



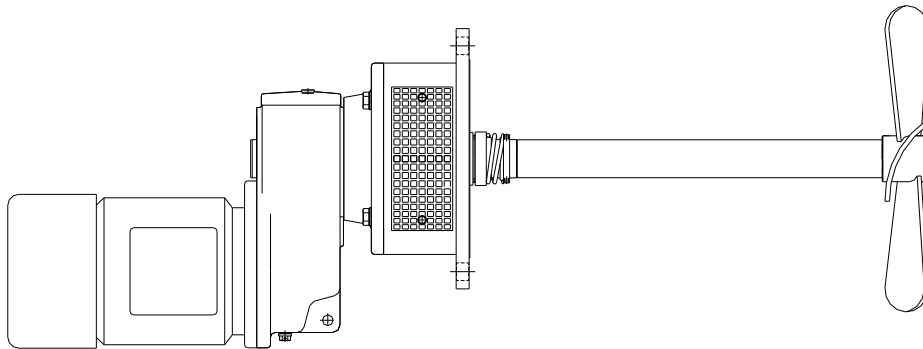
INSTALLATION, SERVICE AND MAINTENANCE INSTRUCTIONS

ANNEX FOR EC ATEX REGISTERED EQUIPMENT UNDER DIRECTIVE
2014/34/EU:

LR Ex BOTTOM SIDE AGITATOR

The contents of this Annex complements the information included in the instruction manual. The instructions of this Annex must be observed whenever equipment registered under Directive 2014/34/EU is used.

This Annex is to be added to the manuals of the ATEX registered components that form part of the assembly (e.g. reducer, etc.).



Original Manual

20.063.30.01EN
(A) 2022/10

EU Declaration of Conformity

We,

INOXPA, S.A.U.

Telers, 60

17820 – Banyoles (Girona)

Hereby declare under our sole responsibility that the machine

BOTTOM SIDE ENTRY AGITATOR

Designation

LR

From serial number **IXXXXXXXXXX** to **IXXXXXXXXXX** ⁽¹⁾

Is in compliance with applicable provisions of the following directive:

Directive ATEX 2014/34/EU

Applicable harmonized standards:

EN ISO 80079-36:2016

EN ISO 80079-37:2016


EN 1127-1:2019


EN 13237:2012


EN15198:2007

EN IEC 60079-0:2018

This Declaration of Conformity covers equipment with the following ATEX marking:

 II 2G Ex h IIB T4...T3 Gb

 II 2D Ex h IIIB T125 °C...T200 °C Db

 II 2G Ex h IIB T4...T3 Gb
II 2D Ex h IIIB T125 °C...T200 °C Db

⁽¹⁾ Where X is a numeric character



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The technical documentation referenced 13215589-774802 is on file with the notified body LABORATOIRE CENTRAL DES INDUSTRIES ELECTRIQUES (LCIE), 33, Av. du Général Leclerc BP 8, 92266 Fontenay-aux-Roses, France. Reference num. 0081.

The person authorized to compile the technical documentation is the signer of this document.

A handwritten signature in black ink, consisting of several overlapping loops and strokes, positioned above the printed name.

David Reyro Brunet
Technical Office Manager

Banyoles, 2022

⁽¹⁾ Where X is a numeric character

1. Safety Instructions

SAFETY INSTRUCTIONS

This Annex to the instruction manual, together with the manual, contains the basic indications which should be fulfilled during the installation, starting and maintenance. Consequently, it is indispensable that prior to the installation, the installer as well as the technical personnel responsible for the plant read this instructions manual and that this remains permanently available in the proximity of the corresponding agitator or installation.

Not only should the safety instructions indicated in this chapter be observed and fulfilled, but so should the special measures and recommendations included in the other chapters of this manual.

SYMBOLS USED

The safety instructions contained in this Annex, whose non-fulfilment could cause a risk for persons or for the machine and its operation, are expressed through the symbols indicated in the following:



Risks of creation of sources of ignition in explosive atmospheres.

GENERAL SAFETY INSTRUCTIONS



- Read the instructions contained in this Annex on a complementary basis with the manual before installing the agitator and starting it.
- The installation and use of the agitator should always be in accordance with applicable regulations in regard to health and safety.
- All the electric work should be carried out by specialised personnel.
- Control the characteristics of the drive and the control board, above all in areas where there is a risk of fire or explosion (classified zones). The responsible person of the user company should define the risk zones (zone 0 – 1 – 2).
- On dismantling the agitator, the possible formation of potentially explosive atmospheres should be considered, for which the responsible person of the user company should issue safe work permits.
- The maximum operating conditions of the agitator should not be exceeded. Do not modify the operating parameters for which the agitator was initially intended, without prior written authorization from INOXPA.
- Under no circumstances should the limit values of working conditions in explosive atmospheres be exceeded.

GUARANTEE

Finally, we should point out that any guarantee issued will be cancelled immediately and as a matter of law and, in addition, we will require compensation for any claims of civil liability presented by third parties in case of non-fulfilment of any of the indications given in the attached annex or:



This agitator was selected according to the operating conditions specified by the user. Therefore, INOXPA disclaims liability for any damage caused by the use of the agitator under conditions other than those set forth in the order.

