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# Ridin That Strawberry Roan

**Rachel Sandford**



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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  
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web consider now a simple spherical vessel of radius  $r$  and wall thickness  $b$  such as a round the accuracy of this result depends on the vessel being thin walled i.e.  $r \gg b$  at the inner cylinder now expands according to the difference  $p - p_c$  while

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web a fluid container sealed by a piston is open at one end in this case an external axial force  $F$  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  $F = p_i A_i$  and there is no need for axial wall stresses to

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