



## COURSE #4

# SMARTFRENCH

## INTERMEDIATE/ADVANCED CONVERSATION PRACTICE



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**C Edward Wall**



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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 sep 25 2023 a thin cylinder is defined as a cylinder with a diameter that is substantially bigger than its wall thickness in other words a thin mechanical cylinder or vessel has a wall thickness that is less than 1/20 of its internal diameter

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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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