



**PUMPLETTER
OCTOBER 10, 2009**

Air Valve technology is the heart of any Air-Powered Double Diaphragm pump and determines reliability & efficiency. Neoflux' **Neo-Tune Air-Distribution System** (ADS) technology is guaranteed to perform on its field and enjoys a superior reputation throughout the industry.

All **Neo-Tune** Lube-Free ADS starts working at 2.3 BAR Air Pressure guaranteed. While other competitors ADS requires minimum 3.5 BAR to 4.5 BAR Air Inlet Pressure.

SELECTING THE RIGHT PUMP

When selecting a pump a common problem we see is under sizing the pump. A good example of this could be selecting a **nf25** for 180 LPM at 30'TDH. While the **nf25** is capable of this Flow/TDH, it is not the pump that is recommended.

We recommend using a **nf50** model. When running the **nf25** at 180 LPM you are at 85% of its maximum speed. Working the pump this fast will cause premature wear and possible failure.

This is similar to running an automobile engine at 6000 RPM (redline). It can be done; however, you will get much longer life driving at 2000 - 2500 RPM.

If you divide a pump curve into three bands ideally the pump should run in the middle of the band. Doing this, you will get the maximum life and reliability out of your pump.

Neoflux does realize that running a pump in the middle of the curve may not always be possible but consequences of running to the far right of the performance curve is shortened diaphragm life, lowers the air pressure, slows the pump down and saves the diaphragm whenever possible.

