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**OWNER'S MANUAL-WORKSHOP MANUAL**

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# Lr4 Workshop Manual

**Martynnn Randall,Robert Jex**



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web a fluid container sealed by a piston is open to the atmosphere 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 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  $\frac{1}{20}$  of tube or cylinder diameter hoop circumferential stress

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web apr 5 2021 this experiment provides the insight on thin walled pressure cylinders where thickness is less than or equal to  $\frac{1}{10}$  of the internal diameter when axial and biaxial load is applied on it