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Pump Affinity Laws for Speed Change

$$\frac{Q_1}{Q_2} = \frac{N_1}{N_2}$$

$$\frac{H_1}{H_2} = \left[\frac{N_1}{N_2}\right]^2$$

$$\frac{BHP_1}{BHP_2} = \left[\frac{N_1}{N_2}\right]^3$$

Chemical Engineering Site