SAT “No-metal parts” Pumps

Comparison Chart - model SAT200
### Comparison with main competitors

#### 44 good reasons for choosing SAT200 Pump

<table>
<thead>
<tr>
<th>Feature</th>
<th>White Knight AP 100</th>
<th>SAT 200</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bellow</td>
<td>YES</td>
<td>YES (Patent SAT)</td>
</tr>
<tr>
<td>Metal-Free PTFE/PFA liquid path</td>
<td>YES</td>
<td>YES</td>
</tr>
<tr>
<td>Ergonomic design</td>
<td>NO</td>
<td>YES (Patent SAT)</td>
</tr>
<tr>
<td>PLC Schedule maintenance</td>
<td>NO</td>
<td>YES (Patent SAT)</td>
</tr>
<tr>
<td>Leak-proof, machined design</td>
<td>YES</td>
<td>YES</td>
</tr>
<tr>
<td>No elastomer O-rings, no leaks, never retorque</td>
<td>YES</td>
<td>YES</td>
</tr>
<tr>
<td>No lubrication in shift mechanisms</td>
<td>YES</td>
<td>YES</td>
</tr>
<tr>
<td>No electric motors, which generate heat</td>
<td>YES</td>
<td>YES</td>
</tr>
<tr>
<td>Pneumatic Logic™ minimizes pulsation and vibration</td>
<td>YES</td>
<td>YES</td>
</tr>
<tr>
<td>Various liquid connection options</td>
<td>YES</td>
<td>YES</td>
</tr>
<tr>
<td>Safe, leak-free operation due to no-metal design</td>
<td>YES</td>
<td>YES</td>
</tr>
<tr>
<td>Feature</td>
<td>White Knight AP 100</td>
<td>SAT 200</td>
</tr>
<tr>
<td>----------------------------------------------</td>
<td>---------------------</td>
<td>---------</td>
</tr>
<tr>
<td>Ceramic in air shuttle valve</td>
<td>YES</td>
<td>YES</td>
</tr>
<tr>
<td>Minimal parts for durable design</td>
<td>YES</td>
<td>YES</td>
</tr>
<tr>
<td>Class 100 cleanroom assembly, testing, and packaging</td>
<td>YES</td>
<td>YES</td>
</tr>
<tr>
<td>Ultrapure cnc machine</td>
<td>NO</td>
<td>YES</td>
</tr>
<tr>
<td>Easy to install and service</td>
<td>YES</td>
<td>YES</td>
</tr>
<tr>
<td>Proven reliable to 200 million+ cycles</td>
<td>YES</td>
<td>YES</td>
</tr>
<tr>
<td>No preventative maintenance during one year warranty</td>
<td>YES</td>
<td>YES</td>
</tr>
<tr>
<td>External Tube</td>
<td>YES</td>
<td>NO (Screw Patent SAT)</td>
</tr>
<tr>
<td>Suppressor inside check valve</td>
<td>NO</td>
<td>YES (Patent SAT)</td>
</tr>
<tr>
<td>Constant flow</td>
<td>NO</td>
<td>YES</td>
</tr>
<tr>
<td>Special design check valve</td>
<td>NO</td>
<td>YES (Patent SAT)</td>
</tr>
<tr>
<td>Risk metallic contamination</td>
<td>NO</td>
<td>NO (Patent SAT)</td>
</tr>
<tr>
<td>Risk air line contamination</td>
<td>NO</td>
<td>NO</td>
</tr>
<tr>
<td>Max Flow</td>
<td>40lt/min</td>
<td>40lt/min</td>
</tr>
<tr>
<td>Max Temperature</td>
<td>100°C</td>
<td>100°C</td>
</tr>
<tr>
<td>Max Pressure</td>
<td>4 bar</td>
<td>4,5 bar</td>
</tr>
<tr>
<td>Dry Suction</td>
<td>1 mt</td>
<td>1,2mt</td>
</tr>
<tr>
<td>Shuttle</td>
<td>YES (Ceramic)</td>
<td>YES (Ceramic)</td>
</tr>
<tr>
<td>Air Max</td>
<td>4 bar</td>
<td>4,5 bar</td>
</tr>
<tr>
<td>DE x DI Tubing</td>
<td>1/4 npt</td>
<td>10 x 8</td>
</tr>
<tr>
<td>Piping for fluid 3/4&quot;</td>
<td>19 x 15,8</td>
<td>19 x 15, 8</td>
</tr>
<tr>
<td>Weight</td>
<td>7,1 Kg</td>
<td>7 Kg</td>
</tr>
<tr>
<td>Dimensions</td>
<td>245 x 261 x 159</td>
<td>280 x 185 x 120</td>
</tr>
<tr>
<td>Compact</td>
<td>NO</td>
<td>YES (Patent SAT)</td>
</tr>
<tr>
<td>Handle</td>
<td>NO</td>
<td>YES (Patent SAT)</td>
</tr>
<tr>
<td>Ultrapure</td>
<td>YES</td>
<td>YES</td>
</tr>
<tr>
<td>Repair service inline</td>
<td>NO</td>
<td>YES</td>
</tr>
<tr>
<td>Bellow long lifetime</td>
<td>NO</td>
<td>YES (Patent SAT)</td>
</tr>
<tr>
<td>Price</td>
<td>High</td>
<td>Lower</td>
</tr>
<tr>
<td>Maintenance cost</td>
<td>High</td>
<td>Lower</td>
</tr>
<tr>
<td>Warranty one year</td>
<td>YES</td>
<td>YES</td>
</tr>
<tr>
<td>Local Assistance</td>
<td>NO</td>
<td>YES</td>
</tr>
</tbody>
</table>