Kreisbumpen (Radal-, Habstal- und Anakreisspumpen)
Regeln für die Messung des hydraufischen Betriebsverhaltens
Präzisionsklasse

(ISO 5198 : 1987) Deutsche Fassung EN 5198 : 1998.

DIN EN ISO 5198

HC/8 23 080

Centrifugal, mixed flow and axial pumps – Code for hydraulic performance tests – Precision class (ISO 5198 : 1967); Cerman version EN 5198 : 1998. Pompes centrifuges, hélico-centrifuges et hélices – Code d'essais de fonctionnement hydraulique – Classe de précision (ISO 5198 : 1987);

Version allemande EN 5598 - 1008

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 Vocwort

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 (ICEN) ausgearbeiteten Norm EN ISO 5198.

Die Deutsche Fassung wurde unter Mitwirkung des nationalen Arbeitsausschusses AA 1 "Kreiselpumpen" und dessen Unterausschult UA 1.3 "Hydraulische Messung und Prüfung" des Fachbereiches Pumpen im Normenausschult 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 ahnlichem Inhalt hingewiesen:

ISO 31 siehe DIN 1313 ISO 2548 siehe DIN 1944 ISO 3534 siehe DIN 55350-33 ISO 3555 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

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

En Iso 5198

Malcolm J. Brandt,K. Michael Johnson,Andrew J. Elphinston,Don D. Ratnayaka

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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 conitoring 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 methos 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

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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 **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 Reference Book on Energy and Heat VDI-Gesellschaft Energietechnik, 2013-11-11 Englische bersetzung der 13 Auflage der Wrmetechnischen Arbeitsmappe Wichtiges Arbeitsmittel fr wrmetechnische Berechungen in Kraftwerken und anderen Wrmeenergiebetrieben in Verfahrenstechnik und Heiztechnik Die Arbeitsdiagramme ermglichen 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 Twort's Water Supply Malcolm J. Brandt, K. Michael Johnson, Andrew J. Elphinston, Don D. Taschenrechner angegeben 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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