


## ATEX CODING DESCRIPTION

	II	2	G	Ex	h	IIC/B/A	T6...T4	Gb	D	IIIC	T95°C	Db
①	②	③	④	⑤	⑥	⑦	⑧	⑨	⑩	⑪	⑫	⑬

- ① Explosive atmospheres ATEX 114  
 ② Equipment group II  
 ③ Equipment intended for use in Zone 1 / 21  
 ④ Gas  
 ⑤ Explosive atmospheres  
 ⑥ Constructional safety ("c") danger of inflammation is eliminated by good design (EN-ISO/-IEC 80079-37)  
 ⑦ Gas Group IIC, IIB, or IIA  
 ⑧ (T6 ≤ 85 °C) (T5 ≤ 100 °C) (T4 ≤ 135 °C) Temperature Class T6-T4  
 ⑨ Equipment Protection Level (EPL) for Gas, zone 1  
 ⑩ Dust  
 ⑪ Dust Group IIIC, suitable for combustible flying's and non-conductive dust and conductive dust  
 ⑫ Maximum surface temperature with respect to dust layers  
 ⑬ Equipment Protection Level (EPL) for Dust, zone 21

## SUITABILITY OF DIAPHRAGM MATERIALS

The relation between the diaphragm material and its suitability for use with the process liquid is given in the table below, based on the test method of EN ISO 80079-36, Annex D.

Diaphragm Material	Pump Size	Diaphragm Type	Suitable for Process Liquids of Gas Group
PTFE	80	T	IIA
PTFE	32, 40 and 50	T	IIB
PTFE	25 and smaller	T	IIC
TPO	80	S	IIB
TPO	all sizes except for 80	S	IIC
TPEE	all sizes	H	IIC
EPDM	all sizes	E	IIC
FKM	all sizes	V	IIC
NBR	all sizes	N	IIC
CR	all sizes	C	IIC
PTFE/EPDM	all sizes	TU	See Specific Conditions of Use
PTFE/CR	all sizes	G	See Specific Conditions of Use

## SPECIFIC CONDITIONS OF USE

The user of the pump and dampener shall provide relevant information regarding the intended use (e.g. process liquid) to the manufacturer for selection of suitable materials.

The external non-metallic parts of the pumps and dampeners shall be protected from ultraviolet light by installation.

The actual use shall be within the specified limits and within the ratings as shown on the nameplate of the pumps and dampeners. Depending on the applied pump materials and the intended use; e.g. a non-conductive process liquid and a high liquid flow, electrostatic charging of these materials may be possible. The user shall conduct an assessment regarding the risk of electrostatic charging and, if applicable, shall take appropriate measures to reduce this risk to an acceptable level. For the diaphragm materials the suitability as shown above can be used for the assessment.

In case of application of diaphragm type TU or G the assessment shall show its suitability.

In case of application of diaphragm type T or S the assessment may show a wider suitability