

DIN 11851 Coupling

The so-called "dairy coupling" according DIN 11851 is the most applied screw coupling within the food industry. The round thread and the huge tolerances ensure that the coupling always closes. If necessary with an increased seal. This is a little old fashion, but it shows the usability and the popularity. The coupling is officially standardized with MW dimensions, but there are also types available with inches and ISO dimensions. A lot of equipment or instruments are provided with a coupling according DIN 11851.

Size ranges and material
volgens DIN 11851 en EN 10357.

According the norm you need the use forged materials, however there are a lot of cast materials available. SKS has both qualities available and can be specified with different article numbers.

Tolerances and specifications

DIN 405-1 and 2, DIN 11887, DIN ISO 2768-1, ISO 48, FDA and BGA.

Type and codes

Liner D, male thread C, nut F and seal G : internal Ra value < 0.8µm
Connection : weld (S), short (SK), expanding male part (M)

Seals

EPDM, FKM (Viton), HNBR, MVQ (silicone), NBR or PTFE (Teflon)

Pressure application (to 140°C)

DN10 – DN40	max. 40 bar
DN50 – DN100	max. 25 bar
DN125 – DN150	max. 16 bar
DN200	max. 10 bar

Certificates

The forged executions can be provided with a 3.1 certificate. Standard there is a certificate of the rough material, but the parts can also be delivered with a certificate according to WAZ 3.1 AD2000W2.

Peculiarities

EHECG marked if provided of a SKS seal in combination with the SKS liner and seal.



Q-Fitt

UNION COMPLETE FORGED AND CASTED DIN 11851

DN	A	B	C	D	E	Kg	304/NSR forged	316L/NSR forged	304/NSR casted	316L/NSR casted
10	34,0	38,0				0,122	14734001	14738001	-	-
15	34,0	44,0				0,159	14734002	14738002	-	-
20	36,0	54,0				0,279	14734003	14738003	-	-
25	45,0	63,0				0,385	14734005	14738005	14732005	14735005
32	51,0	70,0				0,486	14734007	14738007	14732007	14735007
40	53,0	78,0				0,587	14734009	14738009	14732009	14735009
50	57,0	92,0				0,800	14734011	14738011	14732011	14735011
65	65,0	112,0				1,238	14734013	14738013	14732013	14735013
80	75,0	127,0				1,735	14734015	14738015	14732015	14735015
100	89,0	148,0				2,744	14734017	14738017	14732017	14735017
125	70,0	178,0				3,550	14734019	14738019	-	-
150	76,0	210,0				5,620	14734020	14738020	-	-

Din 11851 Standard

Shaun Kennedy



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Handbook of Food Factory Design Christopher G. J. Baker, 2013-08-27 Food manufacturing has evolved over the centuries from kitchen industries to modern sophisticated production operations A typical food factory includes the food processing and packaging lines the buildings and exterior landscaping and the utility supply and waste treatment facilities As a single individual is unlikely to possess all the necessary skills required to facilitate the design the task will undoubtedly be undertaken by an interdisciplinary team employing a holistic approach based on a knowledge of the natural and biological sciences most engineering disciplines and relevant legislation In addition every successful project requires a competent project manager to ensure that all tasks are completed on time and within budget This Handbook attempts to compress comprehensive up to date coverage of these areas into a single volume It is hoped that it will prove to be of value across the food manufacturing community The multi disciplinary nature of the subject matter should facilitate more informed communication between individual specialists on the team It should also provide useful background information on food factory design for a wider range of professionals with a more peripheral interest in the subject for example process plant suppliers contractors HSE specialists retailers consultants and financial institutions Finally it is hoped that it will also prove to be a valuable reference for students and instructors in the areas of food technology chemical engineering and mechanical engineering in particular

Making Quality Cosmetics Alastair J Gilchrist, 2022-09-05 Cosmetics manufacture is a dynamic and vibrant industry with companies varying from the very small scale working in their own home to much larger enterprises With such variable companies there is the risk of equally variable quality in manufacturing The International Organization for Standards ISO provides guidelines on good manufacturing processes for the cosmetics industry However not everyone working in cosmetics has a scientific or engineering backgrounds and understanding and meeting the ISO requirements can be daunting Whether you are a small business just starting out or an established company looking to expand *Making Quality Cosmetics* will guide you through the requirements of the ISO standard Calling on more than 35 years of experience in the cosmetics sector the author covers every aspect of the manufacturing set up and process as well as discussing other regulations that may need to be considered especially in larger facilities With technical advice ranging from choosing equipment and raw materials to assessing and auditing contractors this book will help you make sure your products are of the highest quality

