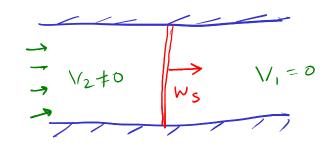
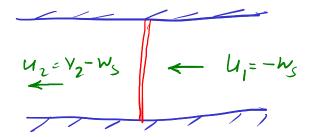


Snock Reference frame





Q:- What happens to the thermodynamic quantities as g change the reference frame?

In the Shock reference frame, u,= M, a, Also, Ws = - Ui | WS1 = |M1 a1 | W = M, 9, Mow 1 $\frac{P_2}{P_1} = 1 + \frac{2r}{r+1} (M_1^2 - 1)$ $3 M_1^2 = \frac{YH}{1} \left(\frac{P_2}{P_1} - 1 \right) + 1$ $= \frac{(\gamma+1)}{2\gamma} \left(\frac{\rho_2}{\rho_1}\right) + \frac{(\gamma-1)}{2\gamma}$ $W_{S} = a_{1} \left[\frac{Y_{11}}{2Y} \left(\frac{P_{2}}{P_{1}} \right) + \frac{Y_{-1}}{2Y} \right]$