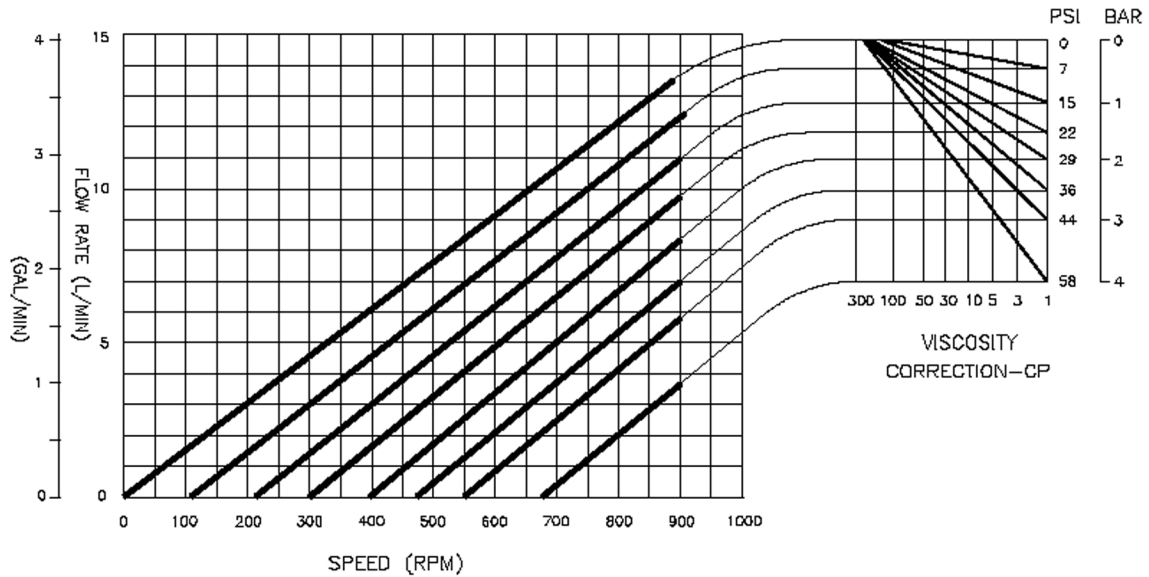# Rotary Lobe Pump AccuLab
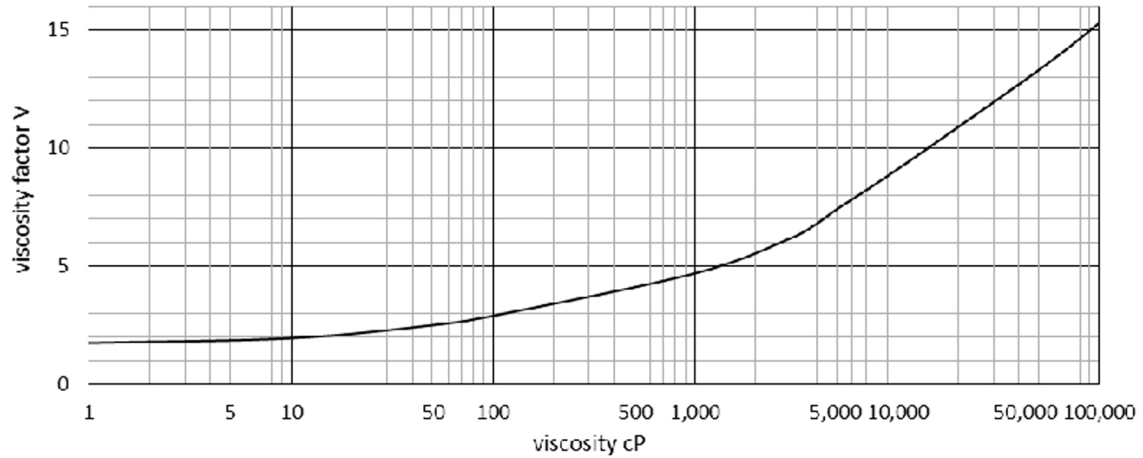## Applies to multi-lobe rotor

Power Calculation for Viscosity Liquids

$$(English\ units)\ \textbf{Total Power}\ (\textbf{HP}) = (0.0007 \times p + 0.0051 \times v) \times n \times c$$

$$(Metric\ units)\ \textbf{Total Power}\ (\textbf{Kw}) = \frac{(2 \times p + v) \times n \times c}{1000}$$

$p = pressure\ (psi\ or\ bar)$

$v = viscosity\ correction\ factor\ (from\ graph)$

$n = speed\ (RPM)$

$c = displacement\ \left(0.005\ ^{gal}/_{rev}\ or\ 0.02\ ^{L}/_{rev}\right)$

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