The General Delivery Terms already provided also apply.

INSTRUCTION MANUAL AND ANNEX FOR ATEX EQUIPMENT

The information published in the instruction manual and in this Annex which complements this is based on updated information. We reserve the right to modify the design and/or manufacture of our products when we consider it opportune, without having any obligation to appropriately adapt any product supplied beforehand.

The technical and technological information issued in this Annex, together with the graphs and technical specifications we provide, will continue to be our property and should not be used (unless it is used for the starting of this installation), copied, photocopied, delivered or communicated to third parties without prior written notice.

INOXPA reserves the right to modify this Annex to the instruction manual without prior notice.

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2. Receipt, storage and transport

RECEIPT

Check the CE ATEX mark inscribed on the manufacturer's plate and confirm that it matches the requirements of the order.

 II 2G Ex h IIB T4...T3 Gb
 II 2D Ex h IIIB T125°C...T200 °C Db

 II 2G Ex h IIB T4...T3 Gb

 II 2D Ex h IIIB T125°C...T200 °C Db

Figure 1.1.: EC ATEX mark inscribed on the manufacturer's plate.

If the equipment mark does not correspond to the order, INOXPA should be immediately informed of the situation.

The temperature class and the maximum surface temperature depend on the temperature of the product to be stirred and the ambient temperature.

Temperature class for explosive gas atmospheres

Temperature class	Product temperature (in process or cleaning)	Room temperature
T4	$\leq 110 \text{ }^{\circ}\text{C}$	-20 °C to +40 °C
T3	$\leq 140 \text{ }^{\circ}\text{C}$	-20 °C to +40 °C

Maximum surface temperature for explosive dust atmospheres

Maximum surface temperature	Product temperature (in process or cleaning)	Room temperature
T125 °C	$\leq 125 \text{ }^{\circ}\text{C}$	-20 °C to +40 °C
T200 °C	$\leq 200 \text{ }^{\circ}\text{C}$	-20 °C to +40 °C

3. Identification, description and use

IDENTIFICATION

The agitator is identified using a rating plate fixed onto the lantern. The type of agitator and the serial number appear on the rating plate.

In addition to the indications provided in the manual, it should be considered that the ATEX equipment will be provided with the corresponding mark.

DESCRIPTION

For the LR bottom side agitators, the drives must be able to work in explosive atmospheres.

SHAFT PACKING

Standard: single mechanical seal.

	Rotary part	Fixed part	elastomers
standard	graphite	silicon	EPDM
optional	graphite	silicon	Viton
	silicon	silicon	EPDM
	silicon	silicon	Viton

4. Installation and assembly

INSTALLATION AND ASSEMBLY



The agitator will always be supplied with the drive; an ATEX agitator will never be supplied without a drive. ATEX certification covers the agitator+drive assembly.

LOCATION

It is very important to be able to access the electric connection device of the agitator, even when in operation.



It should be considered that during any operation of the electric connection equipment there may be a potentially explosive atmosphere, for which safe work permits should be issued.

ELECTRIC CONNECTION

Before connecting the motor to the mains, read the manufacturer's instructions manual. This drive must be flameproof with proper protection for the environment in which it will be functioning.



The electrical equipment, terminals and components of the control systems may still contain electric current when switched off. Contact with them may put the operators' safety and the installation at risk, or cause irreversible damage to the materials. The supplier's indications for safely opening the motor must be followed at all times.



Safe-work permits shall be required to handle the equipment in potentially explosive atmospheres. It is strongly recommended that this type of work be carried out in non-classified atmospheres (i.e. there must not be an explosive atmosphere in the location of the pump when it is being handled).

5. Start-up, operation and shutdown

START-UP



Explosive atmospheres may be generated during the start-up of the agitator, for which safe work permits should be issued and this work should only be carried out by qualified or trained personnel.

OPERATION



Do not modify the operating parameters for which the agitator was selected without prior written authorisation from INOXPA; deterioration may be produced, which is dangerous for the user and there is a risk of forming explosive atmospheres and the creation of sources of ignition.

6. Maintenance and storage



Maintenance work on any equipment intended for use in potentially explosive atmospheres should involve the adoption of safe work permits as stipulated by Directive 1999/92/CE.

MAINTENANCE



The possible presence of explosive atmospheres or the formation of these during the maintenance work should be considered, for which safe work permits should be issued.



The maintenance of the drive should be carried out according to the manufacturer's indications (See instruction manual).



Use technically adequate tools for the maintenance and repair work. In case the zone is not declassified, all the tools should be explosion-proof and safe work permits should be issued.

8. Assembly and disassembly



The assembly and disassembly work of any equipment to be used in potentially explosive atmospheres should involve the adoption of safe work permits, in accordance with that specified by Directive 1999/92/CE.



Both assembly and disassembly of the agitators should be carried out by qualified personnel, using only appropriate tools, as well as adequate work methods.



Use technically adequate tools for the maintenance and repair work. In case the zone is not declassified, all the tools should be explosion-proof and safe work permits should be issued.