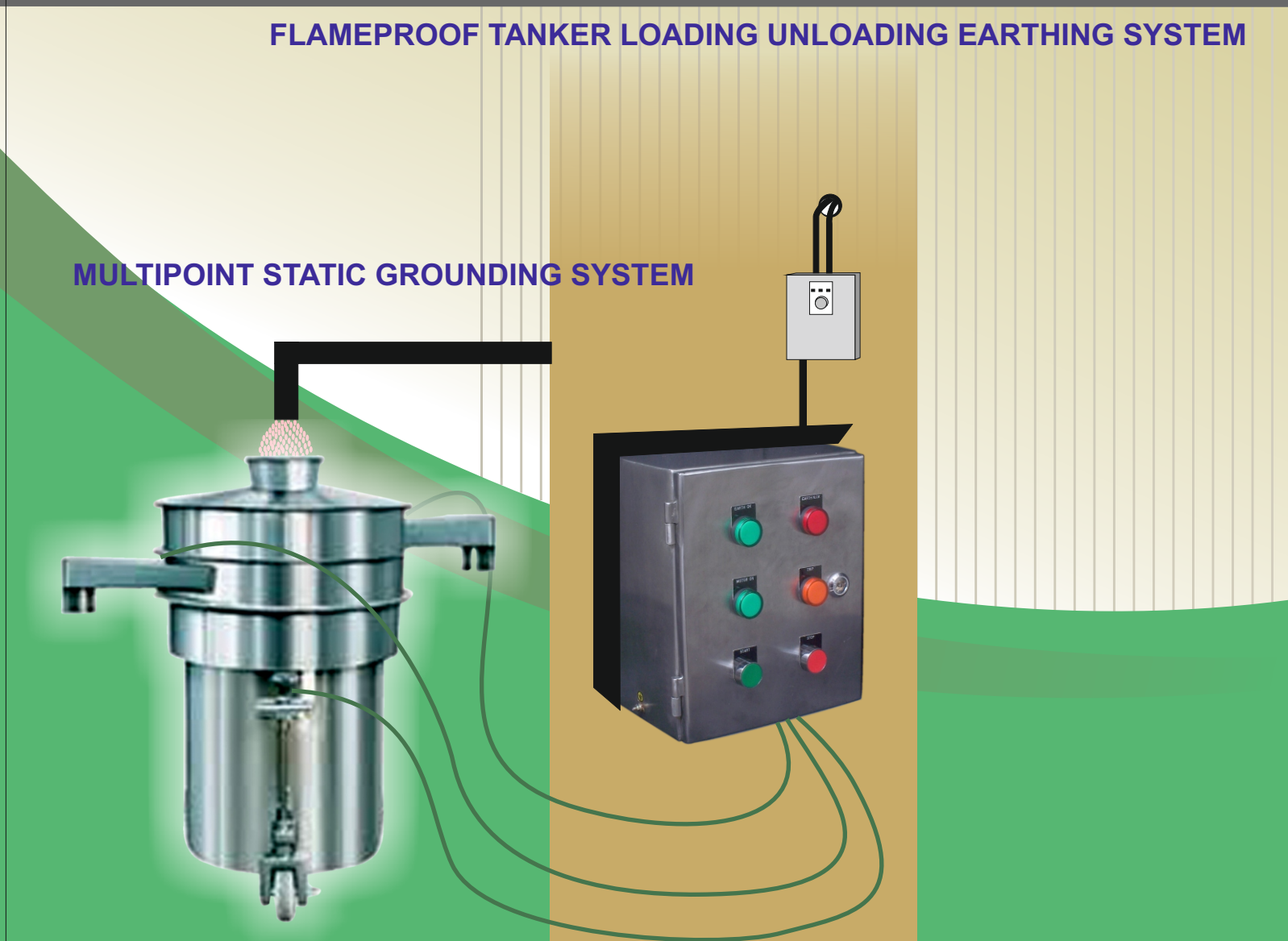




FLAMEPROOF TANKER LOADING UNLOADING EARTHING SYSTEM



MULTIPOINT STATIC GROUNDING SYSTEM



FLAME PROOF EARTHING SYSTEM FOR TANK TRUCK LOADING - UNLOADING



FLAME PROOF EARTHING SYSTEM WITH BUILT IN STARTER INTER LOCKED



S.S. PANEL TYPE FOR SIFTER M/C



S.S. CONCEAL TYPE FOR SIFTER MACHINE



FLAME PROOF MOBILE EARTHING SYSTEM

Tank Truck Loading Unloading Earthing System

- Electronic Grounding System provides failsafe tanker loading and unloading
- Confirms *clamp* is connected to road tanker and not other unearthed objects.
- Verified low resistance <10 OHM connection to true earth.
- A continuously monitored tanker to grounding point connection resistance is low good enough throughout product transfer process to avoid transfer of static charge.
- Provides visual **Green** indication of earth ok and **Red** for not ok.
- System is provided with flameproof audio alarm for one min if earth is not ok.
- Provides potential free contact to interlock the system which automatically stop the process.
- Instrument is suitable for group IIA/IIB hazardous area and for IIC on demand.

Flexibility :

- Can be mounted at remote loading stations and connected to locally verified earth points and can reduce the cost of installation and maintenance.

Reliability :

- System is Independently tested and approved for mounting in group IIA/IIB hazardous atmosphere.
- Confirming the 08 year track record of proven system reliability and performance.

Compliance :

- System compliance with the best practice guidelines which recommend that road tankers present in hazardous atmospheres be fully earthed prior to and during the through out transfer.

Applications :

- Chemical tankers loading/unloading
- Petrol tanker loading /unloading
- API solvent couplers.

Multiple Bonding Earthing System

A **Bonding** system connects various pieces of conductive equipment together to keep them at the same potential. Static sparking cannot take place between objects that are the same potential.

In potentially-flammable locations, all conductive objects that are electrically isolated from ground by nonconductors such as nonconductive piping or hoses, flexible hoses, flexible connections, equipment supports, or gaskets, should be bonded. An isolated, conductive object, can become charged sufficiently to cause static spark. Objects which can become isolated include screens, rims of nonconductive drums, probes, thermometers, spray nozzles, and high pressure cleaning equipment.

Bonding and grounding cables must be durable and of low resistance. Connections of bonding conductors to process equipment must be direct and positive for portable equipment, un-insulated copper or stainless steel, aviation-type flexible cable and single-point clamps, should be used. These clamps will make contact with metal surfaces through most paint, rust and surface contaminants

Grounding is a special form of bonding in which conductive equipment is connected to an earthing electrode or to the building grounding system in order to prevent sparking between conductive equipment and grounded structures.

A continuously monitored grounding system can provide clear indication that a ground connection has been made and static electricity is being dissipated. They can be interlocked with filling equipment, computer systems and more to control access when a ground connection is or is not present.

Applications :

Sifter Machine, Dust Collector and other Static charge accumulating process equipments.

Basic Specification

Monitored	: Low resistance >10 ohms
Status Indication	: Red / green LED indication.
Power Supply	: 230 v AC / 24 v DC
Output -01	: 1 C/O potential free relay contact to enter lock system
Output -02	: 1 C/O 230 v AC contact for flameproof hooter IIA / IIB
Weight	: 15kg along with flameproof hooter & S.S. mounting plate
Enclosure Materials	: Die cast aluminum
Protection	: Flameproof : IP66 IIA/IIB optional IIC
Ambient Temperature	: -25°C to +55°C
Ground clamp	: Universal heavy duty ground clamp suits all common tankers, drums, conductive plant equipment
Earthing Cable	: 10 sq.mm x 7 mtr. - 2 Nos.