

## Hygienic valves

ATEX version - GEA Hygienic butterfly valves / GEA FLOWVENT valves

Operating instruction (Translation from the original language)

430BAL014272EN\_2

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## **LEGAL NOTICE**

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# **1 General Information**

## **1.1 Information about this document**

These additional operating instructions are part of the user information for the valve.

These additional operating instructions contain the manufacturer's instructions to the operator of the valve and to all persons who work on or use the valve regarding the procedures to follow.

They contain basic instructions for the use of the GEA hygienic butterfly valves / GEA FLOWVENT valves in explosion-hazarded zones. This document is a supplement to the general standard operating instructions for GEA hygienic butterfly valves / GEA FLOWVENT valves and is therefore to be considered part of it. These additional operating instructions must be observed before installation and commissioning. They should always be available where GEA hygienic butterfly valves / GEA FLOWVENT valves are used.

Carefully read these Operating Instructions before starting any work on or using the valve. Your personal safety and the safety of the valve can only be ensured if you act as described in the Operating Instructions.

Store the Operating Instructions in such a way that they are accessible to the operator and the operating staff during the entire life cycle of the valve. When the location is changed or the valve is sold make sure you also provide the Operating Instructions.

### **1.1.1 Binding Character of These Operating Instructions**

These Operating Instructions contain the manufacturer's instructions to the operator of the product and to all persons who work on or use the product regarding the procedures to follow.

Carefully read these Operating Instructions before starting any work on or using the product. Your personal safety and the safety of the product can only be ensured if you act as described in the Operating Instructions.

Store the Operating Instructions in such a way that they are accessible to the operator and the operating staff during the entire life cycle of the product. When the location is changed or the product is sold make sure you also provide the Operating Instructions.

### **1.1.2 Validity of the Instruction manual**

The instruction manual is valid exclusively for valves with an ATEX marking.

The approved valves are suitable for operation in potentially explosive atmospheres, taking into account the relevant regulations and the manufacturer's declaration or declaration of conformity.

Use in explosion-hazarded zones must be specified when ordering, as the ATEX valves are slightly modified and labelled.

Their conformity, and therefore, their suitability for the intended purpose with regard to the safety of the product in which they are installed must be assessed in the conformity assessment of the entire product.

The ATEX version of the valves may only be safely used in explosion-hazarded zones for the intended area. This manual contains basic instructions for the use of the valves in explosion-hazarded zones. This document is a supplement to the general standard operating instructions for the valves and is therefore to be considered part of it. These additional operating instructions must be observed before installation and commissioning. The operating instructions must always be available at the valve.

## **1.2 Manufacturer address**

GEA Refrigeration Technology (Suzhou) Co., Ltd.  
No.8, Dong Chang Road, Suzhou Industrial Park, Suzhou Jiangsu Province  
215024, China

## **1.3 Contact**

Tel: +86 (0) 512 8765 2688  
Fax: +86 (0) 512 8777 0789  
[www.gea.com](http://www.gea.com)

## 2 Safety

### 2.1 Intended use

The GEA hygienic butterfly valves / GEA FLOWVENT valves are used to open and partially or fully shut off pipe sections. Using the device for any other purpose is considered contrary to its designated use.

