

Small-parts conveyor drives and bowl feeder drives for potentially explosive atmospheres

Products for potentially explosive areas governed by new legal position since 01.07.2003

Directive 94/9/EC - also known as the ATEX Directive - which governs the marketing and use of operating materials for potentially explosive atmospheres has been applicable within the European Union since the 1st of July 2003. Directive 94/9/EC affects both the manufacturer of products for potentially explosive atmospheres and the operating company of systems used in potentially explosive atmospheres.

This new legal position classifies products into two equipment groups. Equipment group I includes all products used for underground operations in mines as well as their bank-head installations that could be at risk from mine gas and/or flammable dusts. Equipment group II includes all products that can be used in all other areas at risk from a potentially explosive atmosphere. Each equipment group has different categories to which an appropriate safety level is assigned. Further zones are assigned to these categories. The three-level zone division creates two distinct zones - the gas zone (G) and the dust zone (D) - for equipment group II. The new Directive 94/9/EC replaced the two-level zone division in the dust zone (as defined by the old legal position) by a three-level zone division. The operating company is responsible for the zone classification.

The table below shows an overview of the new division.

Equipment group	Group I		Group II					
Category	M1	M2		1	2		3	
Safety level	very high	high	very high		high		standard	
Zone	-	-	G (Gas)	D (Dust)	G (Gas)	D (Dust)	G (Gas)	D (Dust)
assignement			Zone O	Zone 20	Zone 1	Zone 21	Zone 2	Zone 22

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Requirements for the manufacturer:		Manufactu	rer must	Manufacturers must			
			operate an ATEX-		present a Declaration		
			compliant an	d certified	of Conformity to		
			Quality Assurance		demonstrate		
			System.		compliance with the		
			This cate	gory of	direc	ctive.	
		products i	must be				
		covered by a	n EC Type				
		Examin	ation				
		Certification	n from an				
		external Noti	ified Rody				

AVITEQ Vibrationstechnik GmbH offers bowl feeder drives backed by the required Type Examination Certifications for both the dust (D) and gas (G) zones in the dosing and feed technology sector. AVITEQ Vibrationstechnik operates an ATEX-compliant Quality Assurance System. All stated products are backed by the required Type Examination Certifications presented in both German and English.



Bowl feeder drives



Type: eTFH 280... (Ex) 105...115 V - 50/60 Hz 220...240 V - 50/60 Hz

eTFH 400... (Ex) 220...240 V - 50/60 Hz

AVITEQ AVITEO Vibrationstechnik GribH D-65795 Hattershein-Eddershein www.aviteq.de						
BVS AT	Year 2009 CC					
2 D Ex 1D	A21 IP65	T100°C	CE ₀₁₅₈			
Type eTFH	(Ex)	min ⁻¹	I _A /I _N			
Serial no		kW out	t _E > min			
V V	А	G _n kg	<u></u>			
₩ DIN VDE 0580	50 Hz	Made in Gerr	папу Ф			

II Equipment group II

2 Category 2

G, D Gas (G), Dust (D)

Ex Explosion-proof electrical apparatus according to EN 60079-.. and EN 61241-..

e Type of protection "increased safety"

IIB Affiliation to the relative gas group

T5 Temperature class

tD Type of protection for areas with the presence of combustible dust "tD", protection by enclosures

A21 Approval in accordance with the procedure A for zone 21 (dust)

IP65 Degree of protection

T 115°C Maximum surface temperature at the equipment