



Abstract

Session 33: Design & Engineering II

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Title

33-3: ATEX: from the perspective of a compressor manufacturer

Summary

As long standing manufacturers of oil-free piston compressors for hazardous gasses, such as natural gas, methane, fermentation gas, hydrogen, etc., we have become experts in this field.

Problems related to ATEX often appear at the interface between the customer and sales person. They may be caused by communication issues or the superficial consideration of a both, customer

specifications and technical details. Such problems could be easily avoided using a few principles.

These can then be phrased into two main solvable queries, which could be discussed by the customer and the sales person.

Firstly, which classification applies to the installation site? Secondly, what is the exact chemical composition of the gas and what are its variables? Dealing with these queries will be the main concern of this presentation.

In addition, the relationship between the European ATEX Directive and the explosions directives in

non-European countries will be considered. Particular focus will be placed on the USA and China.