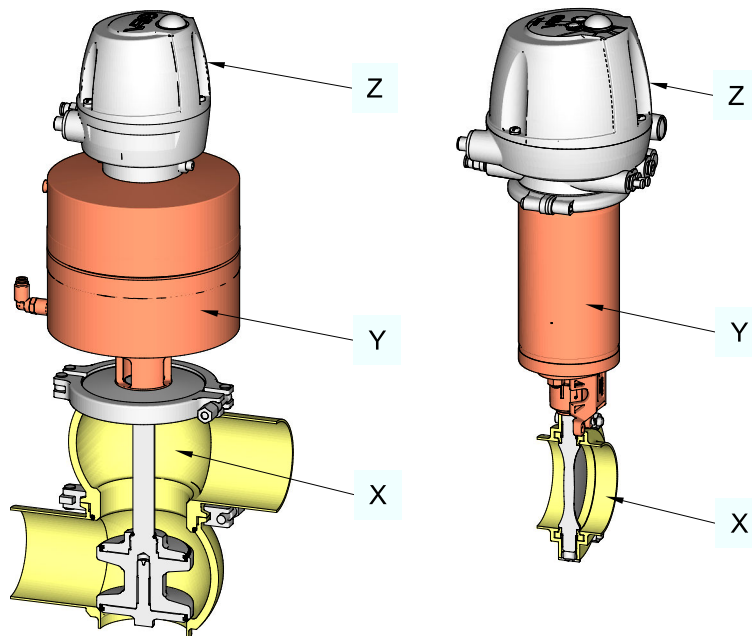


Fig.1

Interior (X):	Does not have its own potential ignition source and do not fall within the scope of 2014/34/EU
Exterior (Y):	Has its own potential ignition source and falls within the scope of 2014/34/EU
Control top (Z):	Not part of these operating instructions. The selectable explosion-proof control top has its own conformity within the sense of 2014/34/EU.



#### Hint!

**The manufacturer will not accept any liability for damage resulting from any use of the valve which is not in accordance with the designated use of the valve. The risk is borne solely by the operating company.**



#### Hint!

**The valve is intended for the conveying of materials IIA and IIB. No insulating materials must be conveyed, which could charge system parts and equipment at dangerous levels due to their flow.**

#### 2.1.1 Ex-version and marking

#### 2.1.1.1 GEA Hygienic Butterfly Valves / GEA FLOWVENT Valves

The ignition hazard assessment has shown that the interior devices - area in contact with the product, such as housing and valve insert - do not have their own potential ignition source. Therefore, the interior does not fall within the scope of ATEX 2014/34/EU (ATEX).

In very rare cases, the drive unit - pneumatic drive, lantern - can pose an ignition risk. Therefore, the drive unit falls under directive 2014/34/EU and is marked accordingly. The suitability is confirmed by the respective type-specific Declaration of Conformity (see annex).

#### 2.1.2 Manufacturer declarations and declarations of conformity

The suitability of the valves is confirmed by the respective type-specific Declaration of Conformity (see Chapter 5, Page 15).

#### 2.1.3 Restrictions on usable substances

The operation and the cleaning with substances of explosion subgroup IIC and isolating materials is not permitted. The restriction according to the marking in table "valve type and marking" still applies, see Chapter 4, Page 14.

#### 2.1.4 Special attention

The following must be observed for the intended use in potentially explosive atmospheres:

- Hot surfaces are created only by the medium itself. The resulting ignition risks must be determined, assessed and remedied by the user with regard to the potentially explosive atmosphere.  
See also chapter "temperature classes" (Section 3.2, Page 12).
- Media reacting exothermally or that ignite themselves must not be used.
- Sensors, electric attachments or other attachments must be suited for the existing zone and must be subjected independently to an ATEX ignition risk analysis. These attachments are not part of the valves evaluated here.



##### Hint!

**All attachments that are not part of the valves, must be subjected to an own assessment according to the directive 2014/34/EU.**

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- The entire environment and the installation of the isolation valve must be carried out by the user according to the provisions and regulations in force and in particular be equipped with a suitable potential equalisation.
- Ignition risks due to lightning strikes, electromagnetic waves affecting the device and other radiation that affect the device from the outside must be taken into consideration by the user.
- When closing the valve in the direction of the flow, the valve disk can be pressed abruptly into the valve seat. The resulting pressure peaks/pressure shocks can damage plant components.



The operator must ensure that the valve is closed only against the direction of flow. If closing the valve in the direction of flow is necessary or cannot be excluded, a damping cylinder must be installed upstream or the valve must be switched to a flow-free or depressurised state. Any pressure shocks in the system must be avoided.

