

## **The Adaptek Disc Pump versus the Moyno (and other PC pumps)**

- If a Moyno runs dry even momentarily there is a great likelihood of severe damage.
- + An Adaptek with a flushed seal the pump is capable of running dry indefinitely.
  
- If operated against a closed valve the Moyno will need a relief valve or risk very serious damage
- + The Adaptek can run for an extended time in a dead-head or restricted flow condition.  
Note 1: If highly abrasive this can wear the casing however but still allows time for detecting the condition before damage occurs.
- Note 2: In a slurry service, once a relief valve is opened it may require disassembly and cleaning to remain functional and reliable.
  
- The Moyno has a large footprint commanding much valuable floor space.
- + The Adaptek is compact with vertical chair mount ideal for PC retrofit (see schematic attached).
  
- For higher flows, a very large PC pump is required – very expensive. For applications, such as filter press feed, a high flow is required to attain a proper media pre-coat.
- + The Adaptek is capable of very high flows (higher than many centrifugals that are limited by run-out flow) so a smaller pump can be used.
  
- PC pumps, by their very design, are prone to wear in abrasive service with particles being pushed along between the rotor and stator with the majority of fluid contacting the interior surfaces.
- + The Adaptek disc pump generates a smooth, pulse-free laminar flow limiting fluid contact with interior surfaces.
  
- PC pumps are particularly sensitive to being damaged by unexpected tramp solids, even relatively small, tearing up the stator and scoring the rotor.
- + The Adaptek disc pump is capable of passing large rock-hard spherical solids without damage.
  
- PC pumps, like many other positive displacement pumps, are designed for a relatively small viscosity range, with internal clearances being opened larger with increased viscosity, and may have difficulty in handling a wide viscosity range.
- + The standard Adaptek pump is capable of handling a wide range of viscosities from water to in excess of 10,000 cPs without any pump design changes.
  
- PC pumps often require maintenance, a challenging task being so large.
- + The Adaptek pump requires minimal, if any, maintenance and the compact close coupled or chair mount design are service friendly with no close critical internal tolerances.
  
- Most PC pump manufacturers sell far more parts than pumps.  
Note: Most PC pumps are furnished with parts in anticipation of the inevitable failure.
- + Parts comprise less than 5% of the disc pump business.  
Note: In most services we will include major parts if the unit loses performance due to wear. This can be for 1, 2 or even 3 years! Price on the Moyno should include anticipated spares at least for the first year.