

5 GOOD REASONS

WHY **YOU** SHOULD SPECIFY

FM & ATEX APPROVED STATIC GROUNDING CLAMPS

**DANGER**
Static hazard**ATEX**

When flammable or combustible products are being handled and processed in hazardous areas it is essential to specify certified equipment that will protect personnel from sources of electrostatic ignition. **STATIC Grounding CLAMPS** with **combined FM & ATEX APPROVALS** are rigorously tested and certified to ensure they are capable of dissipating static charges from potentially charged equipment. This is especially significant when the equipment can be covered in coatings, product deposits or rust that is capable of preventing the clamp from making low resistance electrical contact with the equipment to be grounded, preventing the safe transfer of electrostatic charges from the equipment to the designated earth grounding point.

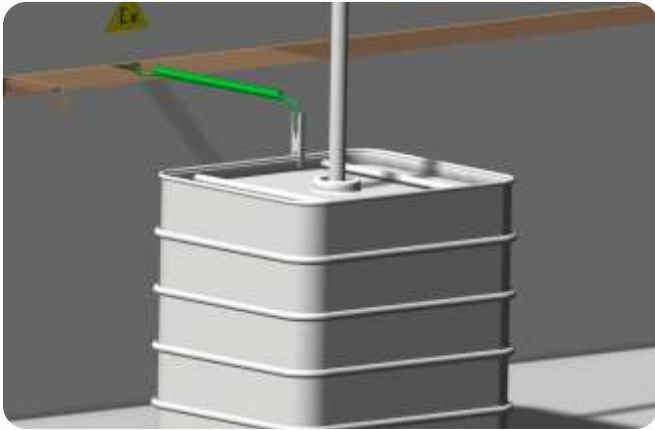
5 good reasons to specify FM & ATEX approved clamps.



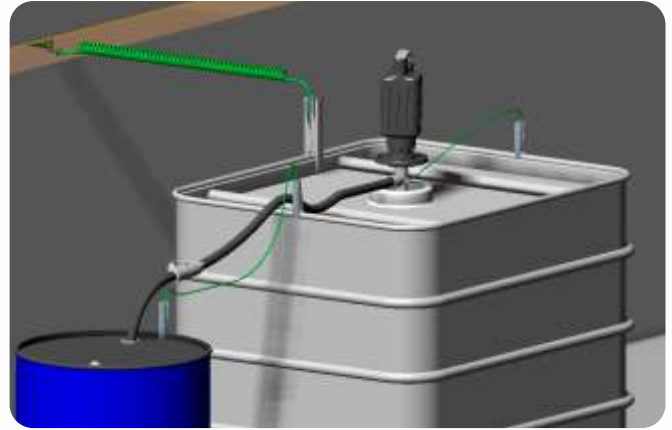
Hardened Tungsten Carbide Teeth, in combination with positive spring pressure, penetrate layers of electrical insulation (e.g. coatings, rust, product deposits).

- 1. Clamp Pressure Testing (FM test standard).**
Ensures the clamp is capable of establishing and maintaining low resistance electrical contact with the equipment to be grounded.
- 2. Electrical Continuity Testing (FM test standard).**
Ensuring the continuity from the tips throughout the clamp is less than 1 ohm.
- 3. High Frequency Vibration Testing (FM test standard).**
Ensures the clamp is capable of maintaining positive contact when attached to vibrating equipment.
- 4. Mechanical Pull Testing (FM test standard).**
Ensures the clamp cannot be pulled off the equipment to be grounded without an intentional application of force.
- 5. Sources of mechanical sparking (ATEX Directive).**
Ensures no mechanical sparking sources are present in the grounding clamp.





Large objects, like IBCs, should be grounded with a clamp that is capable of making, and maintaining, good electrical contact for the duration of the filling process. Along with the dual benefits of ATEX & FM approvals, the VESX90 clamp provides the best combination of size and functionality to clamp onto large objects requiring static grounding protection.



When transfers between containers are being carried out all parts of the transfer system, including pumps and hoses, should be bonded together and connected to a verified earth grounding point. Flexible combinations of VESX45 clamps can be used to bond and ground open top & closed drums, cans and other containers that require static grounding protection.

! WARNING ! - drums and containers can have typical coating thicknesses of **675 micro-metres**. Product deposits on drums and containers can result in thicknesses of up to **several millimetres**. The flat surfaces of basic **welding clamps** and **battery clips** are not designed to penetrate such coatings. It is of critical importance to specify clamps that can make regular and positive electrical contact with the conductive parts of the container. This will ensure that every time a process capable of generating static charges is carried out the risk of an incendive static spark discharge is reduced to an acceptable level.



VESX45 / 3m cable

All **Stainless Steel** clamp with 3m of static dissipative Hytel protected cable.
Clamp dimensions: 120 mm (4.7 inches)
RS Stock Code: 737-9619



VESX45 / 5m cable

All **Stainless Steel** clamp with 5m of static dissipative Hytel protected cable.
Clamp dimensions: 120 mm (4.7 inches)
RS Stock Code: 385-673



2 x VESX45 / 3m cable

One pair **Stainless Steel** clamps joined by 3m of static dissipative Hytel cable.
Clamp dimensions: 120 mm (4.7 inches)
RS Stock Code: 737-9628



Static Discharge Reels

All **Stainless Steel** clamp with 6m, 9m or 15m of Hytel coated galvanised stainless steel coated cable.
RS Stock Codes: 7800006 7800012 7800015 7800018



VESX90 / 5m cable

All **Stainless Steel** clamp with 5m of static dissipative Hytel protected cable.
Clamp dimensions: 235 mm (9 inches)
RS Stock Code: 385-689



Bond-Rite / 5m cable

Bond-Rite **SELF-TESTING** clamp with 10 ohm connection provided by pulsing LED. 5m of dissipative Hytel protected cable.
Clamp dimensions: 235 mm (9 inches)
RS Stock Code: 432-0566



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