### **2.1.5 Servicing**

#### **Authorized personnel / OEM replacement parts**

The valves may only be serviced and repaired by authorized personnel. Only OEM spare parts intended for use in explosion-hazarded zones must be used. These must be requested with a note on ATEX use from GEA Refrigeration. If OEM spare parts are not used for applications in explosion-hazarded zones, the enclosed ATEX declarations lose their validity and their use in explosion-hazarded zones is no longer permitted.

#### **Service life of the actuator**

The actuator is designed according to constructive safety. The actuator must be replaced after 500,000 switching operations, however after 5 years at the latest. The operator must monitor the switching number control using appropriate measures.

Maintenance must be performed at regular intervals. Worn parts must be replaced with Tuchenhausen genuine spare parts.

Ensure that liquids and cleaning media cannot seep inside the actuator.

### **2.1.6 Improper operating conditions**

The operational reliability of the valve cannot be ensured under improper operating conditions. Therefore avoid improper operating conditions.

Operating the valve is not permitted if

- Persons or objects are in the danger zone.
- Safety devices are not working or were removed.
- Malfunctions have been detected on the valve.
- Damage has been detected on the valve.
- Maintenance intervals have been exceeded.

### **2.1.7 Conversion Work**

You should never make any technical modifications to the valve. Otherwise you will have to undergo a new conformity process in accordance with the EC Machinery Directive on your own.

In general, only genuine spare parts supplied by GEA Refrigeration Technology (Suzhou) Co., Ltd. should be fitted.

## **2.2 Safety precautions**

### **2.2.1 The operator**

The operator is obliged to comply with the applicable laws, directives and regulations for explosion safety for the installation, assembly work and operation.

The operator determines the classification according to group, category, zone, temperature class and protection principle.

The operator must ensure that the valve is grounded. The valve must only be operated in approved ranges of application (EX zone, media and ambient temperature, medium, resistance, pressure).

When switching the valve and in case of a defect at the sealing materials, medium can spread into the atmosphere from the valve inside. The operator must take this into consideration when allocating zones to the installation.

The operator must ensure that the valve remains in proper condition and must therefore carry out regular maintenance adapted to the operating conditions.

### **2.2.2 Safety instructions for cable glands**

Screwed cable glands must only be installed, operated and maintained by qualified specialists. They must be used properly in an undamaged and clean state. No changes may be effected to the screwed cable glands that are not listed expressly in this instruction manual. In particular, the replacement of the standard sealing insert with a different size is not permitted.

The cables used must be approved for the ATEX area, must not have any kinks and must be undamaged. The national installation, safety and accident prevention regulations and the safety precautions in this instruction manual must be observed for all applications with the screwed cable glands.

### **2.2.3 Tools**

The tools used in potentially explosive zones must comply with the ATEX guidelines. The operator is responsible for this.

## 3 Cleaning

### 3.1 Basics

In the European Union, directive 2014/34/EU, also known as the ATEX directive, applies. It regulates the suitability and the putting into circulation of devices for use in potentially explosive areas.

Whereas electrical devices have always been subject to regulation in the past, non-electrical (mechanical) devices are now also covered. The manufacturer determines the suitability of the device for use in hazardous areas. If the device falls within the scope of the directive, it is classified according to its suitability, if necessary also subjected to a type examination by an appointed body and marked.

Due to the device category, the device is assigned to the ex-zone. The ex-zone is determined by the operator. The following table shows the relationship between device group, device category, device protection level and zone. A complete overview of the structure of the ex-marking can be found on the following page.

Required marking of the equipment to be used					
Potentially explosive atmosphere	Zone classification	Potentially explosive atmosphere available	Device group	Device category	EPL (device protection level)
Gas	Zone 0	Permanently, long term, often	II	1G	Ga
	Zone 1	occasionally	II	2G (1G)	Gb (Ga)
	Zone 2	Never, rarely or short-term	II	3G (2G+1G)	Gc (Ga, Gb)
Dust	Zone 20	Permanently, long term, often	II	1D	Da
	Zone 21	occasionally	II	2D (1D)	Db (Da)
	Zone 22	Never, rarely or short-term	II	3D (2D+1D)	Dc /Da, Db)

