

Flow Formulas

$$1 \text{ gal} = 231 \text{ in}^3$$

$$\text{Cylinder (in}^3\text{)} = \text{Stroke} \times \text{Effective Area}$$

$$\text{Cylinder speed (ft/min)} = \frac{\text{gpm} \times 19.25}{\text{Effective Area (in}^2\text{)}}$$

$$\text{gpm (theoretical)} = \frac{\text{Pump rpm} \times (\text{in}^3/\text{rev})}{231}$$

$$\text{Volume required (gpm)} = \frac{\text{Volume displaced} \times 60}{\text{Time (s)} \times 231}$$

$$\text{Volume required (Hyd. motor)} = \frac{\text{rpm} \times \text{disp. (in}^3\text{)}}{231}$$

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