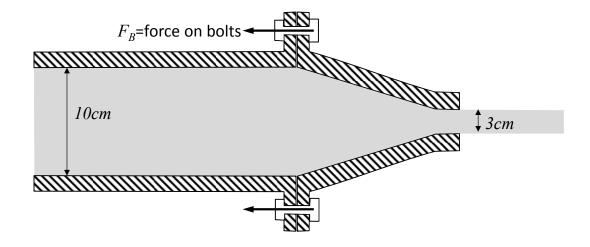
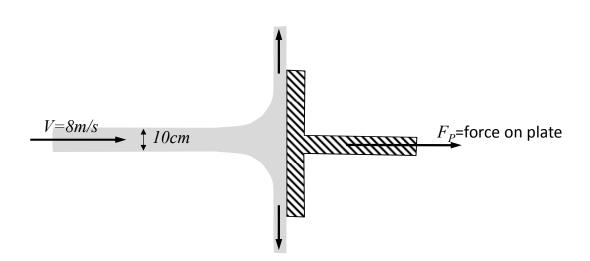
FLUIDS I Example sheet 4: Control Volume Analysis

Hints 1: Diagrams

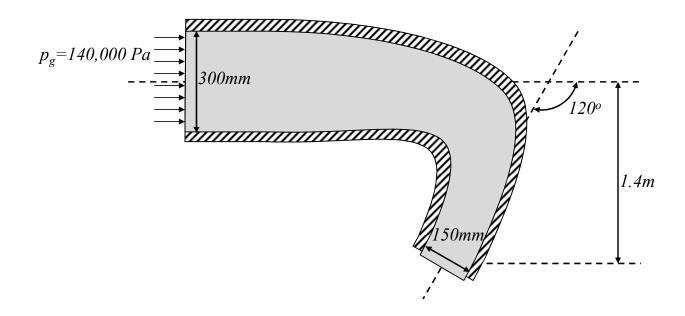
Q1

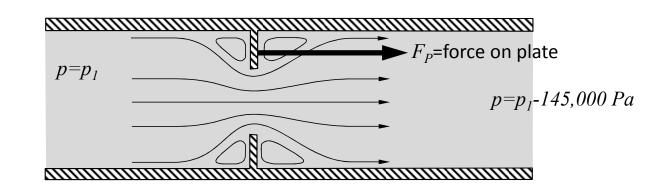


Q2



Q3





 $V_{air}=48km/h$ $V_{air}=48km/h$ V=240km/h F=10300NBody of aircraft neglected Idealised shaft cuts CV

Apply a Galilean transformation so that the propeller is stationary (the observer moves at a speed of 240 km/h)