Explosion groups and examples for gases and vapours						
Explosion group	Gases and vapours - examples depending on explosion group and temperature class					
II A	Ammonia Methane Ethane Propane	Ethyl alcohol Cyclohexane n-Butane	Gasoline Diesel Fuel oil n-Hexane	Acetaldehyde		
II B	City gas Acrylonitrile	Ethylene Ethylene oxide		Ethyl ether		
II C	Hydrogen	Acetylene				Carbon disulphide
Temperature class	T1	T2	T3	T4	T5	T6
Temperature	450°C	> 300°C < 450°C	> 200°C < 300°C	> 135°C < 200°C	> 100°C < 135°C	> 85°C < 100°C

### 3.2 Temperature classes

The maximum surface temperature depends mainly on the operating conditions and not on the device itself.

A specification of the temperature class T1 to T6 is therefore not permissible. Therefore, the device is characterized for a range of temperature classes or a temperature range, e.g. T3 ...T6

The temperature classes define ignition ranges, according to which combustible gases and flammable liquids are classified according to their specific ignition temperature. The ignition temperature of the media can be determined from relevant tables, e.g. International Chemical Safety Cards (ICSC) <http://biade.itrust.de>.

To comply with the required temperature class, the respective maximum operating and ambient temperatures must be strictly observed and monitored:

Temperature class	Calculation	Operating conditions
T3 = 200°C	$200^{\circ}\text{C} - 5^{\circ}\text{C} = 195^{\circ}\text{C}$	Operating / surface temperature: max.150°C/ (30 min.) otherwise 135°C Ambient temperature: max.45°C
T4 = 135°C	$135^{\circ}\text{C} - 5^{\circ}\text{C} = 130^{\circ}\text{C}$	Operating / surface temperature: 130°C Ambient temperature: max.45°C
T5 = 100°C	$100^{\circ}\text{C} - 5^{\circ}\text{C} = 95^{\circ}\text{C}$	Operating / surface temperature: 95°C Ambient temperature: max.45°C
T6 = 85°C	$85^{\circ}\text{C} - 5^{\circ}\text{C} = 80^{\circ}\text{C}$	Operating / surface temperature: 80°C Ambient temperature: max.45°C

### 3.3 Example for an ATEX marking

The marking is carried out only if the ATEX directive can be applied, i.e. if potential ignition sources are present.

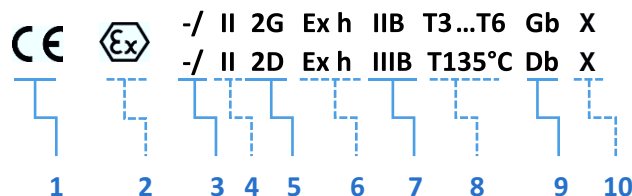


Fig.2: Example for an ATEX marking

Explanation of the example of the ATEX marking	
No	Explanation
1	CE conformity of the device / autonomous protective system (not for components intended for devices)
2	EX mark ATEX directive is applied
3	-/ Inside area does not fall within the scope of ATEX 2014/34/EU
4	Device group II (not mining)
5	Device group 2 for gases/vapours G and dusts D
6	Ex h applied ignition protection classes

Explanation of the example of the ATEX marking	
No	Explanation
7	<b>Explosion group IIB</b> (not mining; sub-group B)
8	<b>T6 ...T3 temperature range</b> (see Section 3.2, Page 12) max surface temperature +135°C (dust) see Section 3.2, Page 12
9	<b>Gb</b> device protection level
10	<b>X</b> Specific operating conditions such as operating and surface temperatures as well as switching interval of the drive

