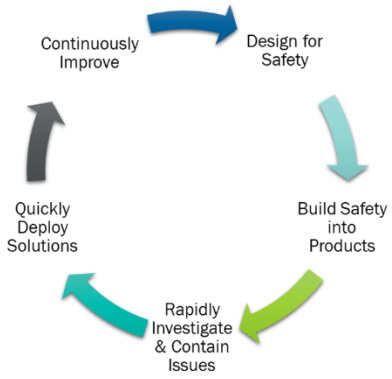
Product Safety Statement

January 2026

At Veeco, product safety is a core pillar of our engineering philosophy and corporate responsibility. We are committed to designing, validating, and delivering products that meet the highest safety standards, protect our employees and customers, and comply with global regulatory requirements. Our commitment is reflected in rigorous design standards, robust validation protocols, and continuous improvement practices formulated to ensure that our tools meet the highest safety and regulatory expectations worldwide.



Risk Assessment in Design and Development

Risk assessments, per SEMI S10 and EN ISO 12100, are systematically integrated into our product design and development processes. Multi-disciplinary teams identify, evaluate, and document potential hazards and risks at each stage, from concept through to final design. Risk assessments are maintained as part of the technical file (the controlled set of documents demonstrating compliance with the relevant standards) and are reviewed at key development milestones to ensure that risks are identified early and addressed effectively.

Risk Mitigation and Interlocks

Risk mitigation strategies are implemented based on identified hazards and evaluated risks. Where engineering controls are required, safety interlocks are selected using a risk-based approach and are rated according to internationally recognized performance levels (e.g., PLr per ISO 13849). All interlocks are documented, and their selection is justified in the risk assessment and technical file.

International Standards Compliance

Our process equipment systems are designed and validated in accordance with internationally recognized safety and compliance standards, as applicable, including but not limited to:

- SEMI S2: Environmental, Health, and Safety Guideline for Semiconductor Manufacturing Equipment
- IEC 60204-1 / 60204-33: Electrical safety for machinery and semiconductor fabrication equipment and/or IEC 61010 (Safety Requirements for Electrical Equipment for Measurement, Control, and Laboratory Use)
- CE Directives: Machinery, Low Voltage, and Electromagnetic Compatibility
- NFPA 79 and OSHA 29 CFR 1910: For systems used in the U.S.
- Other regional and industry-specific safety and environmental regulations as legally required

These standards are integrated into our internal specification, 3EN7380: Common Specification for Safety and Compliance, that governs all new Veeco product designs. We continuously monitor, and implement updates to, applicable international standards in our design and compliance processes.

Specialized Safety Requirements

Where products are subject to specialized safety requirements, such as IECEx for explosive atmospheres or Korean Certification (KC), we seek to ensure full compliance with applicable standards. Compliance is documented in the technical file and verified through third-party certifications as required.

Design Reviews

Veeco integrates product safety into its design review process through a rigorous, structured framework that includes Failure Modes and Effects Analysis (FMEA), Design Verification Testing (DVT), and Challenge Testing. These procedures help ensure that safety is not only designed into the product but is also validated through rigorous testing and cross-functional oversight.

Third-Party Assessments

To validate our internal risk assessments and safety strategies, we engage qualified, independent third-party organizations to conduct assessments and certifications where appropriate. These assessments help ensure compliance with applicable standards, provide impartial validation of our safety measures, and reinforce our commitment to transparency and accountability.

Product Safety Technical Files

Comprehensive product safety technical files are maintained for Veeco's process equipment system products. These files include risk assessments, design control documents, instructions for use, and test reports and certifications. Technical files are accessible to authorized personnel and are retained in accordance with regulatory requirements.

Validation Prior to Shipment

Prior to shipment, all safety interlocks and critical safety systems undergo formal validation and verification. Validation records confirm that interlocks function as intended. No product is released for shipment without documented evidence of successful safety validation.

Field Service Engineer Safety Procedures

Field Service Engineers (FSEs) are trained in product-specific safety procedures and compliance requirements. FSEs are required to follow documented safety procedures during installation, maintenance, and repair activities. Compliance with these procedures is monitored, and regular training helps to ensure that FSEs remain current with evolving safety practices and regulations.

Product Safety Event Procedure

All Veeco employees, field personnel, and customers are encouraged to report any product safety events, incidents, or near-misses. Reports are managed through a formal process that includes prompt investigation, root cause analysis, and corrective action implementation. We maintain transparency in reporting and encourage open communication to continually enhance product safety. Lessons learned from field events are incorporated into our risk assessment and design processes, with preventive actions implemented as appropriate across product lines.

Product Safety Committee

The Veeco Product Safety Committee is responsible for overseeing product safety, including policies and procedures, event investigations, and continuous improvement initiatives. The committee reviews safety-related data, monitors compliance with this policy, and helps to ensure that corrective and preventive actions are implemented. The Committee reports regularly to Veeco's Board of Directors, providing updates on safety trends, significant events, and the effectiveness of risk mitigation strategies.

Chemical Compliance Management

We monitor and manage the chemical compliance of all products in an effort to ensure conformance with regulations such as REACH (Registration, Evaluation, Authorization, and Restriction of Chemicals), RoHS (Restriction of Hazardous Substances), TSCA (Toxic Substance Control Act) and other applicable environmental directives. Our processes, governed by our Product Chemical Compliance Policy, aim to reduce or eliminate substances of concern, including PFAS (Perfluoroalkyl and Polyfluoroalkyl Substances) and other substances listed under REACH and TSCA, throughout the supply chain and product lifecycle, and we maintain up-to-date records of compliance for relevant components and materials.

Conclusion

Veeco is committed to the highest standards of product safety and compliance. Through systematic risk assessment, rigorous validation, adherence to international standards, and a culture of continuous improvement, we endeavor to ensure that our products are safe and compliant for all users and stakeholders.