

Outline of ATEX directive :

Since 1st July 2003, equipment and protective system used in potentially explosive atmospheres within the EU are required to comply with the ATEX directive 94/9/EC.

ATEX definitions

Potentially explosive atmospheres are atmospheres likely to become explosive due to local and operational conditions. (Quotation from Directive 94/9/EC)

The ATEX directive regards **explosive atmospheres** which are defined as **mixtures**

- **with air,**
- under atmospheric conditions,
- **of flammable substances in the form of gases, vapours, mists or dusts**
- in which, after ignition has occurred, combustion spreads to the entire unburned mixture.

The standard NF EN 1127-1: 2011 & EN 13463-1 2009 give the list of the generation of ignition sources and installation recommendation :

Our Connectic products are concerned due to the electricity static phenomenon which can arise under normal operational conditions in pneumatic applications.

Therefore, they can be applied in category 3, zone 2 and 22.

Exclusion of application field

- Medical devices
- Equipment or safety devices to be used with explosive or chemically unstable substances
- Equipment for domestic and non-commercial environments with explosive atmosphere generated by leakage of fuel gas,
- Personal protective equipment according to 89/686/CEE directive
- offshore vessels,
- Mobile units and means of transport,
- **All products without their own ignition source,**
- All machines and installations including a voluntary internal explosive atmosphere but unintended to work in explosive atmosphere
- Equipments intended to military aim

CLASSIFICATION ZONE(*)

Directive 1999/92/EC

The ATEX directive defines categories of equipment and protective systems, which can be used in the corresponding zones as per the following table.

Zone		Equipment category	Presence of the explosive atmosphere
Gas	Dust		
0	20	1	Continuously or for long periods >1000 hours/year
1	21	2	Occasionally 10~1000 hours/year
(1) 2	22	3	Rarely or for short periods <10 hours/year

(*) Classification forecast to be modified in 2013

(1) Potentially Zones for LEGRIS' products applications