VANE DISPLACEMENT CALCULATION

The volumetric displacement of a vane pump or motor can be approximated by measurement of the internal parts and substituting the values in the following formula:

\[ V = 12 \times w \times \frac{(L + d) \times (L - d)}{4} \]

Where

- \( V \) = displacement in in\(^3\)/rev
- \( w \) = rotor width in inches
- \( d \) = shortest distance across eccentric bore in inches
- \( L \) = longest distance across eccentric bore in inches

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