Foodborne Pathogens Clive de W Blackburn, Peter J McClure, 2009-06-30 Effective control of pathogens continues to be of great importance to the food industry The first edition of *Foodborne pathogens* quickly established itself as an essential guide for all those involved in the management of microbiological hazards at any stage in the food production chain This major edition strengthens that reputation with extensively revised and expanded coverage including more than ten new chapters Part one focuses on risk assessment and management in the food chain Opening chapters review the important topics of pathogen detection microbial modelling and the risk assessment procedure Four new

chapters on pathogen control in primary production follow reflecting the increased interest in safety management early in the food chain The fundamental issues of hygienic design and sanitation are also covered in more depth in two extra chapters Contributions on safe process design and operation HACCP and good food handling practice complete the section Parts two and three then review the management of key bacterial and non bacterial foodborne pathogens A new article on preservation principles and technologies provides the context for following chapters which discuss pathogen characteristics detection methods and control procedures maintaining a practical focus There is expanded coverage of non bacterial agents with dedicated chapters on gastroenteritis viruses hepatitis viruses and emerging viruses and foodborne helminth infections among others The second edition of Foodborne pathogens hazards risk analysis and control is an essential and authoritative guide to successful pathogen control in the food industry Strengthens the highly successful first edition of Foodborne pathogens with extensively revised and expanded coverage Discusses risk assessment and management in the food chain New chapters address pathogen control hygiene design and HACCP Addresses preservation principles and technologies focussing on pathogen characteristics detection methods and control procedures **Cleaning-in-Place** Adnan Y.

Tamime,2009-01-22 This is the third edition of the Society of Dairy Technology s highly successful volume on Cleaning in Place CIP Already a well established practice in dairy technology CIP has become increasingly relevant in the processed food industry during the last 10 15 years and the beverage industry has seen increased demands from customers regarding CIP verification and validation to provide improvements in plant hygiene and related efficiency The book addresses the principles of cleaning operations water supply issues and the science of detergents and disinfectants Aspects of equipment design relevant to ease of cleaning are covered in a special chapter as is the assessment of cleaning efficiency and the management of cleaning operations This third edition features for the first time a chapter on membrane cleaning a relatively new area requiring very specialised cleaning products and procedures Useful data on fluid flow dynamics and laboratory test methods are also included in separate chapters Authors have been selected from within industry allied suppliers and academia to provide a balanced leading edge assessment of the subject matter Cleaning in Place is directed at dairy scientists and technologists in industry and academia general food scientists and food technologists food microbiologists and equipment manufacturers **Food Safety Management** Frank Moerman,Jacques Kastelein,2013-11-01 To satisfy consumer demand

for fresh like additive free foods many food producers nowadays apply mild processing and conservation techniques that often shorten the shelf life of food may put food at risk and may compromise consumer health However food legislation developed in many countries around the globe requires that microbiologically safe food shall be produced by means of process equipment that minimizes the risk of contamination and that is easily cleanable Hence good hygienic engineering and design practice became one of the tools to reduce or exclude microbial e g pathogens chemical e g lubricating fluids cleaning chemicals or physical e g glass wood contamination of food Good hygienic equipment design also allows for the

