

# The Core Of Mans Spirit Comes From Experience

**Christian G. Meyer**

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web 120 3 mpa inner cylinder  $\sigma_t$  365 to 244 mpa  $\sigma_r$  0 to 120 3 mpa outer cylinder  $\sigma_t$  256 to 135 mpa  $\sigma_r$  120 3 to 0 mpa maximum internal pressure 395 mpa 5 a cylinder with closed ends has outer diameter d and a wall thickness t 0 1d determine the age error involved in using thin wall cylinder

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web in chapter 2 we examined the stresses in thin walled cylinders subjected to internal pressure the assumption of

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web a fluid container sealed by a piston is open c 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 c must have f a p i a i and there is no need for axial wall stresses to

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$\sigma_{\theta} = \frac{p d m}{2 t}$  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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