

"Peristaltic" and Tube or Hose Pump pipe systems react to Shoe lift-off flow reversal.



PIPE PROBLEMS @@@(below)

SUCTION Systems:

The pressure generation from flow reversal in the suction pipe, when the shoe or wheel hits the hose, depends on the length of the suction pipe.

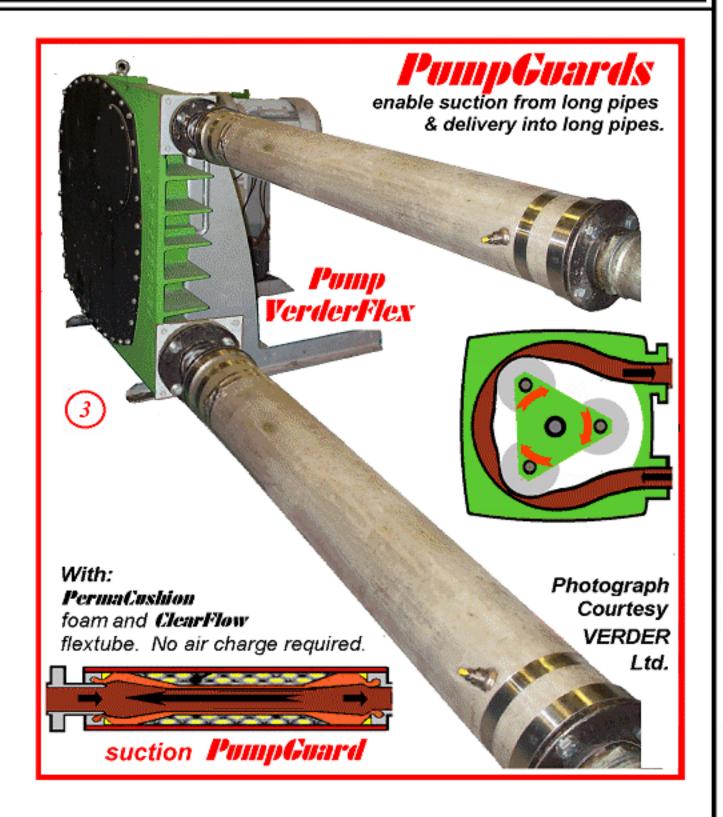
DISCHARGE Systems:

The pressure fall, and the height of the pulse that follows it, when the shoe or wheel lifts off, depends on the length of the discharge system.

Pulsation and hose pumps are system problems. No one can tell you how much pulsation has to be removed to enable your pump to work **unless:**

The pipe system details are estimated and stated.

TECH. Notes: It is not necessary to read the areas shaded in this color. Peristaltic - from Greek "contractions and dilations (of a canal) moving a fluid "
The inside radius of the pipe, squared x 3.142, is its cross sectional area.
Section Area x length is its volume, Volume x Specific Gravity is weight that has to change direction in "shoe squash" or "lift off" time. The viscosity of your liquid adds drag, and so do number & type of "Ls" & "Ts" you chose.
No one can calculate how much pulsation you need to have removed, without pipe detail. Pumps can't pump unless systems are smooth enough.



- Grit, Scum, Sewage, almost anything other than broken tail light lenses, wire, in 4" balls of rag & paper- may be pumped for miles, by the pumps below. Provided the pipe length, flow rate, r.p.m. are fixed, then suction PUMPGUARDS can be set for successful discharge use.
- Suction lines run up to 75 ft. / 23 meters, with huge pump priming and potential cavitation, problems that will cause even worse discharge pulsation.
- 3 A more normal application: 40ft. of 3" pipe in Yorkshire England moderate potential pulsation.

ANSWER PUMP GUARD & ClearFlow FlexTwbe designed to allow 4" Diam./ 100mm balls of rags & paper impregnated with broken tail light lense & wire to pass into ENVIROTECH pumps Foam prefill (no air) enables PumpGuard to continue working even after laceration of its FlexTube.

For details see WORLD PUMPS June Edition 1998

RESULTS 1 No Sewers Overflow 2 Pumps can fill. 3 Smooth systems last for ever!

Pipeline reaction, to pumping action, is also reduced by having 3 off set pumps on one shaft.

