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Lifting Analysis of Horizontal pressure vessel using two lifting lugs in ANSYS, Part-1 - Duration: 40:42. Grasp Engineering 6,565 views

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Procedure 4-9: Seismic Design – Vessel on Conical Skirt Nomenclature A  $\frac{1}{4}$  ASME Code strain factor, dimensionless  $A_b$   $\frac{1}{4}$  Area of base plate supported on steel, in 2 At  $\frac{1}{4}$  Area required for one anchor bolt, in 2 AS  $\frac{1}{4}$  Area of shear band, LS XtS, in 2 BP  $\frac{1}{4}$  Allowable bearing pressure, PSI DO  $\frac{1}{4}$  OD of vessel shell, in DSK  $\frac{1}{4}$  OD of skirt at base plate, in

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**Pressure Vessel Design Manual, Moss, Dennis R., Basic ...**

Dennis R. Moss, Michael Basic, in Pressure Vessel Design Manual (Fourth Edition), 2013. Membrane Stress Analysis. Pressure vessels commonly have the form of spheres, cylinders, cones, ellipsoids, tori, or composites of these.

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Here  $D_i$  = inner diameter of the pressure Vessel  $t$  = thickness of the pressure vessel Hoop Stress ?  $h$

$\sigma = \frac{pd}{2t} = \frac{3.5 \times 3500}{2 \times 45} = 136.11 \text{ N/mm}^2$ . This value is far away from the allowable stress value of 170 MPa for the given pressure vessel. So the design is safe from theoretical calculations. Dished end thickness calculations:

#### Pressure Vessel Design Manual

Pressure Vessel Design Manual (4th Edition) Details View All Editions Pressure vessels are closed containers designed to hold gases or liquids at a pressure substantially different from the ambient pressure.

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42 Pressure Vessel Design Manual. insulation support rings. Vacuum stiffeners, if combined with other stiffening rings, such as cone reinforcement rings or saddle stiffeners on horizontal vessels, must be designed for the combined condition, not each independently. If at all possible, stiffeners should always clear

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The design pressure of any pressurised container is the difference between the internal and external pressure. For example; if a pressure vessel is exposed to an internal pressure of 100psi and an external pressure of 35psi, the design pressure for the vessel will be an internal pressure of 65psi (65 = 100 - 35)

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