



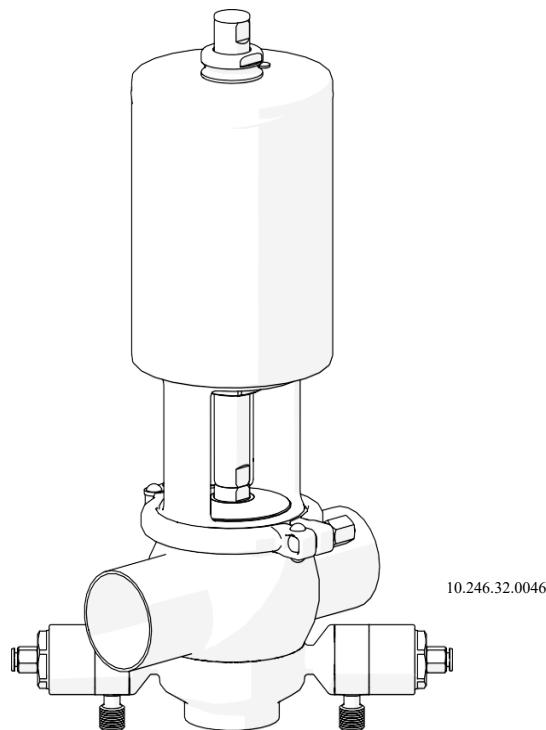
INSTALLATION, SERVICE AND  
MAINTENANCE INSTRUCTIONS

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

**INNOVA D Ex DOUBLE SEAL MixProof 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.



**Original Manual**

10.246.30.13EN

(0) 2025/07



10.246.30.14EN  
(0) 2025/07

## 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

### **DOUBLE SEAL MIX PROOF VALVE**

Model

**INNOVA D**

From serial number **XXXXXXXXXX** to **XXXXXXXXXX** <sup>(1)</sup>

Fulfils <sup>(2)</sup> 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°C...T200°C Db



II 2G Ex h IIB T6...T3 Gb X  
II 2D Ex h IIIB T85°C...T200°C Db X



II 3G Ex h IIB T6...T3 Gb X  
II 3D Ex h IIIB T85°C...T200°C 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 28221900-815958 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, 2025

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

<sup>(2)</sup> pneumatic actuator D/E make connection between the shaft and the actuator support, to ensure electrical continuity

# 1. Safety

## 1.3. SAFETY

### 1.3.1. Warning symbols



**Danger! Important instructions for protection from explosions**

## 1.4. GENERAL SAFETY INSTRUCTIONS

### 1.4.1. During installation

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

### 1.4.2. 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 inflammable liquids, it must be observed that every operating process is combined with an operating leakage. This operating leakage liquid must be discharged in a closed system or a in the outside area. Please use suitable material for the classified area

### 1.4.3. 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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#### **1.4.4. 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.

#### **1.4.5. 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.

## 2. Table of Contents

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

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## 4. Installation

### 4.1. DELIVERY 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**

### 4.3. IDENTIFICATION

ATEX valves should be identified in a complementary manner:

-  II 2G Ex h IIB T6...T3 Gb  
II 2D Ex h IIIB T85°C...T200°C Db
-  II 3G Ex h IIB T6...T3 Gb X  
II 3D Ex h IIIB T85°C...T200°C 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 T85°C...T200°C 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 °C	≤ 100 °C	
T125 °C	≤ 125 °C	
T 200 °C	≤ 200 °C	

### 4.6. GENERAL INSTALLATION

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

#### 4.8. 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)**

## 5. Start-up

### 5.2. 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)**

**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.**

### 5.3. OPERATION

**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.)**

## 7. Maintenance

### 7.1. GENERAL INFORMATION

**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, positioner 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**

### 7.2. MAINTENANCE

#### 7.2.3. 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 it is installed.*

### 7.3. CLEANING

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

#### 7.3.3. Cleaning of the intermediate chamber

The cleaning of the intermediate chamber is done through the leak detectors. The cleaning liquid is supplied through a leak detector and is discharged into the atmosphere through a closed process with the other leak detector. The restrictive step of the cleaning fluid provides a perfect cleaning of the entire leak chamber.

### 7.4. 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**

### 7.5. DISASSEMBLY / ASSEMBLY OF THE INNOVA D VALVE

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

### 7.5.1. Disassembly:

1. Apply compressed air to the actuator so that the plug stem (08) is in the open position (only for NC valves).
2. Loosen and separate the clamp (34).
3. Separate the actuator (10) from the valve body (01).
4. Disassembly the leak detector as explained in section 7.8.  
Disassembly / Assembly of the leak detector
5. Release the compressed air in the actuator (only NC valves).
6. Unscrew the Allen bolts (23) from the lantern (21).
7. Unscrew the plug stem (08) from the actuator shaft two 17 mm crescent spanners.
8. Finish unscrewing the plug stem by hand.
9. Once the plug stem is out, remove the body cap (12) and the seals inside it (20B and 05)
10. Extract the guide bushing (17) and the scraper (60), and take out the washer with the electrical continuity connection cable.
11. Extract the seat seal (05C), and the washer with the electrical continuity connection cable.

### 7.5.2. Assembly:

1. Loosen the scraper (60), the electrical continuity connection cable and the guide bushing (17) on the lantern (21).
2. Insert the lantern (21) underneath the actuator.
3. Lubricate the seals with soapy water if necessary.
4. Install the seals (20B and 05) in the body cap (12) and put this assembly in the lantern.
5. Install the seat assembly (05C, 05E).
6. Once the seat assembly (05C) is installed, house the washer with the electrical continuity connection cable on the plug stem (08); thread the same with the actuator shaft (10).
7. Tighten the four Allen bolts (23) that secure the lantern (21) to the actuator.
8. Apply compressed air to the actuator so that the plug stem (08) is in the open position (only for NC valves).
9. Assemble leakage detector as explained in section 7.8. Disassembly / Assembly of the leak detector.
10. Install the actuator (10) - lantern (21) - shaft (12) assembly to the valve body (01) (can be turned 360° according to the user's needs) and secure it using the clamp (34).
10. Release the compressed air in the actuator (only NC valves).

## 8. Technical Specifications

Temperature range. See section 4.3.

### 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.**