The COST \$\$ of Air Operated Double-Ended Diaphragm (A.O.D.D.) PUMPS with Various PULSEGUARD Dampers



## Saving 40%, AND having stable pressure for free, when flow smoothing systems with an AODD by avoiding single connection "Pulse Dampers" because they can not respond.

| 22 M3/Hr. (100 USGPM) heavy oxides slurry at only<br>1.5 meters / sec in a DN80mm line settles our and<br>plugs the Damper / Accumulator. The need is for flow-<br>through constant agitation & lower connection cost.<br>160 in3 pulse volume from diaphragm reversal &<br>1,000 in3 - 16Lt. Acc., only reduced spike 30%   | 3 pcs. CPVC Ts3" \$102<br>1x3"Flg + 3" NPT \$17<br>pipe coupling \$5<br>6 Hrs prime, bondfit-up &<br>Hydro \$430<br>4.3 USG PVC Acc \$1,136<br><b>Total \$1,680</b> | PIPEGUARD<br>PLAS.<br>3<br>PIPEGUARD<br>PLAS.<br> |
|--|---|---|
| 2 Ts and a flange were saved by using a <i>accumulator safety block</i> , to which the damper face "O" seals and which provides for bracket mounting.<br>The straight line from pump to damper guts gave pressure peak clipping. 2" pipe gave 3M/s. velocity The 720 in3, 4 connection damper does more than the 16 Liter Accumulator; but as the path is not through the damper, stable pressure was not evident. | 1 pc. 3" socket T \$32<br>3.75 Hrs. fitting prep. &<br>Hydro \$269<br>11.8 Lt. Damper c/w pipe<br>base \$1,248<br><b>Total \$1,549</b>                              | Pressure<br>Peak "Clinoing"                       |
| A (415 in3) 6.75 Liter (125 psi) 8.5 Bar 4 connection true<br>flow through FLEXORBER LP damper, provides<br>continuous agitation, in place flushability, saves all 3 T<br>pieces and out performs an accumulator more than twice<br>its size -   | e 2.9 Hrs. Fitting prep. &<br>Hydro. \$208<br>6.7 Lt. Flexorber LP<br>\$800<br><b>Total \$1,008</b>   | FLEXORBER LP                                      |
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Pressure travels 300 times faster than flow So pulsation - flies straight past a "T"!

Because flow is so slow, there is time to flow up, come to a stop, and flow back down a "T" on the other

