

ATEX-Checklist

acc. EU Directives 94/9/EC and 1999/92/EC



to be filled by customer: or

Operating Data	
Volume flow rate:	Static pressure: Pa inlet side / outlet side: / %
Density: kg/m ³	Inlet temperature normal: °C max.: °C min.: °C
Installation: <input type="checkbox"/> outdoors <input type="checkbox"/> indoors <input type="checkbox"/> in a ventilated area	

The Devices group and category has to be defined by customer:

Devices Group	Frequency of the explosion hazard acc. to the purchasers analysis	Zone	Zone		Devices Safety	Devices category	Devices category	
			inside	outside			inside	outside
I Devices / Fans for mining	permanently present		<input type="checkbox"/>	<input type="checkbox"/>	Very high degree	M1	<input type="checkbox"/>	<input type="checkbox"/>
	present		<input type="checkbox"/>	<input type="checkbox"/>	High degree	M2	<input type="checkbox"/>	<input type="checkbox"/>
II Devices / Fans for all other areas except I (Explosives mixtures containing air, gas, vapour, mist and dust atmospheres) Important Note: <i>Due to the results of the risk assessment it could be unconditional necessary to use devices / fans of the higher-grade ATEX category 1 or 2 for Ex zones 1,2,21 and 2</i>	permanently, long-term or frequently present	Zone 0 Gas (G)	<input type="checkbox"/>	<input type="checkbox"/>	Very high degree (Safety at normal operation conditions, expected malfunction and rare malfunction)	1 G	<input type="checkbox"/>	<input type="checkbox"/>
		Zone 20 Dust (D)	<input type="checkbox"/>	<input type="checkbox"/>		1 D	<input type="checkbox"/>	<input type="checkbox"/>
	occasionally present	Zone 1 Gas (G)	<input type="checkbox"/>	<input type="checkbox"/>	High degree (Safety at normal operation conditions, expected malfunction)	2 G	<input type="checkbox"/>	<input type="checkbox"/>
		Zone 21 Dust (D)	<input type="checkbox"/>	<input type="checkbox"/>		2 D	<input type="checkbox"/>	<input type="checkbox"/>
	nor or rarely and if only short-term present	Zone 2 Gas (G)	<input type="checkbox"/>	<input type="checkbox"/>	Normal degree (Safety at normal operation conditions)	3 G	<input type="checkbox"/>	<input type="checkbox"/>
		Zone 22 Dust (D)	<input type="checkbox"/>	<input type="checkbox"/>		3 D	<input type="checkbox"/>	<input type="checkbox"/>

*) technically not realised yet !

Compounds of explosible substances:

a) Gases, Vapours and Mists:

Explosion group: IIA IIB IIC for Zone 0 indicate standard gap:

Characteristics of the gas: corrosive toxic

b) Dusts: Dust content: g/m³

Characteristics of dust: Electrically conductive Abrasive Sticky

c) Others:

Temperature class / Ignition temperature	Gases: T1 <input type="checkbox"/> >450°C T2 <input type="checkbox"/> >300°C T3 <input type="checkbox"/> >200°C T4 <input type="checkbox"/> >135°C T5 <input type="checkbox"/> >100°C T6 <input type="checkbox"/> >85°C
	Dusts: T125°C <input type="checkbox"/> T = °C <input type="checkbox"/> Inflammation point – as layer..... °C - as cloud..... °C

Material resistance: (if known)

C. Steel Stainless Steel Nickel-alloyed steel Coated Steel

FPM EPDM PTFE

Required design:

Direct (Impeller mounted on motor shaft) Belt drive Drive through elastic coupling

Motor:

Kat.2G, EExd Kat.2G, EExde Kat.2G, EExe Kat.3G, EExnA Kat.2D(IP65) Kat.3D(IP55) Standard

Operation by frequency inverter: No Yes, from Hz to Hz

Customer Name: Date: Signature: