

CIBSE GUIDE C

FLOW OF FLUIDS

1.14

TABLE C4.25 Velocity pressure loss factors for duct fittings — continued

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Notes to Table C4.25.

Duct angle

Where bends have through angles of less than 90°, the pressure loss factors may be presumed to vary in the proportion $(\theta/90)$ unless stated otherwise.

Changes of shape (contraction)

For tapered changes of shape where $\theta < 90^\circ$ and $A_1 = A_2$, the

Notes

Where straight ducts form splines, the straight duct sections between the conical part should be considered.

Application

The values for the pressure loss factors quoted here assume that the approaching velocity profile is regular. Any irregularity or disturbance may increase or decrease the loss.

Comments

For rectangular ducts, the hydraulic mean diameter is given by

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CIBSE Guide C: Reference Data Cibse, Cibse, 2007-06-07 Guide C Reference Data contains the basic physical data and calculations which form the crucial part of building services engineer background reference material Expanded and updated throughout the book contains sections on the properties of humid air water and steam on heat transfer the flow of fluids in pipes and ducts and fuels and combustion ending with a comprehensive section on units mathematical and miscellaneous data There are extensive and easy to follow tables and graphs

CIBSE Guide. Volume C Chartered Institution of Building Services Engineers, 1974

European Building Construction Illustrated Francis D. K. Ching, Mark Mulville, 2014-02-10 The first European edition of Francis DK Ching's classic visual guide to the basics of building construction For nearly four decades the US publication Building Construction Illustrated has offered an outstanding introduction to the principles of building construction This new European edition focuses on the construction methods most commonly used in Europe referring largely to UK Building Regulations overlaid with British and European while applying Francis DK Ching's clear graphic signature style It provides a coherent and essential primer presenting all of the basic concepts underlying building construction and equipping readers with useful guidelines for approaching any new materials or techniques they may encounter European Building Construction Illustrated provides a comprehensive and lucid presentation of everything from foundations and floor systems to finish work Laying out the material and structural choices available it provides a full understanding of how these choices affect a building's form and dimensions Complete with more than 1000 illustrations the book moves through each of the key stages of the design process from site selection to building components mechanical systems and finishes Illustrated throughout with clear and accurate drawings that effectively communicate construction processes and materials Provides an overview of the mainstream construction methods used in Europe Based around the UK regulatory framework the book refers to European level regulations where appropriate References leading environmental assessment methods of BREEAM and LEED while outlining the Passive House Standard Includes emerging construction methods driven by the sustainability agenda such as structural insulated panels and insulating concrete formwork Features a chapter dedicated to construction in the Middle East focusing on the Gulf States

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leading to sketches that become alive and an alternative economics for achieving the sustainability paradigm The book features student design work from a Master s programme run by the author and their design speculation for a human settlement on Mars Tasks for simple simulation experiments are available for the majority of topics providing the material for classroom exercise and giving the reader an easy introduction into the field Extended new case studies of zero carbon buildings are featured in the book including schemes from Japan China Germany Denmark and the UK and provide the reader with an enhanced design toolbox to stimulate their own design thinking *Building Services Journal* ,2007

Air Conditioning Systems Roger Colby Legg,1991 The efficient use of energy resources both for economic and environmental reasons will remain a top priority for the foreseeable future Roger Legg s comprehensive treatment of air conditioning systems is devoted to ensuring that when installed they not only meet their design criteria but maximize energy efficiency

Engineer's Year-book of Formulae, Rules, Tables, Data & Memoranda ,1999 *Schools' Environmental Assessment Method (SEAM)*. Great Britain. Department for Education and Employment. Architects & Building Branch,1996 With inserted Certificate of achievement 1p [American Book Publishing Record](#) ,2002 [Standards in the Museum Care of Musical Instruments](#) 1995 Great Britain. Museums and Galleries Commission,1995 **Building in Steel 1991** ,1991

Kempe's Engineers Year-book ,2002 **Conference Proceedings, Green Building Challenge '98** Canada. Natural Resources Canada,1998 **Information Sources in Architecture and Construction** Valerie J. Nurcombe,1996 The new edition first 1983 comprises 24 chapters each written by an expert in the field who describes sources and in addition provides instructions in methodology and hints on keeping up with advances in information Coverage includes architectural history conservation contracts and liability

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Electrical Engineer's Reference Book Gordon Rees Jones,1993 The Electrical Engineer s Reference Book 15th edition long established as an ideal reference has been revised and includes complete rearrangement to take in chapters on new topics and regroup the subjects covered for easy access to information *Architectural Science Review* ,2001

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