

## ATEX-Directive 94/9/CE

### Categorization and Marking of KLINGER-Valves according to EN 13463-1 (non-electrical equipment for potentially explosive atmospheres)

KLINGER-Valves concerned:

- Ball valves Type KHA
- Ball valves Type KHC
- Ball valves Type KHI
- Ball valves Type KHE
- Piston Valves Type KVN
- Piston Valves Type KVI

Possible Ignition Source			Prefaced method to prevent the operation of the ignition source	Applied ignition protection
Normal Service	Predictable faults	Seldom faults		
Frictional heat of moving parts		Not applicable	The relative movement of mechanical or automatic operated parts have a slow velocity. There is neither a risk for an excessive heat over 80 °C, nor the emergence of a shock between the individual parts.	Safety design „c“
Electrostatic discharge		Not applicable	Antistatic-test according to EN 12266-2 /F21	Safety design „c“

Marking: **II 2 DG c T**

- II (= component group; I=underground, II=others)
- 2 (= component category 2 for zone 1)
- DG (=medium, D=dust, G=gas)
- C (= type of ignition protection, C=safety design)
- T (= temperature class, in case of KLINGER-valves the maximum allowable temperature in °C)

- KHA = II 2 DG c 300°C
- KHC = II 2 DG c 200°C
- KHI = II 2 DG c 180°C (260°C at type KHWI)
- KHE = II 2 DG c 300°C
- KVN = II 2 DG c 400°C
- KVI = II 2 DG c 400°C