elimination of food product held up within the process equipment that could deteriorate and affect product quality and may reduce the downtime required for an item of process equipment to be cleaned or maintained Although initially more expensive than poorly designed equipment hygienically designed equipment is more cost effective in the long term In response to the demand of food producers and global legislation manufacturers of food processing equipment are encouraged to develop and manufacture food processing equipment that is hygienically designed and easily cleanable This chapter gives guidance on the hygienic design selection of hygienic open and closed food processing equipment and maintenance of hygienic process equipment The Australian Grapegrower & Winemaker ,2001 *Seals and Sealing Handbook* Robert K. Flitney,2011-04-18 Wherever machinery operates there will be seals of some kind ensuring that the machine remains lubricated the fluid being pumped does not leak or the gas does not enter the atmosphere Seals are ubiquitous in industry the home transport and many other places This 5th edition of a long established title covers all types of seal by application static rotary reciprocating etc The book bears little resemblance to its predecessors and Robert Flitney has re planned and re written every aspect of the subject No engineer designer or manufacturer of seals can afford to be without this unique resource Wide engineering market Bang up to date Only one near competitor now outdated Food Protection and Security Shaun Kennedy,2016-10-26 Food Protection and Security Preventing and Mitigating Intentional and Unintentional Contamination of Food and Beverage presents the latest information on our need to protect our food supply from accidental contamination economically motivated adulteration and contamination with intent to harm bioterrorism or agro terrorism This book covers all three branches of food protection providing a comprehensive overview of the methods and strategy involved Part one covers the need for food protection looking at potential hazards in the production processing and supply chain Part two looks at detection methods for contaminants in food with the final section addressing food contamination incidents and prevention and response strategies Explores the need for food protection from natural disasters to contamination in food processing facilities Examines techniques used to detect contaminants in food such as microbiological testing and fingerprinting Provides key ways to address food contamination issues *Plant & Control Engineering* ,2002 *Industrial Pigging Technology* Gerhard Hiltcher,Wolfgang Mühlthaler,Jörg Smits,2006-12-13 Pigs are snug fitting plugs which are able to perform various maintenance tasks such as cleaning or removing deposits or blockages in pipe and pipeline systems from the inside A gaseous or liquid propellant is used to push the pig through the system This strategy avoids rinsing loss of valuable product provides reduction of adverse environmental impacts and gains high efficiency for less investment The book describes clearly and methodically the important basic equipment required for the planning and design of pigging units Many practical examples are shown for the operation of industrial pigging units drawn from the authors longtime experience in this technology In this form and scope the book is an unrivaled presentation of this technology Engineers and chemists who plan construct operate and maintain production plants in the chemical food

cosmetics pharmaceutical and petrochemical industry will find an invaluable source of advice and reference for pigging units

Prevention of the Biological Contamination of Food Thierry Bénézech,Christine Faille,2024-07-23 This book deals with risk management by focusing on microbiological risks Throughout the food chain foodstuff may be exposed to dangerous agents that can potentially affect its quality and thus the health of consumers A good knowledge of the strategies and means of control implemented along the food chain after the primary production stage is a necessary condition and a prerequisite for any further improvement but it is not sufficient Indeed in order to better prevent and therefore control these risks it is essential to study both the phenomena of surface contamination and those relating to the elimination of this contamination by cleaning and disinfection operations in order to know the main mechanisms Thanks to this a certain number of innovations can already be proposed new surfaces new materials and cleaning and disinfection procedures etc for future developments on an industrial or domestic scale

Bioprocess Engineering Bjorn K. Lydersen,Nancy A. D'Elia,Kim L. Nelson,1994-04-18 Divided into four sections the first and third reflect the fact that there are two types of equipment required in the plant one in which the actual product is synthesized or processed such as the fermentor centrifuge and chromatographic columns and the other that supplies support for the facility or process including air conditioning water and waste systems Part two describes such components as pumps filters and valves not limited to a certain type of equipment Lastly it covers planning and designing the entire facility along with requirements for containment and validation of the process

Developments in Soft Drinks Technology Leslie Frank Green,H. W. Houghton,1978 *Encyclopedia of Food Safety* ,2013-12-12 With the world s growing population the provision of a safe nutritious and wholesome food supply for all has become a major challenge To achieve this effective risk management based on sound science and unbiased information is required by all stakeholders including the food industry governments and consumers themselves In addition the globalization of the food supply requires the harmonization of policies and standards based on a common understanding of food safety among authorities in countries around the world With some 280 chapters the Encyclopedia of Food Safety provides unbiased and concise overviews which form in total a comprehensive coverage of a broad range of food safety topics which may be grouped under the following general categories History and basic sciences that support food safety Foodborne diseases including surveillance and investigation Foodborne hazards including microbiological and chemical agents Substances added to food both directly and indirectly Food technologies including the latest developments Food commodities including their potential hazards and controls Food safety management systems including their elements and the roles of stakeholders The Encyclopedia provides a platform for experts from the field of food safety and related fields such as nutrition food science and technology and environment to share and learn from state of the art expertise with the rest of the food safety community Assembled with the objective of facilitating the work of those working in the field of food safety and related fields such as nutrition food science and technology and environment this work covers the entire spectrum of food safety topics into one

comprehensive reference work The Editors have made every effort to ensure that this work meets strict quality and pedagogical thresholds such as contributions by the foremost authorities in their fields unbiased and concise overviews on a multitude of food safety subjects references for further information and specialized and general definitions for food safety terminology In maintaining confidence in the safety of the food supply sound scientific information is key to effectively and efficiently assessing managing and communicating on food safety risks Yet professionals and other specialists working in this multidisciplinary field are finding it increasingly difficult to keep up with developments outside their immediate areas of expertise This single source of concise reliable and authoritative information on food safety has more than ever become a necessity