### 3.4 Ignition protection types

Ignition protection types		
Possible ignition protection types	Device protection levels	Standard
Basic method and requirements		DIN EN ISO 80079-36
Safety design	Ex h	DIN EN ISO 80079-37
Ignition source monitoring	Ex h	DIN EN ISO 80079-37
Liquid encapsulation	Ex h	DIN EN ISO 80079-37
Pressurised enclosure	Ex pxb; (Ex pyb; Ex pzc)	DIN EN ISO 80079-2
Protection by housing	Ex ta, (Ex tb; Ex tc)	DIN EN ISO 80079-31
Pressure-resistant enclosure	Ex da, (Ex db; Ex dc)	DIN EN ISO 80079-1

## 4 Identification of the valves in ATEX model

### 4.1 Valve types and marking

#### 4.1.1 GEA Hygienic Butterfly Valves and GEA FLOWVENT Valves

GEA Hygienic Butterfly Valves and GEA FLOWVENT Valves					
Valve series	Types	Actuator	Marking according to ATEX		Additional limitations
			Interior	Exterior area	
GEA FLOWVENT	SO, DI, DS, MP	Air/spring actuator		II 2G Ex h IIB T3 ... T6 Gb X II 2D Ex h IIIB T135°C Db X	Observe scope and manufacturer's declaration
GEA hygienic butterfly valves		Actuator NO/NC		II 2G Ex h IIB T3 ... T6 Gb X II 2D Ex h IIIB T135°C Db X	Observe scope and manufacturer's declaration
		Actuator AA		II 2G Ex h IIB T3 ... T6 Gb X II 2D Ex h IIIB T135°C Db X	
		Manual actuator	Observe manufacturer's declaration		
		Booster cylinder pL min. 3.0 bar / max. 4.0 bar			
		Two-position stop			

### 4.2 Further notes on butterfly valve T-smart 7 and T-smart 9

The use of the booster cylinder in potentially explosive environments is permitted only up to a maximum control air pressure of 4.0 bar. A control air pressure above 4.0 bar is an impermissible operating condition.

### 4.3 Scope

#### ATEX 2014/34/EU

If the GEA hygienic butterfly valves / GEA FLOWVENT valves are used in areas with a potentially explosive atmosphere, you must absolutely comply with directive 2014/34/EU with respect to all ignition hazards.

Substances of explosion group IIC and isolating substances are generally not permitted.

These restrictions are considered to be additional restrictions to the ATEX marking.

Any application area beyond is not permitted.






### 4.4 Feedback and connection head

Only appropriately approved EX sensors may be used in hazardous areas.

The information and markings of the corresponding operating instructions must be observed.

## 5 Manufacturer declarations and declarations of conformity

### 5.1 Declaration of Conformity according to ATEX 2014/34/EU, GEA butterfly valves

	
<b>EU Declaration of Conformity according to ATEX 2014/34/EU</b>	
Manufacturer:	<b>GEA BU Valves &amp; Pumps</b> <b>GEA Process &amp; Equipment Technologies (Suzhou) Co., Ltd.</b> No.8, Dong Chang Road, Suzhou Industrial Park Suzhou Jiangsu Province 215024, China
We hereby declare that the devices named below	
<b>Model:</b>	<b>GEA Hygienic Butterfly Valves</b> <b>GEA Leakage Butterfly Valves</b>
<b>Type:</b>	<b>711 -788</b> <b>988</b>
<b>Design:</b>	<b>Valid for all types without control module and without proximity switch</b> <b>Valid only for types with IGLIDUR-F friction-bearings</b> <b>Also valid for design variants with booster cylinder, two- position cylinder, LOTO disc lock and extension.</b>
due to their design and construction as well as in the versions sold by us, meet the basic safety and health requirements of the following guideline:	
Relevant EC directives:	2014/34/EU ATEX
Identification:	  <b>-/II 2G Ex h IIB T3...T6 Gb X</b> <b>-/II 2D Ex h IIIB T135°C Db X</b>
In the inner valve housing (product area) the equipment does not have a potential ignition source and do not fall within the scope of the directive ATEX 2014/34/EU. In the outside area (e.g. lantern, actuator) the equipment may be used only up to the Ex-range mentioned.	
Applicable harmonized standards:	EN 1127-1:2019-10 EN ISO 80079-36:2016-12 EN ISO 80079-37:2016-12
Other applied standards and technical specifications:	TRGS 727:2016-01 GB 25286.5 GB 25286.1
Remarks:	<ul style="list-style-type: none"><li>• The ATEX operating instructions including the intended use and safety instructions defined therein must be observed.</li><li>• Electrical / electronic and other devices and components in connection and application with the above devices must undergo a separate conformity assessment according to ATEX.</li><li>• Substances of the explosion subgroup IIC and insulating substances are not allowed.</li><li>• X: Specific operating conditions such as operating and surface temperatures as well as change intervals for the actuator must be observed and can be found in the operating instructions.</li></ul>
Person authorized for compilation and handover of technical documentation:	<b>GEA Tuchenhausen GmbH</b> <b>CE-Documentation officer</b> <b>Am Industriepark 2-10</b> <b>21514 Büchen, Germany</b>
Büchen, 13 January 2022	
 Soeren de Boon Vice President & Managing Director	 Matthias Südel Senior Director Engineering

