understand specify and utilise centrifugal pumps more effectively drawing on the industry leading experience of Sulzer Pumps one of the world s major centrifugal pump developers Covers theory design and operation with an emphasis on providing first class quality and efficiency solutions for high capital outlay pump plant users Updated to cover the latest design and technology developments including applications test and reliability procedures cavitation erosion selection of materials rotor vibration behaviour and operating performance in various types of circuitry

Vascular Engineering Kazuo Tanishita, Kimiko Yamamoto, 2016-03-17 This book describes the fundamental biology and mechanics of the vasculature and examines how this knowledge has underpinned the development of new clinical modalities including endovascular treatment and vascularization of reconstructed tissue for regenerative medicine Vascular engineering is a multidisciplinary field integrating vascular biology hemodynamics biomechanics tissue engineering and medicine Each chapter offers insights into the dynamics of the circulatory system and explains how the impact of related disease conditions atherosclerosis hypertension myocardial ischemia and cerebral infarction has generated a focus on developing expertise to both maintain and treat the vascular system As a comprehensive book in this expanding area Vascular Engineering serves as a valuable resource for clinicians as well as academics and professionals working in biophysics biomedical engineering and nano and microrheology Graduate students in these subject areas will also find this volume insightful **Centrifugal**

Pumps Johann Friedrich Gülich, 2019-11-22 This handbook summarizes the research results on hydraulic problems in centrifugal pump design and describes the state of the art in a comprehensive way For this 4th edition current research results of practical relevance were included The selection and presentation of the material was oriented towards the needs of pump manufacturers system planners and pump operators Much space is devoted to understanding the physical relationships as essential knowledge for correct application The latter is supported by more than 160 diagrams and tables for calculation and problem diagnosis The book has been extensively updated New additions A separate chapter on Vibrations on vertical pumps Measurements of hydraulic exciter and impeller reaction forces Alternating stresses and fatigue fractures of impellers a critical study on the accuracy of numerical flow calculations of pumps Design of inlet housings and double spirals for multistage pumps *Net Positive Suction Head for Rotodynamic Pumps: A Reference Guide* EUROPUMP, 1999-10-22

Cavitation the result of insufficient pressure in a pump inlet is not only the major cause of loss in pump performance but also of reduced cost effectiveness This practical guide provides straight forward up to the minute advice on all aspects of cavitation and NPSH enabling the end user to improve all the factors involved Prepared by Europump European Association of Pump Manufacturers this book contains the results of years of research work and practical experience by leading European educational institutions and pump manufacturers to give a valuable unbiased guide which is applicable to all types of rotodynamic pumps and related systems *Meeting the Pump Users Needs* Sam Stuart, 2013-10-22 Meeting the Pump Users Needs is a documentation of the 12th International Pump Technical Conference Pump makers have always understood

that their equipment provides an essential service to the pump users Pumps have been designed and built to satisfy the needs of the user The main thrust of this book is to share between users specifiers and makers their knowledge and experiences leading to better understanding of what the user needs now and would like for the future and what the designer maker can provide now and may be able to offer for the future This book also describes an unusual method of calculating a head generated across a multistage pump when the impeller diameters are changed The method leads to significantly larger calculated changes of head than predicted from the conventional affinity law approach This text is a useful reference and source of information for engineering students and those conducting research on pump manufacturing

Engineering Reference Book on Energy and Heat VDI-Gesellschaft Energietechnik, 2013-11-11 Englische bersetzung der 13 Auflage der Wrmetechnischen Arbeitsmappe Wichtiges Arbeitsmittel fr wrmetechnische Berechnungen in Kraftwerken und anderen Wrmeenergiebetrieben in Verfahrenstechnik und Heiztechnik Die Arbeitsdiagramme ermoglichen eine mhelose und schnelle Ermittlung wichtiger wrmetechnischer Gren in Energiebetrieben Der Einflu einzelner Parameter und deren Zusammenhnge sind auf einen Blick zu erkennen Zustzlich sind die zugrundeliegenden Gleichungen fr Berechnungen mit dem Taschenrechner angegeben

Twort's Water Supply Malcolm J. Brandt, K. Michael Johnson, Andrew J. Elphinston, Don D. Ratnayaka, 2016-09-03 Twort's Water Supply Seventh Edition has been expanded to provide the latest tools and techniques to meet engineering challenges over dwindling natural resources Approximately 1.1 billion people in rural and peri urban communities of developing countries do not have access to safe drinking water The mortality from diarrhea related diseases amounts to 2.2 million people each year from the consumption of unsafe water This update reflects the latest WHO European UK and US standards including the European Water Framework Directive The book also includes an expansion of waste and sludge disposal including energy and sustainability and new chapters on intakes chemical storage handling and sampling Written for both professionals and students this book is essential reading for anyone working in water engineering Features expanded coverage of waste and sludge disposal to include energy use and sustainability Includes a new chapter on intakes Includes a new chapter on chemical storage and handling

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Table of Contents En Iso 5198

1. Understanding the eBook En Iso 5198
 - The Rise of Digital Reading En Iso 5198
 - Advantages of eBooks Over Traditional Books
2. Identifying En Iso 5198
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an En Iso 5198
 - User-Friendly Interface
4. Exploring eBook Recommendations from En Iso 5198
 - Personalized Recommendations
 - En Iso 5198 User Reviews and Ratings
 - En Iso 5198 and Bestseller Lists
5. Accessing En Iso 5198 Free and Paid eBooks
 - En Iso 5198 Public Domain eBooks
 - En Iso 5198 eBook Subscription Services
 - En Iso 5198 Budget-Friendly Options

6. Navigating En Iso 5198 eBook Formats
 - ePub, PDF, MOBI, and More
 - En Iso 5198 Compatibility with Devices
 - En Iso 5198 Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of En Iso 5198
 - Highlighting and Note-Taking En Iso 5198
 - Interactive Elements En Iso 5198
8. Staying Engaged with En Iso 5198
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers En Iso 5198
9. Balancing eBooks and Physical Books En Iso 5198
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection En Iso 5198
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine En Iso 5198
 - Setting Reading Goals En Iso 5198
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of En Iso 5198
 - Fact-Checking eBook Content of En Iso 5198
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
 - Integration of Multimedia Elements

- Interactive and Gamified eBooks

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