



**BOISWOOD**  
GAS AND LIQUID CONTROL TECHNOLOGIES



**ATEX**  **PLAINED**

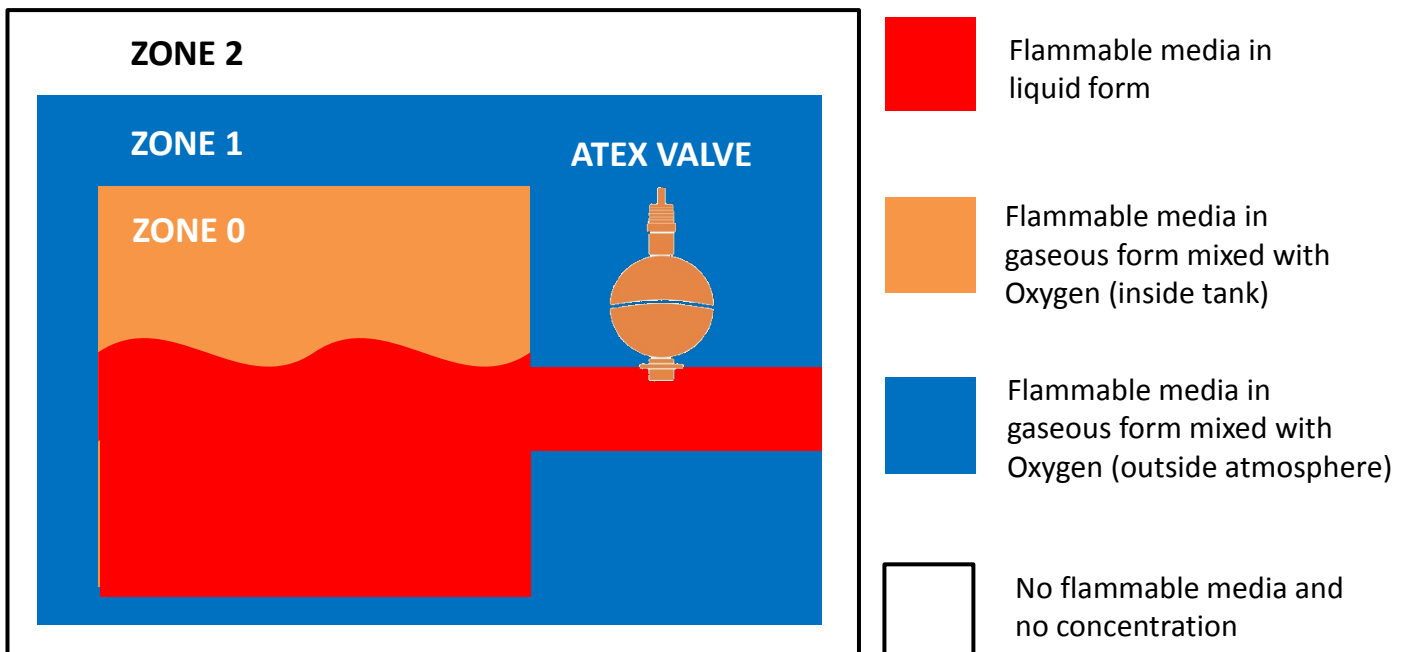
The ATEX Directive 94/9/EC controls all manufacture and import of equipment for use in explosive atmospheres, including non-electrical items.



ATEX requires that the equipment be safe and bear a label indicating the conditions under which it is approved for use.

ATEX covers equipment that falls into three criteria:

1. It must be purposely designed for use within an explosive atmosphere at ambient conditions
2. The atmosphere may contain gas, vapour, mist or dust as a fuel, but must be based on air as the oxidiser
3. The equipment must have an ignition source in and of itself, such as a spark or a hot surface.



## Equipment Group

- I For use in underground mines
- II For use in all other places

## Gas Group / Subgroup

- I For use in underground mines
- II For use surface above ground
- A Less easily ignited gases (eg. Propane)
- B Easily ignited gases (eg. Ethylene)
- C Most easily ignited gases (eg. Hydrogen)

## Gas / Dust

- G Certified for use in flammable gases
- D Certified for use where dust is present



**II 2 GD EEx ia IIB T4**

## EU Explosive Atmosphere Symbol

In accordance with the ATEX directive

## Type of Protection

EEx ia	Intrinsically Safe
EEx d	Flameproof
EEx e	Increased Safety
EEx p	Pressurisation
EEx q	Powder Filling
EEx m	Encapsulation
EEx o	Oil Immersion
EEx nA	Non Sparking
EEx nR	Restricted Breathing
EEx nL	Energy Limited
EEx nC	Enclosed Break

## Temperature Rating

<b>T1</b>	Up to 450°C
<b>T2</b>	Up to 300°C
<b>T3</b>	Up to 200°C
<b>T4</b>	Up to 135°C
<b>T5</b>	Up to 100°C
<b>T6</b>	Up to 85°C

## Equipment Category

- 1 Equipment for use in areas with a continuous explosive hazard
- 2 Equipment for use in areas where an explosive hazard may occur
- 3 Equipment for use in areas where an explosive hazard is unlikely