## Guidelines for Figuring the Flow Rate by Vacuum Gauge

1. Be sure that filter(s) have recently been backwashed.
2. Observe the vacuum gauge reading in inches of Hg (Mercury) then multiply that reading by 1.13 to obtain feet of head.
3. Observe the influent pressure gauge and then multiply the reading by 2.31 .
4. Add the two figures together to obtain the total feet of head.
5. Use the pump curve and total feet of head figure to determine the rate of flow.

Example: Hypothetical readings might be as follows:
Vacuum gauge 10 inches of Hg
Influent pressure 10 psi
Therefore: $10 \times 1.13=11.3 \mathrm{ft}$. or head
$10 \times 2.3=\quad 23.1 \mathrm{ft}$. of head
34.4 Total ft. of head

Application of this total head to the pump performance curve will establish the number of gallons per minute that the pump is capable of delivering.

A flowmeter must be installed on a horizontal straight run of pipe with a minimum of 10 pipe diameters before and 4 pipe diameters after the flowmeter. It should be positioned after the filter and before the heater. It may be installed after the heater, if a great enough distance can be maintained so that heated water will not damage the flowmeter.


