## Fluid Mechanics

## Fluid properties (Problems and Examples)

Q1/ Express the following quantities from GB to SI units.

#### (a) Velocity

$$10.2 \frac{m_{in}}{m_{in}} = (10.2 \frac{m_{in}}{m_{in}})(2.540 \times 10^{-2} \frac{m}{m_{in}})(\frac{1 m_{in}}{60 s})$$

$$= 4.32 \times 10^{-3} \frac{m}{s} = 4.32 \frac{m_{in}}{s}$$

#### (b) Mass

#### (c) Force

#### (d) Acceleration

#### (e) Viscosity (dynamic)

$$0.0234 \frac{16.5}{ft^2} = \left(0.0234 \frac{16.5}{ft^2}\right) \left(4.788 \times 10 \frac{\frac{N.5}{m^2}}{\frac{16.5}{ft^2}}\right)$$

$$= 1.12 \frac{N.5}{m^2}$$

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**Richard Bailey** 



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