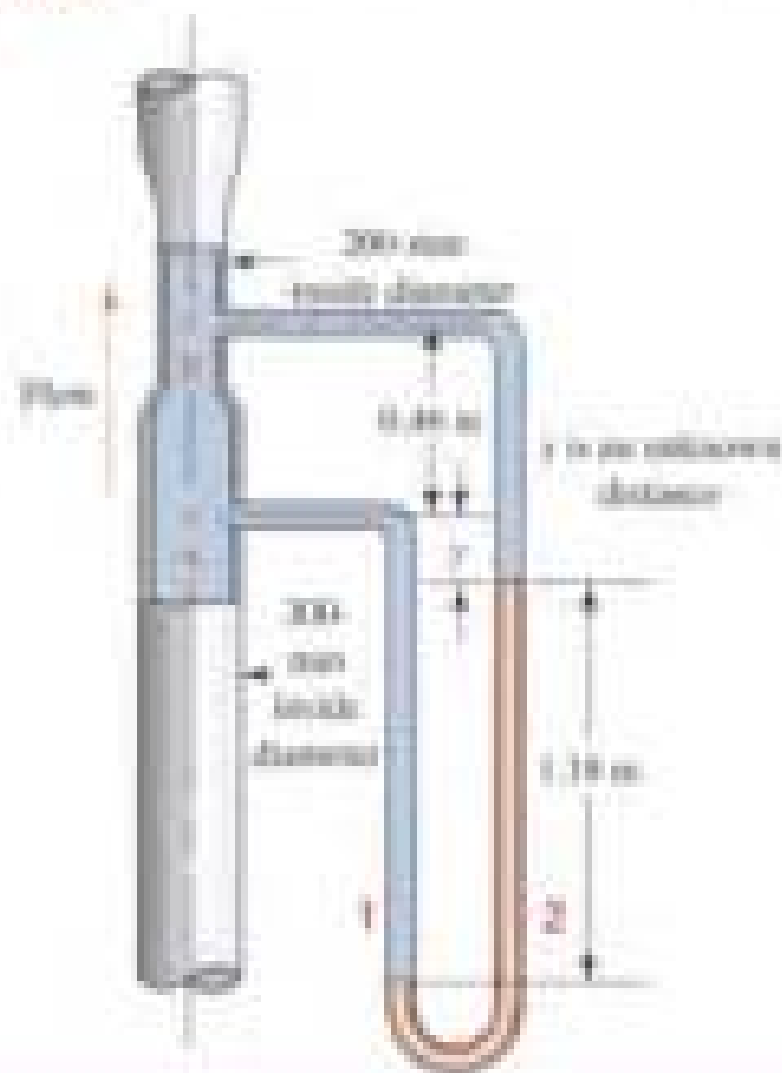


Example Problem: Venturi meter system.

The venturi meter shown in figure below carries water at 60°C. The inside dimensions are machined to the sizes shown in figure. The specific gravity of the gage fluid in the manometer is 1.25. Calculate the velocity of flow at section A and the volume flow rate of water.



$$P_1 = P_2 + \gamma_w h + (1.25)$$

$$P_2 = P_1 + \gamma_w h + \gamma = 1.25 \gamma_w (0.18)$$

$$\text{But, as } P_1 = P_2$$

Therefore from the above equations,  $P_1 = P_2$  can be found. Complete the rest of the solution.

Note: A venturi meter is a device that uses a constriction in a flow system to measure the velocity of flow.

# Vertical Venturi Meter Problem

**R. K. Bansal**



### **Vertical Venturi Meter Problem:**

**Fluid Mechanics** Carl Schaschke, 2005 This is a collection of problems and solutions in fluid mechanics for students of all engineering disciplines The text is intended to support undergraduate courses and be useful to academic tutors in supervising design projects

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**A Textbook of Fluid Mechanics and Hydraulic Machines** R. K. Bansal, 2004-12-31 Chapter 1 Properties of Fluids Chapter 2 Pressure and Its Measurement Chapter 3 Hydrostatic Forces on Surfaces Chapter 4 Buoyancy and Floatation Chapter 5 Kinematics of Flow and Ideal Flow Chapter 6 Dynamics of Fluid Flow Chapter 7 Orifices and Mouthpieces Chapter 8 Notches and Weirs Chapter 9 Viscous Flow Chapter 10 Turbulent Flow Chapter 11 Flow Through Pipes Chapter 12 Dimensional and Model Analysis Chapter 13 Boundary Layer Flow Chapter 14 Forces on Sub merged Bodies Chapter 15 Compressible Flow Chapter 16 Flow in Open Channels Chapter 17 Impact of Jets and Jet Propulsion Chapter 18 Hydraulic Machines Turbines Chapter 19 Centrifugal Pumps Chapter 20 Reciprocating Pumps Chapter 21 Fluid System Objective Type Questions Appendix Subject Index

