

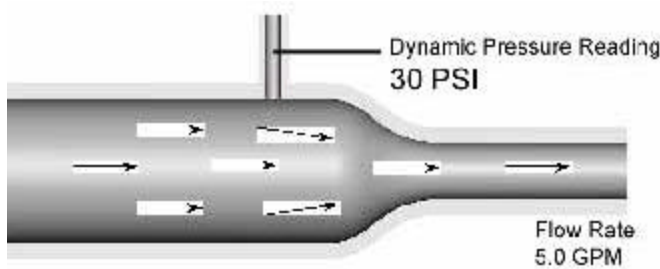
Water Supply Requirements

And ... The Difference Between Static and Dynamic Pressure

Water Injectors need a good supply of water for two reasons: One, since Water Injectors™ fill batteries quickly, a large amount of water must be delivered quickly as well.

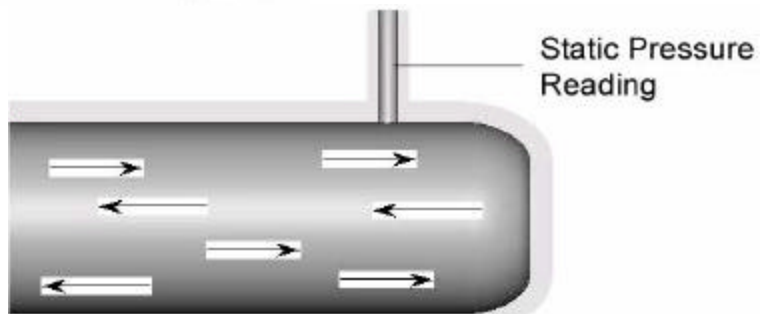
Flow Requirements	
Battery Size	Flow (Gpm)
6 cells	3
9 cell	4
12 cell	5
18 cell	7
24 cell	9

A 24 cell string uses 9 gallons of water per minute.



The second reason is that Injectors achieve their phenomenal reliability by using the power of pressurized water to shut themselves off. This means the water pressure going into an Injector string must stay at 25 psi or above. It is important to remember that this is the pressure measured while the water is flowing. A building's

water pressure may measure 60 psi by connecting a pressure gauge. The pressure measured with no water flowing is called "static pressure"



When a valve is opened and water begins to flow, the pressure drops. The faster the flow, the lower the pressure drops. Measuring the pressure while the water is flowing is called "dynamic pressure." There will be a different dynamic pressure for different flow rates.

The flow checker is the device used to measure dynamic pressure. By putting different simulator caps on, different flow rates can be achieved. The flow checker will show what the pressure will be while running a Water Injector string. If it is below 25 psi, the supply of water is insufficient to power Water Injectors.

