

## White Knight Pump Accessories



### Back-Pressure Regulators

Accurate air spring-loaded back-pressure regulators automatically control system pressure without additional circuitry or feedback. They offer remote piloting capability to maintain system pressure for recirculation loops or systems with multiple tool drops or dispense points.



### Catcher™ Pre-Filters

White Knight Catcher™ pre-filters protect pumps from harmful solids, such as wafer shards and debris, while their specially-designed through-holes prevent loading of the filter by fine crystals often found in chemistries.



### Closed-Loop Controllers

The programmable closed-loop controller (CPC-1) provides complete monitoring and control options for high-purity chemical processes and delivery systems that utilize White Knight pumps and pulse dampeners — allowing for closed-loop control systems that do not contain any metals, O-rings, nor rotating parts. The systems are capable of operating at temperatures up to 210°C (410°F); dead-heading without pressurizing the liquid line; and offer high suction lift. The CPC-1 controller simplifies process automation and may eliminate the need for expensive pressure vessels.



### Cycle Rate Translators

The cycle rate translator (CPT-1) enables pump swapouts in existing tools. It operates replacement White Knight pumps at their optimal cycle rate and scales their operational cycle rate to that expected by the tool.

### Filter Housings

White Knight filter housings contain no metal parts and allow for filter changing without disconnecting the inlet or outlet lines. Their Synchro-Thread® design allows for operation in temperatures ranging up to 210°. Face and diameter seals provide double containment to prevent leaks.



### Fittings

White Knight offers fittings with Synchro-Flare®, Flaretek® compatible, PureBond® weldable, FNPT (female NPT), Pillar®, Pillar® Super 300, and tubing out connection types.



### Pulse Dampeners

White Knight in-line and top-mount pulse dampeners reduce pulsation in fluid systems to improve flow control, increase batch yields, protect fittings and pipes, and minimize downtime for system repairs. Auto-leveling provides constant, active adjustment for more system control and increased chip yields.



### Quick Exhaust Valves (QEVs)

White Knight QEVs allow immediate escape of exhaust air to reduce pulsation and protect the solenoid valve from harmful chemical fumes and vapors. QEVs are available in Polypropylene or PTFE. They come with a one year warranty.