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*Fluid Mechanics (Vol. 2)* Shiv Kumar, 2022-07-21 This book has been written for the introductory course of fluid mechanics for students at the undergraduate and postgraduate levels It provides the fundamental knowledge allowing students in engineering and natural sciences to enter fluid mechanics and its applications in various fields where fluid flows need to be dealt with Volume 2 of this book contains ten chapters to help build the basic understanding of the subject matter It adequately addresses the more complex and advanced issues on fluid mechanics in simplest of manners The book covers laminar flow viscous flow turbulent flow boundary layer theory flow through pipe pipe flow measurement orifices and mouthpieces flow past submerged bodies flow through open channels notches and weirs and compressible flows The concepts are supported by numerous solved examples and multiple choice questions to aid self learning in students The book also contains illustrated diagrams for better understanding of the concepts The book is extremely useful for the undergraduate and postgraduate students of engineering and natural sciences

**The John Zink Combustion Handbook** Jr., Charles E. Baukal, 2001-03-27 Despite the length of time it has been around its importance and vast amounts of research combustion is still far from being completely understood Industrial applications of combustion add environmental cost and fuel consumption issues to its fundamental complexity and

the process and power generation industries in particular present their o

**Engineering Fluid Mechanics** Donald F. Elger, Barbara A. LeBret, Clayton T. Crowe, John A. Roberson, 2020-07-08 Engineering Fluid Mechanics guides students from theory to application emphasizing critical thinking problem solving estimation and other vital engineering skills Clear accessible writing puts the focus on essential concepts while abundant illustrations charts diagrams and examples illustrate complex topics and highlight the physical reality of fluid dynamics applications Over 1 000 chapter problems provide the deliberate practice with feedback that leads to material mastery and discussion of real world applications provides a frame of reference that enhances student comprehension The study of fluid mechanics pulls from chemistry physics statics and calculus to describe the behavior of liquid matter as a strong foundation in these concepts is essential across a variety of engineering fields this text likewise pulls from civil engineering mechanical engineering chemical engineering and more to provide a broadly relevant immediately practicable knowledge base Written by a team of educators who are also practicing engineers this book merges effective pedagogy with professional perspective to help today s students become tomorrow s skillful engineers

**Fluid Mechanics Through Problems** R. J. Garde, 2006 This Is An Outcome Of Authors Over Thirty Years Of Teaching Fluid Mechanics To Undergraduate And Postgraduate Students The Book Is Written With The Purpose That Through This Book Student Should Appreciate The Strength And Limitations Of The Theory And Also Its Potential For Application In Solving A Variety Of Engineering Problems Of Practical Importance It Makes Available To The Students Appearing For Diploma And Undergraduate Courses In Civil Chemical And Mechanical Engineering A Book Which Briefly Introduces The Necessary Theory Followed By A Set Of Descriptive Objective Questions In Seventeen Chapters The Book Covers The Broad Areas Of Fluid Properties Kinematics Dynamics Dimensional Analysis Laminar Flow Boundary Layer Theory Turbulent Flow Forces On Immersed Bodies Open Channel Flow Compressible And Unsteady Flows And Pumps And Turbines

**1000 Solved Problems in Classical Physics** Ahmad A. Kamal, 2011-03-18 This book basically caters to the needs of undergraduates and graduates physics students in the area of classical physics specially Classical Mechanics and Electricity and Electromagnetism Lecturers Tutors may use it as a resource book The contents of the book are based on the syllabi currently used in the undergraduate courses in USA U K and other countries The book is divided into 15 chapters each chapter beginning with a brief but adequate summary and necessary formulas and Line diagrams followed by a variety of typical problems useful for assignments and exams Detailed solutions are provided at the end of each chapter

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**NASA Scientific and Technical Reports** United States. National Aeronautics and Space Administration Scientific and Technical Information Division, 1968

**A Selected Listing of NASA Scientific and Technical Reports** United States. National Aeronautics and Space Administration. Scientific and Technical Information Division, 1969

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*Fundamentals of Physics, Volume 1* David Halliday, Robert Resnick, Jearl Walker, 2017-12-11 The first volume of a two volume text that helps students understand physics concepts and scientific problem solving Volume 1 of the Fundamentals of Physics 11th Edition helps students embark on an understanding of physics This loose leaf text covers a full range of topics including measurement vectors motion and force It also discusses energy rotation equilibrium gravitation and oscillations as

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