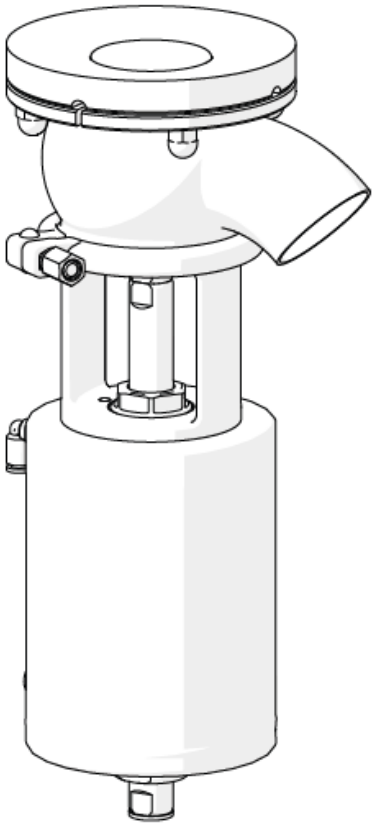
INSTALLATION, SERVICE AND MAINTENANCE INSTRUCTIONS

ANNEX FOR CE MARKED EQUIPMENT ACCORDING TO THE ATEX DIRECTIVE 2014/34/EU:

INNOVA F Ex TANK BOTTOM VALVE

The content of this Annex supplements the information in the instruction manual. The instructions in this Annex must be taken into account in conjunction with the equipment marked according to Directive 2014/34/EU.

This Annex is complemented, if applicable, by the manuals of the ATEX-certified components comprising the assembly.



10.248.32.0032

Original Manual

10.248.30.13EN

(0) 2024/11

10.248.30.14EN
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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

BOTTOM TANQUE VALVE

Model
INNOVA F

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

Fulfills 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 T85ºC…T200ºC Db

II 2G Ex h IIB T6…T3 Gb **X**
II 2D Ex h IIIB T85ºC…T200ºC Db **X**

II 3G Ex h IIB T6…T3 Gb **X**
II 3D Ex h IIIB T85ºC…T200ºC Db **X**

II 2G Ex h IIB T6…T3 Gb **X**

X – specific conditions of use. Consult the instruction manual of the control head and positioner supplier (if applicable).

The technical documentation referenced 24528737-807224 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, 2024

(1) the serial number may be preceded by a slash and by one or two alphanumeric characters

2. Generalities

2.1. INSTRUCTIONS MANUAL

This manual contains information about the reception, installation, operation, assembly and maintenance of the tank bottom valve INNOVA F. Carefully read the instruction prior to starting the valve, familiarize yourself with the installation, operation and correct use of the valve and strictly follow the instructions. These instructions should be kept in a safe location near the installation area. The information published in the instruction manual is based on updated data. INOXPA reserves the right to modify this instruction manual without prior notice.

2.2. COMPLIANCE WITH THE INSTRUCTIONS

Failure to comply with the instructions may prove hazardous for operators, the environment, the machine and the installations, leading to a loss of rights for claiming damages.
This non-compliance may result in the following hazards (in addition to those already listed in the manual):
- Generation of explosive atmospheres and risk of explosion.

2.3. WARRANTY

Any warranty will immediately be declared void, as of right, and we will be entitled to indemnity for any civil liability claim put forward by third parties (in addition to the conditions referred to in the manual):
- The material has been badly used or has not been used according to the conditions for working in the classified zone, in a different classified zone, in temperature or pressure conditions and/or different substance.

3. Safety

3.1. WARNING SYMBOLS

Danger! Important instructions for protection from explosions

3.2. GENERAL SAFETY INSTRUCTIONS

3.2.1. During installation

The reduce the danger from static electricity, the assembly should be earthed to ensure electrical continuity between pipes and valves

3.2.2. During operation

The limit values for the operating conditions in explosive atmospheres must not be exceeded

The valve was selected according to the working conditions specified by the user, therefore INOXPA is not responsible for any damage that may occur due to the use of valve under conditions other than those stated in the order

If the valve is used for flammable liquids, it must be observed that every operation of the valve is combined with an operating leakage of about 0,5ml. The operator shall considerer these conditions in his considerations and classifications of explosive environments

Indication that the actuator air connection must be covered or connected to a pneumatic air tube

3.2.3. During maintenance

Danger! Important instructions for protection from explosions

An explosive atmosphere may be generated or be present when removing the valve therefore safe work permits should be set and these tasks should only be carried out by qualified or trained personnel.

