

ECLIPSE® vs. Peristaltic



TOP 10 REASONS WHY ECLIPSE OUT-PERFORMS

PERISTALTIC PROBLEM	ECLIPSE SOLUTION
<i>Leakage of Chemicals destroying the pump or surrounding area</i>	
<ul style="list-style-type: none"> • Corrosive, Costly, Hazardous, Regulated, Toxic, Flammable or Explosive will eventually escape from connections or fatigued, ruptured hose or tube • Required to use flexible hose for connections that are unreliable and can break or leak • Peristaltic hose/tubes are unpredictable and will eventually fail catastrophically • Peristaltic hose/tubes requires leak detection to know if there is a problem 	<ul style="list-style-type: none"> • Sealless design - Housings are seal with two static O-rings • Pump is hard piped, no chance of a break or leak point • Longest Mean Time Between Failures
<i>Limited pressure differential, over pressurization</i>	
<ul style="list-style-type: none"> • Operating pressures vary with peristaltic series, model and hose/tube materials 	<ul style="list-style-type: none"> • All models designed for 150 psi differential pressures • All models designed for 200 psi casing/working pressures • Burst pressures to 580 psi
<i>Viscosity limitations</i>	
<ul style="list-style-type: none"> • 1 to 100 cPs, increased fluid viscosity will result in decreased flow, Max viscosity 2,500 cPs • Elevated fluid viscosities require two tubes to draw viscous fluids that need to be merged into one tube to produce a flow on discharge 	<ul style="list-style-type: none"> • 0.3 to 10,000 cPs and higher • As fluid viscosity increases pump efficiency increases
<i>Loss of Repeatability and accuracy</i>	
<ul style="list-style-type: none"> • Flows vary and accuracy is lost with static head changes • Variable flows in suction lift installations – “Suction lift depends on the tube restituting fully before the advance of the next roller, if this does not happen the result is reduced flow” 	<ul style="list-style-type: none"> • Continuous output flow is not affected by static head changes • Operating in vacuum systems (28 in. Hg or 0.1 mm Hg) does not hinder performance
<i>Pulsating flow</i>	
<ul style="list-style-type: none"> • Peristaltic pump require multiple rollers to reduce pulsations • Multiple rollers mean more hose/tube compressions, increasing fatigue, reduced tube life and increased chances of failure 	<ul style="list-style-type: none"> • Straight and short flow-through design