

MORE ON WHAT IS CAVITATION?

Jacques Chaurette p. eng.,

www.lightmypump.com

February 2003

Cavitation begins as the formation of vapor bubbles at the impeller eye due to low pressure. The bubbles form at the position of lowest pressure at the pump inlet (see Figure 1), which is just prior to the fluid being acted upon by the impeller vanes, they are then rapidly compressed. The compression of the vapor bubbles produces a small shock wave that impacts the impeller surface and pits away at the metal creating over time large eroded areas and subsequent failure. The sound of cavitation is very characteristic and resembles the sound of gravel in a concrete mixer. You can hear this sound by downloading the cavitation sound file in mp3 format from the lightmypump web site www.lightmypump.com, go to the DOWNLOADS page.

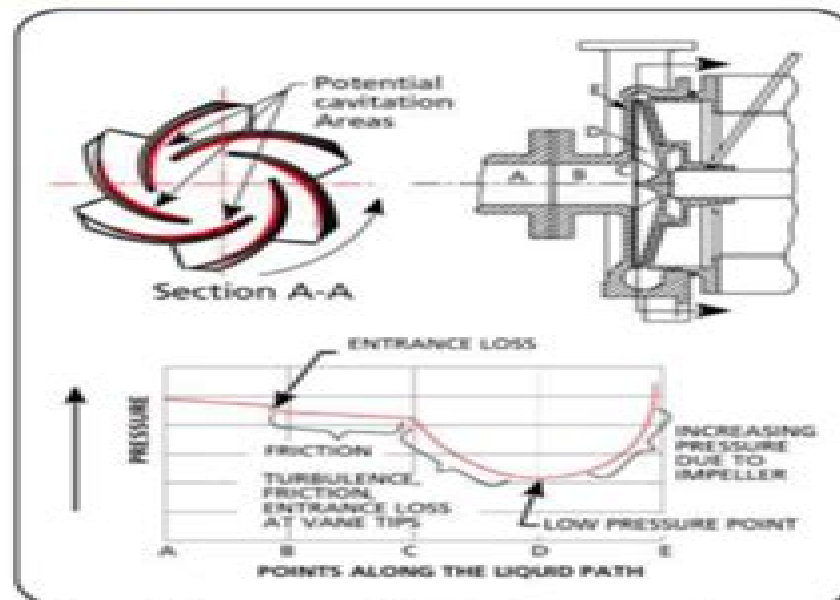


Figure 1 Pressure profile at the pump entrance.

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Walter S. Cunnan



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Cavitation And The Centrifugal Pump Edward Grist,1998-06-01 This practical reference describes the occurrence of cavitation in a centrifugal pump and how unacceptable cavitation can be avoided It explains cavitation problems such as hydraulic performance loss hydrodynamically or thermodynamically induced surging and cavitation erosion General guidelines for acceptable operation conditions such as net positive suction head NPSH margins and minimum flowrates are presented along with evidence and logic for these proposed guidelines The Drag of Cavitating Cylinders Arranged in a Straight Grid Jean Jacques Geist,1959 Cavitation and Multiphase Flow Phenomena Frederick G. Hammitt,1980

Experimental and Theoretical Investigation of Cavitation in Water J. Ackeret,1936 *Effect of Fluid Temperature on the Cavitation Performance of a High Hub-tip Ratio Axial Flow Pump in Water to 250°F (394 K)* Walter S. Cunnan,1969 Fluid temperature effect on cavitation performance of axial flow pump *Avoidance of Cavitation Damage* Wolfgang Tillner,Horst Fritsch,Rudolf Kruft,Wilfried Lehmann,Hartmut Louis,Gunther Masendorf,2005-06-24 Under certain conditions liquids can change to the vapour phase this is cavitation and it imposes serious limitations on pumps and pipelines if damage is to be avoided Improved understanding of pump cavitation in recent years has enabled a limited amount to be permitted to obtain the maximum possible amount of suction but in these circumstances it is very important to have some knowledge of the relationship between the intake operating conditions and the cavitation field and between the amount of cavitation and the extent of any material damage which can be expected The Avoidance of Cavitation Damage is concerned with the extensive field referred to by the term cavitation which involves industrial activities and is of immense economic significance At its simplest it is about damage limitation and damage avoidance in pumps and their installations and it is the first book made available in the English language which has this specific aim It deals with conventional rotodynamic and self priming side channel pumps as well as both reciprocating and rotary positive displacement pumps The Avoidance of Cavitation Damage can be wholeheartedly recommended to all practising engineers concerned with the design or use of pumps indeed it should become a standard reference work for all concerned with pumps and their use **Cavitation and Associated Phenomena** Dmitry Biryukov,Denis Gerasimov,Eugeniy Yurin,2022-04-27 Cavitation is a dangerous process which destroys objects in a fluid Scientific description of this multifaceted phenomenon is based on almost every area of physics and many interesting effects are connected with cavitation The most intriguing of them is sonoluminescence the light emitted from a cavitating fluid This book presents a full scale description of cavitation from the basic thermodynamic principles to special phenomena associated with this complex process from the dynamics of a single gas cavity to the catastrophic macroscopic manifestations from the domestic observations to the nuances of X ray spectroscopic research *Numerical Simulation and Analysis of Cavitation Flows in a Double Suction Centrifugal Pump* ,2015 **Cavitation and Bubble Dynamics** Phoivos Koukouvini,Manolis Gavaises,2021-09-24 Cavitation and Bubble Dynamics Fundamentals and Applications examines the

