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# Nab Study Guide

**Michael Rajnik**

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web a fluid container sealed by a piston is open at the top in this case an external axial force  $F_a$  is mandatory for equilibrium of the overall piston and cylinder assembly a bicycle pump is a common example if  $A_i$  is the internal circular area then a free body of either piston or cylinder end must have  $F_a = p_i A_i$  and there is no need for axial wall stresses to

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web the classic equation for hoop stress created by an internal pressure on a thin wall cylindrical pressure vessel is  $\sigma = \frac{p d}{2 t}$  for the hoop stress thin wall pressure vessel hoop stress calculator where  $p$  is the internal pressure  $t$  is the wall thickness

r is the inside radius of the cylinder

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web oct 9 2023 the development of the manufacturing process of thin walled and thick mounted cylinders which can largely improve the storage efficiency of hydrogen has also attracted considerable attention

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web when a thin walled tube or cylinder is subjected to internal pressure a hoop and longitudinal stress are produced in the wall for the thin walled equations below the wall thickness is less than 1/20 of tube or cylinder diameter hoop circumferential stress

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