

Selecting Hose Size by Flow Capacity

Flow capacity nomogram

Flow capacities of Intertraco hose at recommended flow velocities

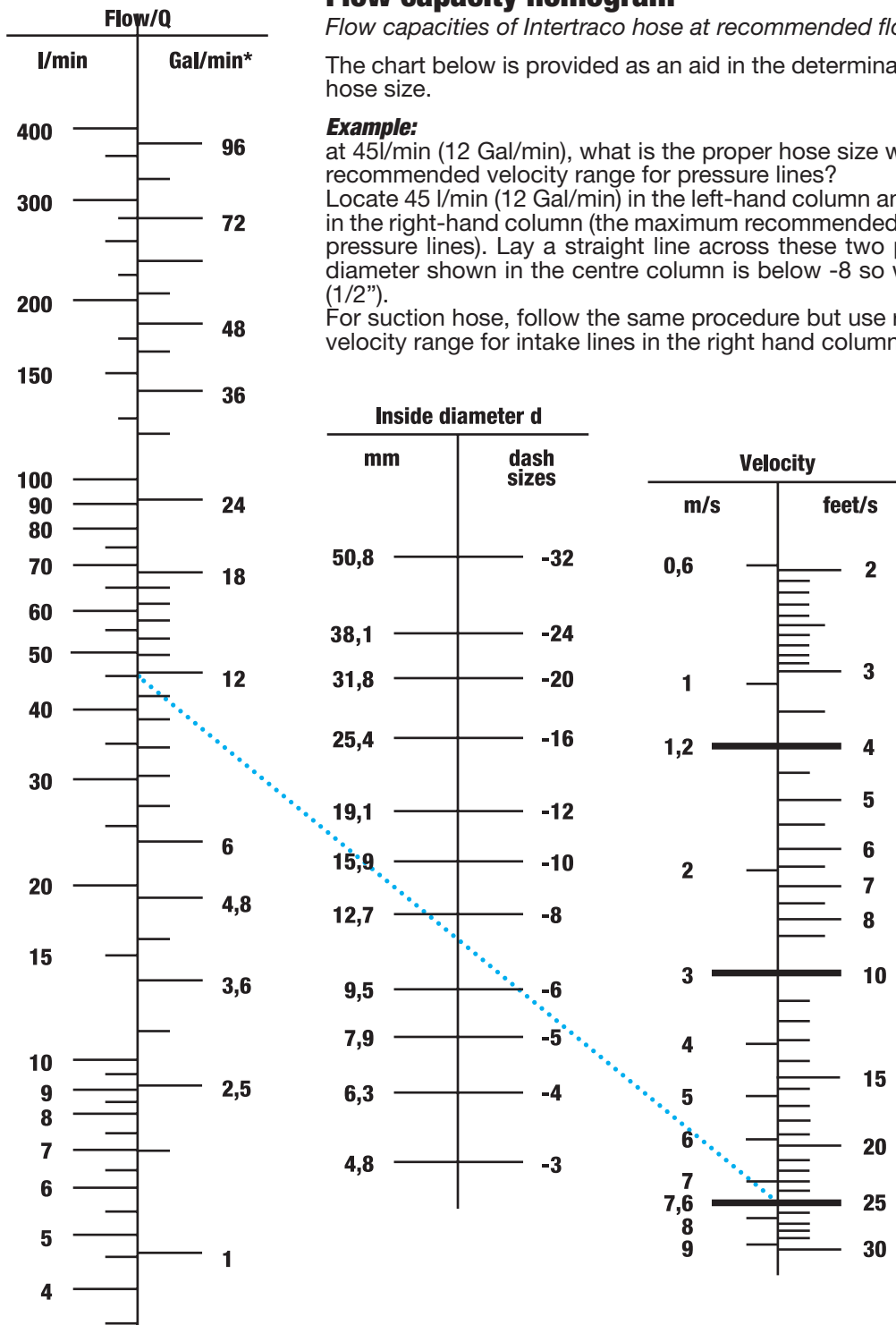
The chart below is provided as an aid in the determination of the correct hose size.

Example:

at 45 l/min (12 Gal/min), what is the proper hose size within the recommended velocity range for pressure lines?

Locate 45 l/min (12 Gal/min) in the left-hand column and 7,6 m/s (25 ft/s) in the right-hand column (the maximum recommended velocity range for pressure lines). Lay a straight line across these two points. The inside diameter shown in the centre column is below -8 so we have to use -8 (1/2").

For suction hose, follow the same procedure but use recommended velocity range for intake lines in the right hand column.



Q = flow in liter per minute or US Gallons per minute **V** = velocity in meter per seconds or feet per seconds
d = hose inside diameter (mm /dash size)

* Gallons are US gallons - Conversion rate: Gal/min x 3,785=l/min - feet/s x 0,3048=m/s

** Recommended velocities are according to hydraulic fluids of maximum viscosity 315 S.S.U. at 38°C (100°F) working at room temperatures within 18°C (65°F) and 68°C (155°F).