

HYGIENIC / WASHDOWN

Operator interfaces for high-pressure washdown and sterile environments

MANUFACTURING DATA SHEET

Technical overview of materials, gap-free construction, and sealing solutions engineered for sterile environments and high-pressure cleaning cycles.

GAP-FREE CNC DESIGN

Precision manufacturing focused on eliminating recesses and bacterial traps, supporting strict requirements for easy-to-clean and hygienic surfaces.

WASH-DOWN INTERFACE INTEGRITY

Flush-surface designs and HMI assemblies built to withstand aggressive CIP (Clean-in-Place) agents and high-pressure water.

SEALED TACTILE OPERATION

Integrated switching ensuring precise tactile response and sealing integrity, specifically optimized for longevity under rigorous high-cycle conditions.

CHEMICAL-PROOF SURFACES

High-grade substrates and technical finishes (Brushed 316L, Polyesters) that withstand industrial disinfectants and UV exposure without degradation.

TECHNICAL SPECIFICATIONS OVERVIEW

Base Materials	Stainless Steel 316L, Antimicrobial Polyesters, and FDA-compliant elastomers.
Machining Process	Surface-flush CNC milling, edge rounding, and high-precision drilling to eliminate debris accumulation.
Technical Finishes	Grain 240/320 Brushing, Electropolishing, and high-durability sub-surface screen printing.
Integrated Fasteners	Hygienic standoffs, CD Welded studs, and thermal bonding for IP69K sealing.
Compliance	Build-to-print execution supporting EHEDG, FDA, and IP69K target requirements.

Operational Note: Our workflow is optimized for 100% traceability and elimination of contamination risks through specialized materials and high-precision construction defined in your technical documentation.

Certification Disclaimer: Vermenton manufactures hardware strictly to customer CAD/BOM and specifications. While we ensure the mechanical integrity required for sterile systems, the final certification (EHEDG, 3-A, FDA, etc.) remains the responsibility of the product owner and the corresponding notified body process.