An Engineer's Guide to Pipe Joints Graham Thompson,1998 Thompson mechanical engineering UMIST UK describes the different types of pipe joint that are available enabling an engineer to specify the correct pipe joint according to the required duty He discusses selection criteria then details specific types of joints Coverage includes metallic flanged joints gaskets welded metal joints screwed iron connections proprietary couplings and permanent and remarkable non metallic joints including plastic fiber reinforced plastic and glass The concluding chapter outlines quantitative reliability assessment methods and discusses how qualitative reliability judgements can be made For practicing design plant and maintenance engineers Distributed by ASME Annotation copyrighted by Book News Inc Portland OR

The Chemical Engineer ,2004 **Plant Flow Measurement and Control Handbook** Swapan Basu,2018-08-22 Plant Flow Measurement and Control Handbook is a comprehensive reference source for practicing engineers in the field of instrumentation and controls It covers many practical topics such as installation maintenance and potential issues giving an overview of available techniques along with recommendations for application In addition it covers available flow sensors such as automation and control The author brings his 35 years of experience in working in instrumentation and control within the industry to this title with a focus on fluid flow measurement its importance in plant design and the appropriate control of processes The book provides a good balance between practical issues and theory and is fully supported with industry case studies and a high level of illustrations to assist learning It is unique in its coverage of multiphase flow solid flow process connection to the plant flow computation and control Readers will not only further understand design but they will also further comprehend integration tactics that can be applied to the plant through a step by step design process that goes from installation to operation Provides specification sheets engineering drawings calibration procedures and installation practices for each type of measurement Presents the correct flow meter that is suitable for a particular application Includes a selection table and step by step guide to help users make the best decision Cover examples and applications from engineering practice that will aid in understanding and application

Food Processing Industry ,1982 *Flowmeters & Flow Measurement* P. Chattopadhyay,2006 It Gives Details Of All Kinds Of Flowmeters Through Operating Principle And Discusses Their Applications Plus Advantages And Disadvantages Besides It Presents The Techniques Of Installation Of Individual

Flowmeters And Flow Measurement Along With Numerical Calculations Selection Criteria And Flowmeter Selection Have Been Nicely Presented Chapter 7 Discusses Proprietary Flowmeter Their Specification Operating Principle Design Data A Discussion Of British Standard Bs7405 Is An Added Bonanza Presentation Is Good Language Is Simple Content Highlights Preface Flowmeters And Flow Measurement In Closed Pipes Flow Measurement In Open Channels Numerical Examples Principles Of Flowmeter Selections Selection Criteria Flowmeter Selection Specification Of Proprietary Flowmeter Installation Maintenance Miscellaneous Important Tips Appendix Index

Food Safety Management Veslemøy Andersen, Huub L. M. Lelieveld, Yasmine Motarjemi, 2023-03-28 Food Safety Management A Practical Guide for the Food Industry Second Edition continues to present a comprehensive integrated and practical approach to the management of food safety throughout the production chain While many books address specific aspects of food safety no other book guides you through the various risks associated with each sector of the production process or alerts you to the measures needed to mitigate those risks This new edition provides practical examples of incidents and their root causes highlighting pitfalls in food safety management and providing key insights into different means for avoiding them Each section addresses its subject in terms of relevance and application to food safety and where applicable spoilage The book covers all types of risks e g microbial chemical physical associated with each step of the food chain making it an ideal resource Addresses risks and controls at various stages of the food supply chain based on food type including a generic HACCP study and new information on FSMA Covers the latest emerging technologies for ensuring food safety Includes observations on what works and what doesn't on issues in food safety management Provides practical guidelines for the implementation of elements of the food safety assurance system Explains the role of different stakeholders of the food supply

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