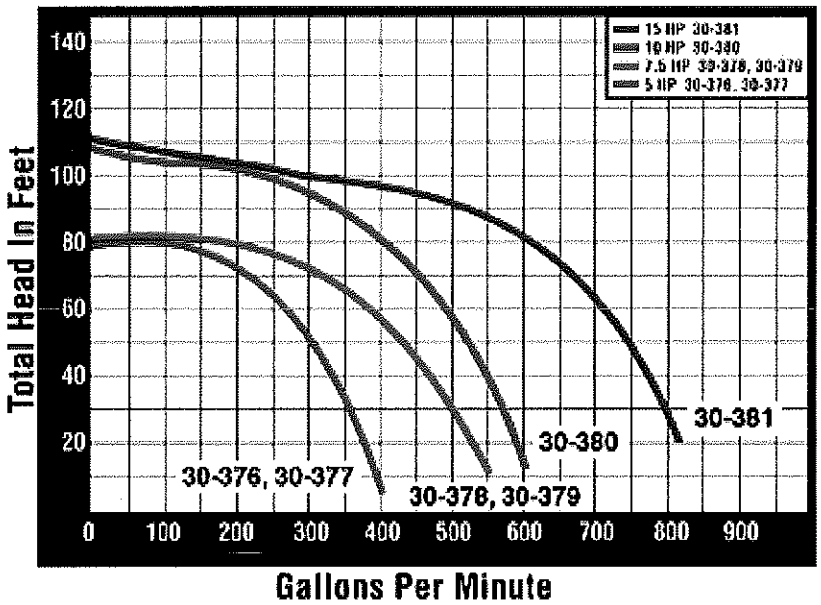
Total Dynamic Head vs Actual Flow

(Return side of pump) X psi x 2.31 = A Ft of head

(Suction side of pump) X Hg x 1.13 = B Ft of head

A + B = C Total TDH C = Total TDH

- Take C and compare to pump curve for the specific pump.
- TDH is the vertical axis and flow rate is the horizontal axis.
- Actual flow is where the TDH meets the flow curve.



Example: If A = 30 and B = 20 then C = 50 TDH

- If we were using the 5 Hp pump (red curve) then the Actual flow rate for this system is 300 gpm.
- If for example each Suction Outlet Covers (SOC) being used has a maximum gpm of 350 then the SOC is within the VGB standard and sized correctly. If the SOC was rated for a maximum gpm of 285 then the SOC does not meet the VGB standard and is undersized.

(Return side of pump) __psi x 2.31 = ___Ft of head

+

(Suction side of pump) __Hg x 1.13 = ___Ft of head

=_____Total TDH