latest advances in the field of cavitation and multiphase flows including associated effects such as material erosion and spray instabilities This book tackles the challenges of cavitation hindrance in the industrial world while also drawing on interdisciplinary research to inform academic audiences on the latest advances in the fundamentals Contributions to the book come from a wide range of specialists in areas including fuel systems hydropower marine engineering multiphase flows and computational fluid mechanics allowing readers to discover novel interdisciplinary experimentation techniques and research results This book will be an essential tool for industry professionals and researchers working on applications where cavitation hindrance affects reliability noise and vibrations Covers a wide range of cavitation and bubble dynamics phenomena including shock wave emission jetting and luminescence Provides the latest advice about applications including cavitation tunnels cavitation testing flow designs to avoid cavitation in pumps and other hydromachinery and flow lines Describes novel experimental techniques such as x ray imaging and new computational techniques

Principles of Cavitation and Bleeding System Applications M. A. Zaher, 2011-10-16 Discuss the current state of theoretical and experimental knowledge of various aspects of cavitating flows in pumps propellers and hydro turbines Discuss the developments in avoiding cavitation in single phase and multi phase pumping

Cavitation in real liquids: proceedings, ed Symposium on Cavitation in Real Liquids, Warren, Mich., 1962, Robert Davies, **Cavitation & Multiphase Flow 1994** American Society Of Mechanical Engineers, 1994-12-01

Effect of Pulsations on Cavitation in Reciprocating Pump Systems J. C. Wachel, J. D. Tison, S. M. Price, 1989

The Top Books of the Year What Is Cavitation Jacques Chaurette The year 2023 has witnessed a noteworthy surge in literary brilliance, with numerous captivating novels enthralling the hearts of readers worldwide. Lets delve into the realm of bestselling books, exploring the captivating narratives that have charmed audiences this year. The Must-Read : Colleen Hoover's "It Ends with Us" This poignant tale of love, loss, and resilience has gripped readers with its raw and emotional exploration of domestic abuse. Hoover expertly weaves a story of hope and healing, reminding us that even in the darkest of times, the human spirit can succeed. Uncover the Best : Taylor Jenkins Reids "The Seven Husbands of Evelyn Hugo" This intriguing historical fiction novel unravels the life of Evelyn Hugo, a Hollywood icon who defies expectations and societal norms to pursue her dreams. Reids captivating storytelling and compelling characters transport readers to a bygone era, immersing them in a world of glamour, ambition, and self-discovery. What Is Cavitation Jacques Chaurette : Delia Owens "Where the Crawdads Sing" This captivating coming-of-age story follows Kya Clark, a young woman who grows up alone in the marshes of North Carolina. Owens crafts a tale of resilience, survival, and the transformative power of nature, captivating readers with its evocative prose and mesmerizing setting. These popular novels represent just a fraction of the literary treasures that have emerged in 2023. Whether you seek tales of romance, adventure, or personal growth, the world of literature offers an abundance of compelling stories waiting to be discovered. The novel begins with Richard Papen, a bright but troubled young man, arriving at Hampden College. Richard is immediately drawn to the group of students who call themselves the Classics Club. The club is led by Henry Winter, a brilliant and charismatic young man. Henry is obsessed with Greek mythology and philosophy, and he quickly draws Richard into his world. The other members of the Classics Club are equally as fascinating. Bunny Corcoran is a wealthy and spoiled young man who is always looking for a good time. Charles Tavis is a quiet and reserved young man who is deeply in love with Henry. Camilla Macaulay is a beautiful and intelligent young woman who is drawn to the power and danger of the Classics Club. The students are all deeply in love with Morrow, and they are willing to do anything to please him. Morrow is a complex and mysterious figure, and he seems to be manipulating the students for his own purposes. As the students become more involved with Morrow, they begin to commit increasingly dangerous acts. The Secret History is a brilliant and thrilling novel that will keep you wondering until the very end. The novel is a warning tale about the dangers of obsession and the power of evil.

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