

Manufacturer's declaration

On Directive 2014/34/EU

Equipment, protective systems and components intended for use in potentially explosive atmospheres

The company Eisele Pneumatics GmbH & Co. KG declares that all catalogue products with exception of series 1600 and 3800 are not covered by the explosion protection directive 2014/34/EU, as they are neither „equipment“ in the meaning of article 2, paragraph 1 nor „protective systems“ in the meaning of article 2, paragraph 2. Furthermore, the components do not fall within the scope of the Directive, as the components are not explicitly intended for use in equipment and protective systems intended for use in potentially explosive atmospheres (Article 1, paragraph 1c)).

The 1600 and 3800 series of the „Freeline“ product line fall within the scope of Article 1, paragraph 1c of Directive 2014/34/EU. The evaluation of potential ignition sources according to DIN EN ISO 80079-36 for both series mentioned above shows that the products do not have their own „potential ignition source“. Therefore, no declaration of conformity is required for these products when used in potentially explosive atmospheres.

When installing catalogue products or Series 1600 and 3800 in equipment and protective systems for intended use in potentially explosive atmospheres, an ignition risk assessment of the entire system must be carried out by the customer.

It is recommended to include the following information in the customer's ignition source analysis of the entire system. Depending on application and especially when using electrical products, further influencing factors may have to be considered.

1. The ignition risk depends on the application.
Assembly and disassembly should also be performed if an explosive atmosphere can be excluded.
2. The projected surfaces of all polymeric seals are smaller than 2000 mm².
3. Spiral springs used to reset the pistons/valves have a maximum potential energy of less than 60 joules.
4. The connected hose must also be considered in the analysis of the entire system.

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