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## Manufacturer declarations and declarations of conformity

Translated copy of the EU Declaration of Conformity according to ATEX 2014/34/EU for GEA butterfly valves

### 5.2 Translated copy of the EU Declaration of Conformity according to ATEX 2014/34/EU for GEA butterfly valves

Manufacturer: **GEA BU Valves & Pumps**  
**GEA Process & Equipment Technologies (Suzhou) Co., Ltd.**  
**No.8, Dong Chang Road, Suzhou Industrial Park**  
**Suzhou Jiangsu Province 215024, China**

We hereby declare that the devices named below

<b>Model:</b>	<b>GEA Hygienic Butterfly Valves</b> <b>GEA Leakage Butterfly Valves</b>
<b>Type:</b>	<b>711 - 788</b> <b>988</b>
<b>Design:</b>	<b>Valid for all types without control module and without proximity switch.</b> <b>Valid only for types with IGLIDUR-F friction-bearings.</b> <b>Also valid for design variants with booster cylinder, two- position cylinder, LOTO disc lock and extension.</b>

due to their design and construction as well as in the versions sold by us, meet the basic safety and health requirements of the following guideline:

Relevant EC directives: 2014/34/EU ATEX

Identification:



**-/II 2G Ex h IIB T3...T6 Gb X**  
**-/II 2D Ex h IIIB T135°C Db X**

In the inner valve housing (product area) the equipment does not have a potential ignition source and do not fall within the scope of the directive ATEX 2014/34/EU.

In the outside area (e.g. lantern, actuator) the equipment may be used only up to the Ex-range mentioned.

Applicable harmonized standards:	EN 1127-1:2019-10 EN ISO 80079-36:2016-12 EN ISO 80079-37:2016-12
Other applied standards and technical specifications:	TRGS 727:2016-01 GB 25286.5 GB 25286.1

Remarks:

- The ATEX operating instructions including the intended use and safety instructions defined therein must be observed.
- Electrical / electronic and other devices and components in connection and application with the above devices must undergo a separate conformity assessment according to ATEX.
- Substances of the explosion subgroup IIC and insulating substances are not allowed.
- X: Specific operating conditions such as operating and surface temperatures as well as change intervals for the actuator must be observed and can be found in the operating instructions.

Person authorized for compilation and handover of technical documentation:

**GEA Tuchenhausen GmbH**  
**CE-Documentation officer**  
**Am Industriepark 2-10**  
**21514 Büchen, Germany**

Büchen, 13 January 2022

Soeren de Boon  
Vice President & Managing Director

Matthias Südel  
Senior Director Engineering



### 5.3 Manufacturer's Declaration regarding the non-relevance of ATEX 2014/34/EU for GEA butterfly valves with manual actuator



**Declaration of Manufacturer regarding the non- relevance of ATEX 2014/34/EU**

Manufacturer: GEA BU Valves & Pumps  
GEA Process & Equipment Technologies (Suzhou) Co., Ltd.  
No.8, Dong Chang Road, Suzhou Industrial Park  
Suzhou Jiangsu Province 215024, China