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The instructions provided in these sections of this Annex should be taken into account jointly with the valve manual.

4. General information

4.1. DESCRIPTION

The tank bottom valve INNOVA F is a pneumatically actuated single seat valve designed to drain the fluid of the tank in hygienical applications.

4.2. APPLICATION

The INNOVA F valve are used for applications in dairy, food, beverage, pharmaceutical and chemical industries.

5. Installation

5.1. RECEPTION OF THE VALVE

It should be checked that the valve received is adjusted to the working conditions in the classified zone as well as the order conditions

5.3. IDENTIFICATION

ATEX valves should be identified in a complementary manner:


II 2G Ex h IIB T6…T3 Gb
II 2D Ex h IIIB T85ºC…T200ºC Db


II 3G Ex h IIB T6…T3 Gb X
II 3D Ex h IIIB T85ºC…T200ºC Db X


II 2G Ex h IIB T6…T3 Gb X


II 2G Ex h IIB T6…T3 Gb X
II 2D Ex h IIIB T85ºC…T200ºC Db X

X – specific conditions of use. Consult the instruction manual of the control head and positioner supplier (if applicable).

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	

5.6. GENERAL INSTALLATION

The reduce the danger from static electricity, the assembly should be earthed to ensure electrical continuity between pipes and valves

The valve can be presented with or without the flange; if presented without a flange, it can only be coupled to an INOXPA flange

5.8. WELDING

Safe work permits must be set for any welding work in potentially explosive atmospheres; it is recommended to this kind of work in non-classified atmospheres (there is no explosive atmosphere in the valve's location during handling)

6. Start-up

It should be checked that the valve received is adjusted to the working conditions in the classified zone as well as the order conditions

Ensure electrical continuity between the valve and the installation, as well as connecting the installation to earth

The stem and the body are connected to ensure electrical continuity (in case of DE double effect actuator)

In the Twin Stop option, a connection is made between the piston and the support, to ensure electrical continuity. The piston must be made of stainless steel.

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

The valve was selected for certain working conditions in potentially explosive atmospheres at the time of placing the order. INOXPA is not liable for any damage that may arise if the information provided by the buyer is incomplete or incorrect (liquid type, viscosity, classification of the potentially explosive area, gas generated by the potentially explosive atmosphere, etc.)

The valve must always be flooded with product. Therefore, the end user must take this into account, thereby avoiding the possibility of the product entering the same external atmosphere. INOXPA will not be liable for any damage that may occur if this solution is not adopted.

For the heating chamber option, the heating water temperature must not exceed the working conditions for the reference classified area. Also, the water circulation pipe must be made of stainless steel or, if it is made of plastic, it must comply with the requirements of Directive 2014/34/EU for working in EPL Gb IIB and EPL Db IIIB classified areas.

For the vapour barrier option, the steam temperature must not exceed the working conditions for the reference classified area. Also, the steam circulation pipe must be made of stainless steel or, if it is made of plastic, it must comply with the requirements of Directive 2014/34/EU for working in EPL Gb IIB and EPL Db IIIB classified areas.

8. Maintenance

8.1. GENERAL CONSIDERATION

The assembly and disassembly of the valves must only be carried out by qualified personnel, taking into account the need to adopt safe working conditions in potentially explosive atmospheres

If the head or external position detectors are not supplied with the valve, and the client wants them installed, the specifications of Directive 2014/34/EU ATEX must be met

8.2. MAINTENANCE

8.2.3. Spare parts

On requesting spare parts for a valve intended to work in a classified zone, it is necessary to explicitly indicate in the order that they are for valve operating in an ATEX zone, as well as the characteristics of said zone.
If the spare parts are not requested in this way, INOXPA shall not be responsible for the case that the valve may not operate with parts which are not suitable for the classified zone where is installed.

8.3. CLEANING

Before beginning the disassembly and assembly work it should be taken into account the presence or possible formation of potentially explosive atmospheres

8.4. ASSEMBLY AND DISASSEMBLY

The assembly and disassembly of the valves must only be carried out by qualified personnel, taking into account the need to adopt safe working conditions in potentially explosive atmospheres

The stem and actuator support are connected to ensure electrical continuity, only for double effect actuator (DE)

9. Technical Specifications

Temperature range. See section 5.3.

PNEUMATIC ACTUATOR GENERAL DATA

The pneumatic actuator cannot exceed, under any circumstances, the 12 cycles per minute to ensure that there is no significant increase in temperature.

In any case, in ongoing work it is not recommended to exceed the 2/3 cycles per minute to ensure a reasonable life of the seal.