

5 GOOD REASONS

WHY **YOU** SHOULD SPECIFY

FM & ATEX APPROVED STATIC GROUNDING CLAMPS

**DANGER**
Static hazard

APPROVED

**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.

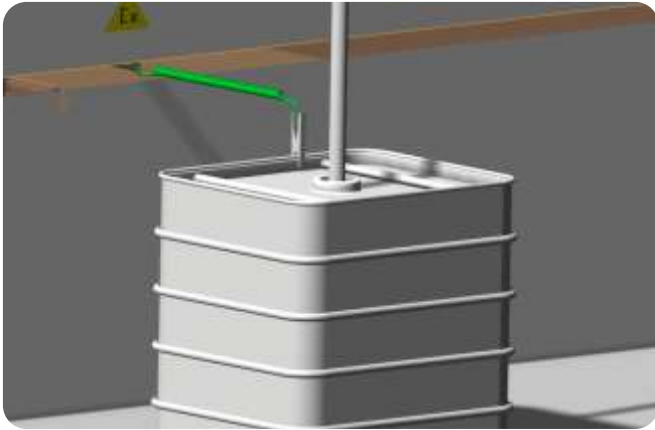
5 good reasons to specify FM & ATEX approved clamps.



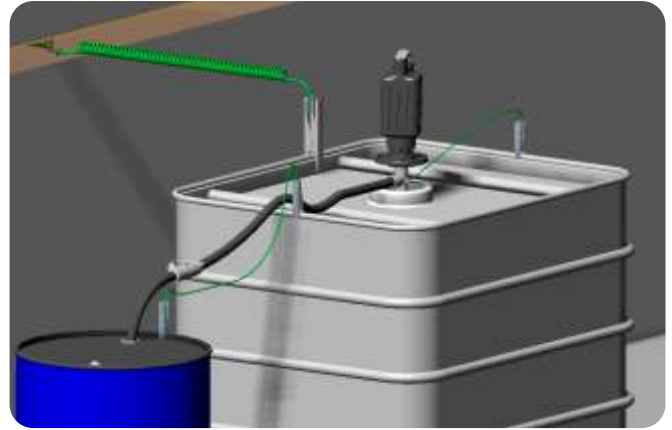
Hardened Tungsten Carbide Teeth, in combination with positive spring pressure, penetrate layers of electrical insulation (e.g. coatings, rust, product deposits).

- 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.



Static grounding clamps with combined FM and ATEX approvals



Stainless Steel **VESX45** clamp with 3 mtrs., 5 mtrs. or 10 mtrs. of Cen-Stat cable.
Clamp dimensions: 120 mm (4.7 inches)



Stainless Steel **VESX90** clamp with 3 mtrs., 5 mtrs. or 10 mtrs. of Cen-Stat cable.
Clamp dimensions: 235 mm (9 inches)



Stainless Steel **VESX45** or **VESX90** clamp with 6.1 mtrs., 9.2 mtrs. or 15.2 mtrs. of hi-vis cable.



One pair of Stainless Steel **VESX45** clamps joined by 3m of Cen-Stat cable.
Clamp dimensions: 120 mm (4.7 inches)

The FM & ATEX Static Grounding Clamps and Cables forms part of the Cen-Stat range of Static Grounding and Bonding Equipment available from Newson Gale



Leading the way in hazardous area static control

www.newson-gale.com



Newson Gale Inc
460 Faraday Avenue
Unit B, Suite 1
Jackson, NJ 08527
USA

Tel: +1 732 961 7610

Fax: +1 732 791 2182

Email: groundit@newson-gale.com



Newson Gale GmbH
Ruhrallee 185
45136 Essen
Deutschland

Tel: +49 (0)201 89 45 245

Fax: +49 (0)201 42 60 026

Email: erdung@newson-gale.de



Newson Gale Ltd
Omega House
Private Road 8
Colwick, Nottingham
NG4 2JX, UK

Tel: +44 (0)115 940 7500

Fax: +44 (0)115 940 7501

Email: groundit@newson-gale.co.uk