





REvolution™ EV Filler

Frequently Asked Questions

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| <p>What is the revolution EV Filler?</p> | <p>The REvolution EV Filler is an advanced rotary liquid filling machine that performs at speeds of up to 2,200 cans and 1,800 bottles per minute. It features an updated method for opening and shutting valves, with the entire filling cycle controlled and monitored by computer. That results in lower energy use, more accurate fills, reduced foaming and increased yields. The REvolution EV Filler offers unsurpassed container versatility, fill volumes and beverage types in addition to two patent-pending features that provide innovative performance features unavailable anywhere else.</p> |
| <p>How is the revolution EV Filler different from JBT Bevcorp Legacy Crown Fillers?</p> | <p>Legacy fillers use complex mechanical levers and counter pressure to control the filling cycle, requiring manual adjustments and fine-tuning. In contrast, the REvolution EV Filler uses PLC control for all aspects of filling cycles including container pre-purge, fill start, fill end and gas purge. The precise control minimizes foaming and splashing, and adjustments can be made with an easy-to-use system interface. Additionally, the REvolution EV Filler eliminates contamination risks associated with legacy valves such as ball cage balls.</p> |
| <p>What products can be filled with the REvolution EV Filler?</p> | <p>The REvolution EV Filler can handle carbonated beverages, still beverages, juices with small particulates, broths, hot and cold liquids, beer, wine, ready-to-drink coffee and tea, nutraceuticals, dairy products and more.</p> |
| <p>Can the REvolution EV Filler save me money?</p> | <p>When paired with the JBT BevCorp MicrO2 Blender, the REvolution EV Filler enables ambient fills, leading to significant energy and resource savings by reducing or eliminating refrigeration pre-fill and warming post-fill. Some customers may realize savings of over \$750,000 per year, though actual figures vary based on the specific system and conditions.</p> <p>The filler also improves throughput by approximately 10% over legacy fillers with more efficient valve placement and a longer filling cycle, which enhances volume control, lowers dissolved oxygen and improves carbonation. This helps to substantially increase production, potentially adding millions of additional cans or bottles per year.</p> <p>Further savings come from reduced maintenance, faster changeovers and automated clean-in-place technology. The ambient fill capability provides immediate ROI through energy savings. Reducing energy consumption may also qualify for grants or rebates from local energy programs, but they vary by location.</p> |

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| <p>How is the REVolution EV Filler more hygienic?</p> | <p>The REVolution EV Filler uses several innovative technologies to enhance hygiene:</p> <ol style="list-style-type: none"> 1. REV™ EV Filling Valves: No ball cage balls, reducing contamination risk. The system software monitors can seal quality, reporting leaks for review and maintenance. Malfunctioning valves can be disengaged selectively, allowing continuous production and minor repairs during maintenance cycles or off-peak hours. 2. Mesh Upper Platform: It's designed to drain liquids to the floor, preventing pooling. It also simplifies washdown procedures and reduces mold and bacteria growth. 3. REV™ Hygienic Base: The base is constructed in lighter, pre-manufactured sections that distribute weight better than legacy bases. It eliminates horizontal surfaces below the product line, preventing beverage pooling. 4. Integrated CIP System: The filler automatically caps valves at the touch of a button, eliminating the need for CIP cups. This allows recipe-driven cleaning cycles that are compatible with the JBT A&B CIPure system coming in 2025. |
| <p>What is REV™ ID and why does it matter?</p> | <p>The REVolution EV Filler features an advanced traceability system called REV ID, which offers key benefits including:</p> <ol style="list-style-type: none"> 1. Component Traceability: Critical components like dispensing nozzles are individually addressable and trackable. Paired with a coding system, individual products can be traced back to the specific valve that filled them, in addition to standard batching information. This is crucial for applications requiring high product traceability, such as nutraceuticals. 2. Lifecycle Management: REV ID monitors, predicts and manages the life expectancy of machine parts. The system writes to embedded RFID tags, detailing the number of cycles run. It adjusts the expected lifespan of components based on real-world data and use patterns, providing service recommendations and notifying customers of remaining part life. |
| <p>What are the advantages of the REV™ Drop-in-Drive?</p> | <p>The REV Drop-in-Drive is a patent-pending sub-system in the REVolution EV Filler that offers several advantages including:</p> <ol style="list-style-type: none"> 1. Ease of Maintenance: The servo drive and starwheel assembly can be lifted out as a single unit by loosening a few bolts, simplifying maintenance and speeding up repairs. 2. Reduced Downtime: A spare assembly can be quickly swapped in, reducing downtime from hours to minutes. 3. Streamlined Inventory: The commonality of drives allows a single spare to be used across multiple systems, making inventory management more efficient. 4. Extended Lifespan: Repaired assemblies can serve as universal spares, enhancing the longevity and reliability of all drives. |