We hereby declare that the devices named below

<b>Model:</b>	GEA Hygienic Butterfly Valves with Manual Actuator GEA Leakage Butterfly Valves with Manual Actuator
<b>Type:</b>	711 -788 988
<b>Design:</b>	Valid for types with manual actuator and without proximity switch. Valid only for types with IGLIDUR-F friction-bearings. Valid for design variants with LOTO disc lock and extension.

due to their design and construction as well as in the versions sold by us, meet the basic safety and health requirements of the following guideline:

Relevant EC directives: 2014/34/EU ATEX

The equipment does not have a potential ignition source and do not fall within the scope of the directive ATEX 2014/34/EU.  
The valves may be used in areas where explosive atmospheres exist.

Applicable harmonized standards:	EN 1127-1:2019-10 EN ISO 80079-36:2016-12 EN ISO 80079-37:2016-12
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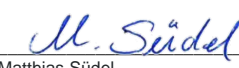
Other applied standards and technical specifications:	TRGS 727:2016-01 GB 25286.5 GB 25286.1
--	--

Remarks:	<ul style="list-style-type: none"><li>• The ATEX operating instructions including the intended use and safety instructions defined therein must be observed.</li><li>• Electrical / electronic and other devices and components in connection and application with the above devices must undergo a separate conformity assessment according to ATEX.</li><li>• Substances of the explosion subgroup IIC and insulating substances are not allowed.</li><li>• Intended use in the inner valve housing (product area) of the equipment is zone for gas: 0; 1; 2 and for dust 20; 21; 22</li><li>• Intended use in the outside area (e.g. lantern, actuator) of the equipment is zone for gas: 1; 2 and for dust 21; 22</li></ul>
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Person authorized for compilation and handover of technical documentation:	GEA Tuchenhausen GmbH CE-Documentation Officer Am Industriepark 2-10 21514 Büchen, Germany
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Büchen, 13 January 2022

  
Soeren de Boon  
Vice President & Managing Director

  
Matthias Südel  
Senior Director Engineering

1/1

## Manufacturer declarations and declarations of conformity

Translated copy of the manufacturer's declaration regarding the non-relevance of ATEX 2014/34/EU for GEA butterfly valves with manual actuator

### 5.4 Translated copy of the manufacturer's declaration regarding the non-relevance of ATEX 2014/34/EU for GEA butterfly valves with manual actuator

Manufacturer: **GEA BU Valves & Pumps**  
**GEA Process & Equipment Technologies (Suzhou) Co., Ltd.**  
**No.8, Dong Chang Road, Suzhou Industrial Park**  
**Suzhou Jiangsu Province 215024, China**

We hereby declare that the devices named below

<b>Model:</b>	<b>GEA Hygienic Butterfly Valves with Manual Actuator</b> <b>GEA Leakage Butterfly Valves with Manual Actuator</b>
<b>Type:</b>	<b>711 - 788</b> <b>988</b>
<b>Design:</b>	<b>Valid for types with manual actuator and without proximity switch.</b> <b>Valid only for types with IGLIDUR-F friction-bearings.</b> <b>Valid for design variants with LOTO disc lock and extension.</b>

due to their design and construction as well as in the versions sold by us, meet the basic safety and health requirements of the following guideline:

Relevant EC directives: 2014/34/EU ATEX

The equipment does not have a potential ignition source and do not fall within the scope of the directive ATEX 2014/34/EU. The valves may be used in areas where explosive atmospheres exist.

