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Static Head

For ASME Section VIII Div.1, Design pressure of vessel shall include Static Head.

Static Head = Pressure resulting from the Weight of Liquid

- Acting on internal of the vessel
- Static Liquid Height → Greater The Pressure

Static fluid pressure does not depend on the shape, size, area, or surface area of the body.

$$Pressure = \frac{Weight}{Area} = \frac{\rho \cdot V}{A} = \rho \cdot h$$

Weight = $\rho \cdot V = \rho \cdot A \cdot h$

Task 2 Print

Thermodynamics

Thermodynamics is the branch of physics concerned with a system's energy and work. Scientists became interested in thermodynamics back in the eighteenth and nineteenth centuries, with the birth of the Industrial Revolution. Use online or print resources to answer the following questions about the importance of thermodynamics. Cite at least three authoritative resources to support your responses.

Part A

You've learned about the laws of thermodynamics. Using examples, explain why the first and second laws are significant for living organisms.

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© At Air Force Academy, the design pressure of a vessel shall include static head. Static head is the pressure resulting from the weight of liquid acting on the internal of the vessel. Static liquid height is greater than the pressure. Static fluid pressure does not depend on the shape, size, area, or surface area of the body. Pressure = Weight / Area = (rho * V) / A = rho * h. Weight = rho * V = rho * A * h.

Thermodynamics is the branch of physics concerned with a system's energy and work. Scientists became interested in thermodynamics back in the eighteenth and nineteenth centuries, with the birth of the Industrial Revolution. Use online or print resources to answer the following questions about the importance of thermodynamics. Cite at least three authoritative resources to support your responses.

Part A

You've learned about the laws of thermodynamics. Using examples, explain why the first and second laws are significant for living organisms.

Possible Answers: Correct answer: Explanation: We can use the 1st law of thermodynamics to solve this problem; We are given the heat applied to the system, so we need to calculate the work done by the system. Explanation: In an isothermal process, there are two possibilities: the gas is expanding or the gas is being compressed. The second law of thermodynamics says that all spontaneous processes must lead to an increase of entropy in the universe. A is the enthalpy equation. What is the mass of the rod? Possible Answers: There's not enough information to determine the temperature change Correct answer: Explanation: The equation for temperature change given applied heat is A. The only other answer choice left states that energy and mass are interconvertible. If the gas is expanding, the gas is doing work and therefore needs heat A in order to remain at constant temperature (which is the definition of an isothermal process). A refers to the second law of thermodynamics. Work is not being A done on the gas, so that is the correct answer. Please follow these steps to file a notice: You must include the following: A physical or electronic signature of the copyright owner or a person authorized to act on their behalf; An identification of the copyright claimed to have been infringed; A description of the nature and exact location of the content that you claim to infringe your copyright, in \ sufficient detail to permit Varsity Tutors to find and positively identify that content; for example we require a link to the specific question (not just the name of the question) that contains the content and a description of which specific portion of the question eAAA an image, a link, the text, etc eAAA your complaint refers to; Your name, address, telephone number and email address; and A statement by you: (a) that you believe in good faith that the use of the that you claim to infringe your copyright is not authorized by law, or by the copyright owner or such ownersAAA agent, (b) that all of the information contained in your Infringement Notice is accurate, and (c) under penalty of perjury, that you are either the copyright owner or a person authorized to act on their behalf. Since the change in internal energy is 0, we can rewrite the

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