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Solutions Manual. 0000376 m^3/s . (Z-S) V. (5-4) gives area for the 2 valves = $(1.580 \times 10^{-4} \text{ m}^2)$ or =
= (a) # of droplets = $(0.001 \text{ m}^3/\text{s}) / (1.580 \times 10^{-4} \text{ m}^2) = 632.9$ from above with difficulty (e) with proper design valves could be fit
into combustion chamber (5-14) mass of fuel in 1 injection from Example Problem 5-4 $\text{m} = 0.001 \text{ kg}$.

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An internal combustion engine (ICE) is a heat engine where the combustion of a fuel occurs with an oxidizer (usually air) in a combustion chamber that is an integral part of the working fluid flow

circuit. In an internal combustion engine, the expansion of the high-temperature and high-pressure gases produced by combustion applies direct force to some component of the engine.

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