INSTALLATION, SERVICE AND MAINTENANCE INSTRUCTIONS

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

SILPIG SYSTEM

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

If applicable, this Annex is complemented with the manuals of ATEX registered components which form part of the assembly (e.g., actuating carriage).

Original Manual

13.001.30.01EN

(0) 2022/11

EU Declaration of Conformity ATEX 2014/34/EU

We,

INOXPA, S.A.U.
Telers, 60
17820 – Banyoles (Girona)

Hereby declare under our sole responsibility that the machine

FLUID RECOVERY SYSTEM

Model
SILPIG

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

Fulfills (2) all the relevant provisions of Safety and Health from ATEX 2014/34/EU Directive and are adapted to the harmonized norms:

EN ISO 80079-36:2016
EN ISO 80079-37:2016
EN 1127-1:2019
EN 13237:2012
EN 15198:2007

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

II 2G Ex h IIB T6…T3 Gb
II 2D Ex h IIIB T85 ºC…T200 ºC Db

The technical documentation referenced 169362-757096 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.

Signed by and on behalf of:
INOXPA, S.A.U.

David Reyero Brunet
Technical Office Manager
Banyoles, 2022

(1) the serial number may be preceded by a slash and by one or two alphanumeric characters
(2) for DN 80 and DN 100 (4') PIG sphere, it must be made of a material with a surface resistance of less than 1 Gohm

1. Safety

1.1. INSTRUCTION MANUAL

1.2. INSTRUCTIONS FOR START-UP

1.3. SAFETY

1.3.1. Warning symbols

Danger. Important indications for protection against explosions.

1.4. GENERAL SAFETY INSTRUCTIONS

1.4.1. During installation

To reduce danger originating from static electricity, the assembly should be grounded to ensure electric continuity between the pipes and equipment

1.4.2. During operation

The limit values of the working conditions in an explosive atmosphere should not be exceeded

The equipment was selected according to the working conditions specified by the user, for which INOXPA will not be liable for damages which may be caused from using the equipment under different conditions to those indicated in the order

1.4.3. During maintenance

Danger. Important indications for protection against explosions.

An explosive atmosphere may be generated or may exist during the disassembly of the equipment, for which reason safe work permits should be issued and these tasks should only be carried out by qualified and trained personnel

1.4.4. In compliance with the instructions

Any nonfulfillment of the instructions may result in risk for the operators, the environment, the machine and the installations, and may result in the loss of any right to claim damages.
This nonfulfillment may result in the following risks (in addition to those already indicated in the manual):
- Generation of explosive atmospheres and risk of explosion.

1.5. GUARANTEE

Any guarantee will be cancelled immediately and as a matter of law, in addition to any claim made by third parties for civil liability being payable to us (in addition to the conditions already indicated in the manual) in case:
- The material is used incorrectly or is not used according to the working conditions in the classified area, operating in a different classified area, temperature or pressure conditions and/or using a different substance.

2. Table of Contents

The indications of these sections should be observed in addition to those of the SILPIG system.

3. Receipt and installation

3.1. CHECK SHIPMENT

It should be checked that the equipment received adheres to the working conditions in the classified area and the conditions of the order

3.2. DELIVERY AND UNPACKING

3.2.1. Delivery

3.2.2. Unpacking

3.3. IDENTIFICATION

In case of ATEX SILPIG system, the following identification will be used on a complementary basis:

II 2G Ex h IIB T6…T3 Gb
II 2D Ex h IIIB T85ºC…T200 ºC Db

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
T6	≤ 60 °C	-20 °C to +40 °C
T5	≤ 75 °C	
T4	≤ 110 °C	
T3	≤ 140 °C	

Maximum surface temperature for explosive dust atmospheres

Maximum surface temperature	Product temperature (in process or cleaning)	Room temperature
T85 °C	≤ 85 °C	-20 °C to +40 °C
T100 ºC	≤ 100 °C	
T125 ºC	≤ 125 °C	
T 200 °C	≤ 200 °C	

3.4. SITE

3.5. ASSEMBLY

To reduce danger originating from static electricity, the assembly should be grounded to ensure electric continuity between the pipes and equipment

3.6. CHECKING AND INSPECTION

3.7. ACTUATOR AIR CONNECTION

4. Start-up

4.1. STARTING

It should be verified that the equipment received adheres to the working conditions in the classified area and the requested conditions

Ensure that there is an electric continuity between the equipment and the installation, as well as that the installation has electric grounding

4.2. OPERATION

Do not modify the operating parameters for which the equipment has been designed without prior written authorization from INOXPA

This equipment was selected for a given set of working conditions in potentially explosive atmospheres when the order was placed. INOXPA will not be liable for any damage resulting from the incompleteness or inaccuracy of the information provided by the buyer (type of liquid, viscosity, classification of the potentially explosive area, gas generated by the potentially explosive atmosphere, etc.)

6. Maintenance

6.1. GENERAL INFORMATION

The assembly and disassembly of the equipment should only be carried out by qualified personnel, taking into consideration that safe work permits are required in the presence of potentially explosive atmospheres

In case of PIG detector, the specifications of ATEX Directive 2014/34/EU should be fulfilled

6.2. MAINTENANCE

6.2.1. Maintenance of joints

In the case of the joints, carry out preventive maintenance. In case of deterioration, breakage or wear, proceed to change it

6.2.2. Storage

6.2.3. PIG maintenance

In the case of the PIG sphere, if it is pushed by water, there is no risk. If it is pushed by compressed air, then there may be a risk, so the sphere must be, in the case of the DN 80 and DN 100 (DN 4') dimensions and because the surface where the sphere is pushed exceeds the maximum allowed surface area (100cm2), it must be made of dissipative material or material that does not charge electrostatically. Otherwise DO NOT use

6.2.4. Spare parts

On requesting replacement parts for an equipment operating in a classified area, the order should explicitly indicate that these are for an equipment for operation in an ATEX area, as well as the characteristics of this area.
In case this is not carried out, INOXPA will not be held responsible for the operation of the valve with parts inappropriate for the classified area where it is installed.

6.3. CLEANING

Before commencing the disassembly and assembly work, the presence or the possible formation of potentially explosive atmospheres should be considered

7. Assembly and disassembly

The assembly and disassembly of the equipment should only be carried out by qualified personnel, with the need for the issuance of safe work permits being considered in the presence of potentially explosive atmospheres

7.1. DISASSEMBLY/ASSEMBLY OF EQUIPMENT

7.2. PIG POSITION

7.3. EQUIPMENT ORIENTATION

7.4. FLUID CONNECTIONS

7.5. DETECTOR PLACEMENT

8. Technical Specifications

8.1. TECHNICAL SPECIFICATIONS

Temperature range. See section 3.3.