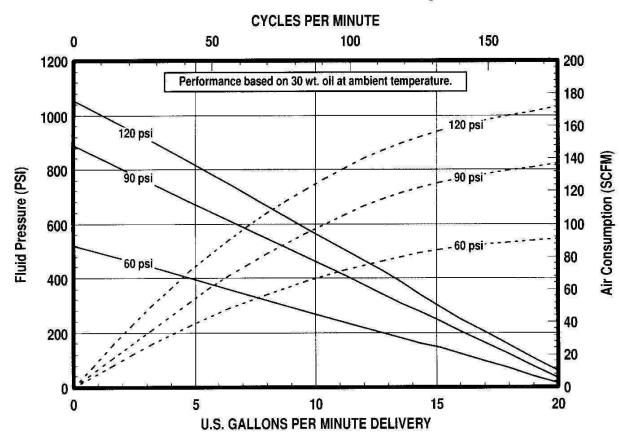


ARO°

ARO Piston Pumps Selection Guide



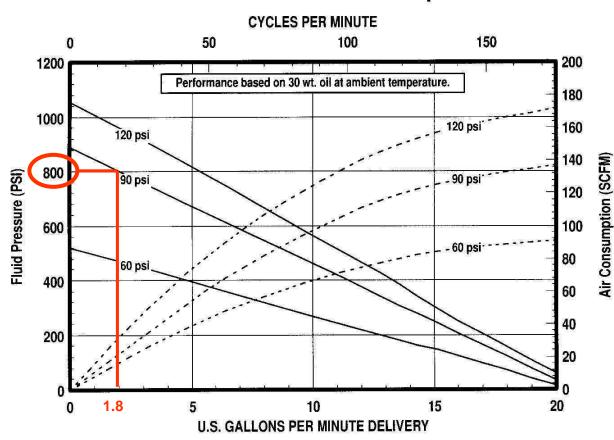
Reading Performance Curves



- Use curves to determine if a pump can meet the application requirements
- The X-Axis indicates flow
- The Y-Axis indicates fluid pressure



Determine Fluid Flow

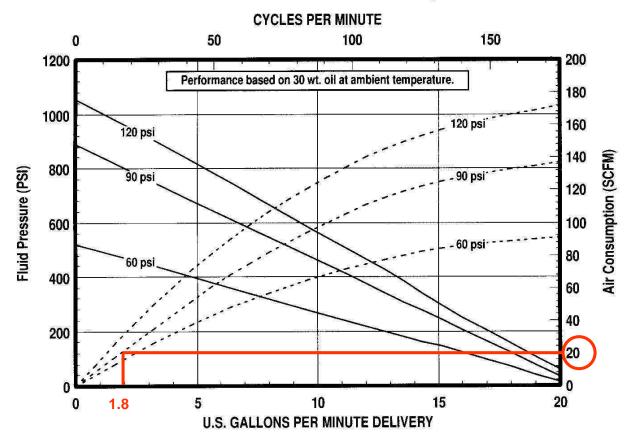


- Example Calculation:

 Back Pressure = 800 psi
 Air = 90 psi
 Flow = 1.8 gpm
- Plot 800 psi on Y-Axis until it meets the 90 psi line. Plot down to the X-Axis (flow)
- In this example the pump is capable of delivering around 1.8 gpm



Determine Air Consumption

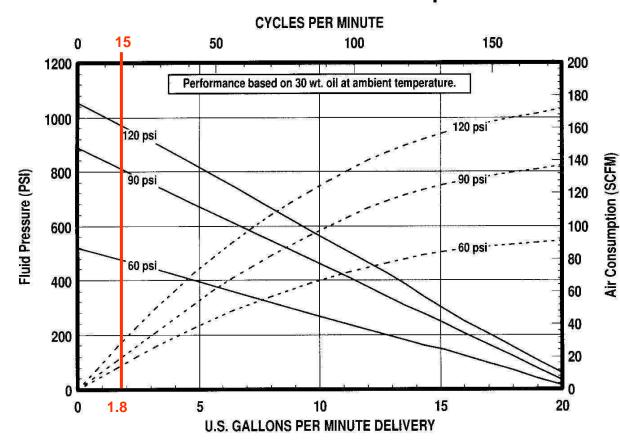


- Example Calculation:

 Back Pressure = 800 psi
 Air = 90 psi
 Flow = 1.8 gpm
- Plot 1.8 gpm on the X-Axis. Move up until you intersect the 90 psi curve, then plot over to the SCFM axis
- The pump will use about 20 scfm of air in this application



Determine Cycle Rate



- Example Calculation:
 Back Pressure = 800 psi
 Air = 90 psi
 Flow = 1.8 gpm
- Plot 1.8 gpm on the X-Axis. Move up until you intersect the top line of the chart
- To deliver 1.8 gpm, the pump will cycle roughly 15 times per minute

