

ATEX check list

According to directive 2014/34/EU



For the design of pumps according to EU Directive 2014/34/EU, the operating company is required to fill out this checklist, and all questions regarding explosion protection measures must be clarified.

Details marked with ** will be filled out by the manufacturer.

** Sequence number:

Operating data per pump:

Country of installation:

Certification motor:

Rated frequency: Hz;

Rated voltage: V

Duty point per pump	Duty point 1	Duty point 2	Duty point 3
P&ID TAG number (if available)			
Medium			
Density (kg/m ³)			
Viscosity (mPas)			
Temperature (°C)			
Flow rate (m ³ /h)			
Req. diff. pressure (bar)			
Min. inlet pressure (barg)			
Max. inlet pressure (barg)			
Res. pressure level (PN)			
Ambient temperature (°C)			
Self-priming needed	Yes	No	
** Motor speed (1/min)			
** NPSH _{required} (m)			

For flushed mechanical seal:

Operating conditions for flushing media must be observed according to the operating manual!

Equipment group	Probability of occurrence of EX atmosphere	Zone classification	Equipment safety	Equipment category
I Equipment for underground mines	Constantly present		Very high level	M1
	Present		High level	M2
II Devices for all other areas except for I (mixtures of air and gases, vapors, mists and dusts)	Constantly, long-term or frequently present	Zone 0 Gas (G)	Very high level (Safety during normal operation and also during infrequently occurring malfunctions)	1G
		Zone 20 Dust (D)		1D
	Occasionally present	Zone 1 Gas (G)	High level (Safety in case of occurrence of frequent malfunctions and error conditions)	2G
		Zone 21 Dust (D)		2D
	Not or rarely present and then only for a short time	Zone 2 Gas (G)	Normal level (Safety during normal operation)	3G
		Zone 22 Dust (D)		3D

Composition of the explosive substances/media:

Type	Explosion group	Characteristics
Gases, vapors, mists	IIA IIB IIC	corrosive toxic

Type	Explosion group	Characteristics
Dusts	IIIA IIIB IIIC	electrically conductive abrasive adhesive dust content: g/m ³

Temperature class/ignition temperature

Gases: T1 T2 T3 T4 T5 T6
 > 450 °C > 300 °C > 200 °C > 135 °C > 100 °C > 85 °C

Dusts: T=125 °C T= °C
 Ignition temperature of the dust/air mixture: °C

Material resistance:

1.4404 (AISI 316L)	1.4435 (AISI 316L)	1.4539 (AISI 904L)
EPDM HNBR	FKM VMQ	

** Frequency range approved: from Hz up to Hz
** Serial number:
** Pump designation:
** ATEX indication:
** Design and technical clarification by:

ATEX and operating conditions determined and confirmed by engineering/planning company:

Company:
Contact person:
Phone number:
E-Mail address:
Project number/name:

Place/Date

Signature (engineering, planning)

ATEX and operating conditions determined and confirmed by operating company:

Company:
Contact person:
Phone number:
E-Mail address:
Project number/name:

Place/Date

Signature (operating company)