

# White Knight

## AT Series Pumps



- 0-210° Celsius
- Factory Warranty on Customer Re-Build\*
- No Maintenance Warranty

- 100% PTFE/PFA Pump Construct
- Zero Metal
- Zero O-Rings



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† Air side shuttle valve does contain 2 ceramic pieces

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## AT Series Pumps

The White Knight AT Series pumps are constructed from 100% PTFE and PFA. The air shuttle valves contain a ceramic sleeve and spool, but other than that, all components, wetted or non-wetted, are made of PTFE or PFA. AT Series pumps are capable of pumping liquids at a constant or thermal cycling 210° C.

### Features:

- Absolutely no metal parts.
- Absolutely no o-rings.
- Absolutely no lubrication in air shuttle or shift mechanisms.
- No preventative maintenance over the warranty period.
- One year from install, 18 month from purchase, no cycle or time limit warranty.
- Class 100 clean room assembly, testing, and packaging.
- Unique construction requires no re-torquing or re-tightening of sealed surfaces.
- No non-fluoropolymer parts in pump (shuttle valve does contain two ceramic parts).
- Virtually any size or style of liquid connection in the industry without the use of NPT threads.
- Field changeable liquid connectors.
- End user rebuildable/repairable.
- Detent-free shuttle valve design allows for only one moving part in the shuttle valve, enhancing reliability.
- Patented Synchro-Thread® design allows for safe, no-maintenance, leak-free use in constant or thermal cycling applications between 0° and 210° Celsius.
- Remote-able shuttle valve.
- Gravity reset forces pump to re-start after a virtually any stall.
- Patented Pneumatic Logic® forces reciprocating portions of the pump to decelerate just before each shift, greatly reducing liquid pulsation and pump vibration.
- Pneumatic Logic® design allows for pump operation against any amount of back pressure and dead head. Upon back pressure reduction, pump automatically re-starts.
- Available with leak detection.
- Available with electronic controls and monitoring.
- Available with added pulsation dampeners to reduce pulsation even further.

AT Series pumps rebuilt by White Knight carry a full warranty just as the new pump did (at no extra charge). White Knight will warranty AT Series pumps rebuilt by any non- White Knight technician. White Knight successfully completes a free two day training course at the White Knight facility in Hemlock, MI.

### Sizes Available:

- **AT 300** – 110 liters per minute 1 year warranty
- **AT 100** – 40 liters per minute 1 year warranty
- **AT 50** – 20 liters per minute 1 year warranty

