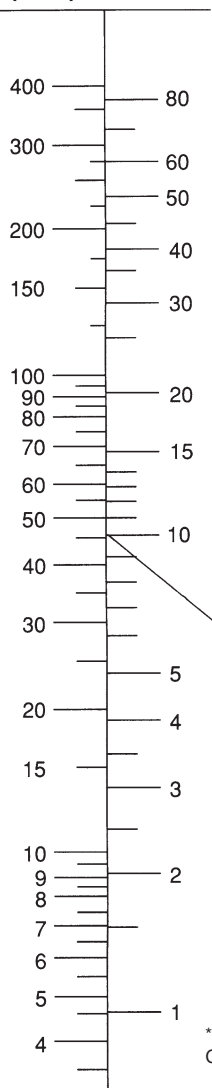


Selection of hose diameter from flow rate and velocity

Volumetric flow Q
(l/min) Gal/min*



Flow capacities of Parker hose at recommended flow velocities

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

Example:

at 10 gallons per minute (gal/min), what is the proper hose size within the recommended velocity range for pressure lines?

Locate 10 gallons per minute in the left-hand column and 25 feet per second 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 above -6 so we have to use -8 (1/2").

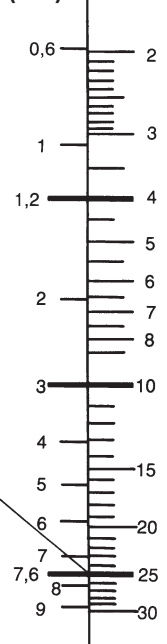
For suction hose, follow the same procedure except use recommended velocity range for intake lines in the right-hand column.

where: Q = flow in gallons per minute (gal/min & l/min)
V = velocity in feet per second (f/s & m/s)
d = hose inside diameter (mm & dash size)

Hose inner diameter d

mm	dash sizes
50,8	-32
38,1	-24
31,8	-20
25,4	-16
19,1	-12
15,9	-10
12,7	-8
9,5	-6
7,9	-5
6,3	-4
4,8	-3

Flow velocity v
(m/s) feet/s



Recommended maximum velocity for suction lines

Recommended maximum velocity for return lines

Recommended maximum velocity for pressure lines

* gallons are UK gallons

Conversion factors: gal/min x 4.546 = 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 working at roomtemperature within 18 ° and 68 °C.