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| <p>What is new and different with the REV™ Filling Valve?</p> | <p>The REV Filling Valve is an electronically operated system controlled by a PLC and mass/mag flow sensors. It improves reliability and precision over legacy counter pressure and mechanical valves. Key features include:</p> <ol style="list-style-type: none"> 1. Enhanced Monitoring: Each valve is individually monitored for flow accuracy, cycle count and product volume, aiding in predictive maintenance. The system can automatically isolate and shut off faulty valves to maintain production continuity. 2. Advanced Control: The filling cycle is entirely managed by the HMI and PLC, allowing precise control over the start and end of the filling cycle. This includes profiling the flow of gases and liquids to control foaming and optimize efficiency. 3. Flexible Gassing: Gassing can start before or after the can is sealed to the valve, and purging can begin before or after the valve seal is released, preventing foaming. 4. Recipe Storage: All filling cycle features are stored in “Recipes” accessible from the HMI, enabling automatic changeovers between products or can sizes with the touch of a button, reducing direct labor and simplifying the process. <p>These features offer repeatable results that are more flexible, reliable and sustainable.</p> |
| <p>How do I install the REVolution EV Filler?</p> | <p>JBT engineers collaborate with your production team to plan and implement the installation of your REVolution EV Filler.</p> |
| <p>Can the REVolution EV Filler be installed by in-house technicians, or does it require professional installation?</p> | <p>JBT Bevcorp recommends that JBT certified technicians install and perform all non-routine maintenance during the warranty period to ensure optimal performance and preservation of the warranty.</p> |
| <p>Is REVolution EV Filler compatible with all JBT models?</p> | <p>Yes, it’s compatible with any upstream or downstream applications manufactured by JBT.</p> |
| <p>Is there an installation manual?</p> | <p>Yes, two (2) hardcopy operations manuals and a digital copy are included with your equipment purchase.</p> |
| <p>What are the recommended maintenance procedures?</p> | <p>Recommended maintenance procedures are detailed in the operations manuals provided upon commissioning. The procedures are then customized post-commissioning to reflect your specific plant conditions. Adhering to all recommended maintenance guidelines is crucial to preserving your system’s warranty.</p> |
| <p>How often should this machine be serviced?</p> | <p>Follow all recommended maintenance procedures as outlined in the operations manuals to ensure your system’s warranty remains intact.</p> |
| <p>What should I do if I believe my REVolution EV Filler is not operating properly?</p> | <p>If you suspect that your EV Filler isn’t functioning properly, please contact your JBT Bevcorp Customer Care representative for assistance. You may also ask about our PProCARE® and OmniBlu™ programs, which provide comprehensive parts, service and support coverage for your equipment.</p> |

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| <p>Can the REVolution EV Filler be ordered and shipped internationally?</p> | <p>Yes, it can be ordered and shipped internationally. Please contact your JBT Bevcorp Sales team for more information.</p> | |
| <p>How do I reach support if I have questions about my REVolution EV Filler?</p> | <p>Our Customer Care team may be contacted at:</p> | |
| | <p style="text-align: center;"></p> <p style="text-align: center;">8 a.m. to 5 p.m. Eastern Standard Time Monday through Friday.</p> <p style="text-align: center;">440-954-3506</p> | <p style="text-align: center;"></p> <p style="text-align: center;">In an emergency or, for after-hours service our Emergency Service Line is:</p> <p style="text-align: center;">440-954-3508</p> |
| | <p style="text-align: center;">Alternatively, contact us at service@bevcorp.com</p> | |