



WHY CHOOSE ABEC?

Over the years, ABEC has developed an in depth understanding of the intricacies of biopharmaceutical equipment. Major problems can be avoided with access to our significant knowledge and expertise. This has contributed to our strong reputation in the industry as a reliable trustworthy provider for preventive maintenance. Our team of highly skilled technicians and engineers are equipped with the latest tools and technologies and are committed to delivering the best possible solutions to keep our customers' systems running efficiently.

BENEFITS

- Reduced downtime and repair cost
- Increased equipment lifespan
- Flagging components that require maintenance
- Improved reliability and equipment performance
- Verifying and updating material certifications and documentation
- Customized maintenance plans

UNIQUE FEATURES

- Kitted parts by system for easy installation
- Gearbox oil & seals
- Mechanical functional testing
- Parts change-out
- Identifying potential problems before they occur
- Optimizing the performance of equipment
- Prevent unexpected breakdowns
- Track maintenance history and performance
- Generate reports to aid in decision making in the future

Conducting Preventative Maintenance (PM) ensures your existing equipment is operating at peak performance. ABEC can perform PM labor alone or supplement customer maintenance technicians. The PM services offered by ABEC are described on the next page but can be customized to fit your routine maintenance needs:

SERVICE BRIEF PREVENTATIVE MAINTENANCE

PM SERVICES

VISUAL INSPECTIONS

ABEC conducts visual inspections and walk-downs on ABEC or non-ABEC equipment utilizing P&IDs (Piping and Instrument Diagram) or General Assembly drawings to check for signs of leakage, and overall wear of the system. Visual inspections also include highlighting signs of damage to parts, like rupture disks and other areas with potential sanitary issues.

PARTS CHANGE-OUT

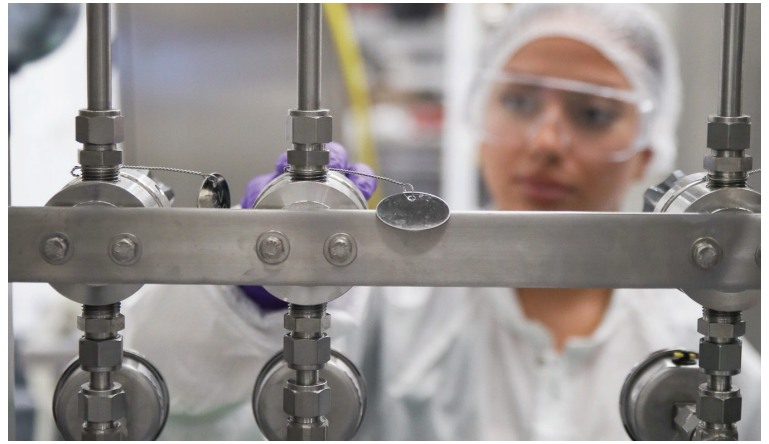
ABEC has the capability to perform routine change-out for all consumable components and product-contact materials and parts, including filters, elastomers, diaphragms, check valves, and seals. Any excessive wear of the diaphragms is noted and reviewed with the customer to prevent damage in the future.

GEARBOX MAINTENANCE

It is important to maintain gearbox operation to prevent contamination and failures during production runs. ABEC addresses gearbox maintenance with routine oil and oil seal change-out.

MECHANICAL FUNCTIONAL TEST

ABEC performs mechanical functional testing of all components within the skid boundary as shown on the Piping Module and Top Assembly drawings. Components are checked to ensure they are working properly, ABEC has the capability to flag failed components that require maintenance, such as diaphragm valves, ball valves, plug valves, and regulators.



DELIVERABLE

ABEC maintains a detailed log during each preventative maintenance appointment and discrepancies are noted in the Field Service Report. Using our 45+ years of experience in the biopharmaceutical Industry, ABEC suggests and prioritizes maintenance efforts to keep operations safe and mitigate future issues.

STANDARDS

ABEC follows the ASME BPE Standard, a Certificate of Authorization from ASME confirms ABEC complies with the stringent ASME VIII design codes and fabrication process and is authorized to apply the ASME "U" stamp to new equipment, and "R" stamp to service repair work to ASME certified vessels.

