## Flow Capacities of Parker Hose at Recommended Flow Velocities

The nomogram below is provided as an aid in determining the correct hose size.

## Problem:

At 16 gallons per minute (gpm), what is the proper hose size for pressure lines?

## Solution:

Locate 16 gallons per minute in the left-hand column and 20 feet per second in the right-hand column (the maximum recommended velocity range for pressure lines). Lay a straight edge across these two points. The inside diameter required is shown in the center column at or above the straight edge. In this case, we need a hose I.D. of 0.625 (5/8") inch or larger.


Use the same procedure for suction of return lines, except utilizing their respective maximum recommend velocities.

The nomogram is based on the following formula:

$$
D=\sqrt{\frac{Q \times 0.4081}{V} \quad \text { Where: } \begin{aligned}
Q & =\text { Flow in Gallons per Minute (gpm) } \\
V & =\text { Velocity in Feet per Second }(\mathrm{ft} / \mathrm{sec}) \\
\mathrm{D} & =\text { Hose Inside Diameter (inches) }
\end{aligned}}
$$