Applicable harmonized standards: EN 1127-1:2019-10  
EN ISO 80079-36:2016-12  
EN ISO 80079-37:2016-12

Other applied standards and technical specifications: TRGS 727:2016-01  
GB 25286.5  
GB 25286.1

Remarks:

- The ATEX operating instructions including the intended use and safety instructions defined therein must be observed.
- Electrical / electronic and other devices and components in connection and application with the above devices must undergo a separate conformity assessment according to ATEX.
- Substances of the explosion subgroup IIC and insulating substances are not allowed.
- Intended use in the inner valve housing (product area) of the equipment is zone for gas: 0; 1; 2 and for dust 20; 21; 22
- Intended use in the outside area (e.g. lantern, actuator) of the equipment is zone for gas: 1; 2 and for dust 21; 22

Person authorized for compilation and handover of technical documentation:	<b>GEA Tuchenhausen GmbH</b> <b>CE-Documentation Officer</b> <b>Am Industriepark 2-10</b> <b>21514 Büchen, Germany</b>
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Büchen, 13 January 2022

Soeren de Boon  
Vice President & Managing Director

Matthias Südel  
Senior Director Engineering

**5.5 Declaration of Conformity according to ATEX 2014/34/EU for Flowvent SV/SO, SV/DI, SV/DS, SV/MP**



**EU Declaration of Conformity according to ATEX 2014/34/EU**

Manufacturer: **GEA BU Valves & Pumps**  
**GEA Process & Equipment Technologies (Suzhou) Co., Ltd.**  
**No.8, Dong Chang Road, Suzhou Industrial Park**  
**Suzhou Jiangsu Province 215024, China**

We hereby declare that the devices named below

**Model: FLOWVENT**



**Type: SV/SO, SV/DI, SV/DS, SV/MP**

**Design: Valid for all types without control module and without proximity switch**

due to their design and construction as well as in the versions sold by us, meet the basic safety and health requirements of the following guideline:

Relevant EC directives: 2014/34/EU ATEX

Identification:

  **-/II 2G Ex h IIB T3...T6 Gb X**  
**-/II 2D Ex h IIB T135°C Db X**

In the inner valve housing (product area) the equipment does not have a potential ignition source and do not fall within the scope of the directive ATEX 2014/34/EU. In the outside area (e.g. lantern, actuator) the equipment may be used only up to the Ex-range mentioned.

Applicable harmonized standards: EN 1127-1:2019-10  
EN ISO 80079-36:2016-12  
EN ISO 80079-37:2016-12

Other applied standards and technical specifications: TRGS 727:2016-01  
GB 25286.5  
GB 25286.1


Remarks:

- The ATEX operating instructions including the intended use and safety instructions defined therein must be observed.
- Electrical / electronic and other devices and components in connection and application with the above devices must undergo a separate conformity assessment according to ATEX.
- Substances of the explosion subgroup IIC and insulating substances are not allowed.
- X: Specific operating conditions such as operating and surface temperatures as well as change intervals for the actuator must be observed and can be found in the operating instructions.

Person authorized for compilation and handover of technical documentation: **GEA Tuchenhausen GmbH**  
**CE-Documentation Officer**  
**Am Industriepark 2-10**  
**21514 Büchen, Germany**

Büchen, 13 January 2022

  
Soeren de Boon  
Vice President & Managing Director

  
Matthias Südel  
Senior Director Engineering

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## Manufacturer declarations and declarations of conformity

Translated copy of the EU Declaration of Conformity according to ATEX 2014/34/EU for Flowvent SV/SO, SV/DI, SV/DS, SV/MP

### 5.6 Translated copy of the EU Declaration of Conformity according to ATEX 2014/34/EU for Flowvent SV/SO, SV/DI, SV/DS, SV/MP

Manufacturer: **GEA BU Valves & Pumps**  
**GEA Process & Equipment Technologies (Suzhou) Co., Ltd.**  
**No.8, Dong Chang Road, Suzhou Industrial Park**  
**Suzhou Jiangsu Province 215024, China**

We hereby declare that the devices named below

<b>Model:</b>	<b>FLOWVENT</b>
<b>Type:</b>	<b>SV/SO, SV/DI, SV/DS, SV/MP</b>
<b>Design:</b>	<b>Valid for all types without control module and without proximity switch.</b>

due to their design and construction as well as in the versions sold by us, meet the basic safety and health requirements of the following guideline:

Relevant EC directives: 2014/34/EU ATEX

Identification:



-/II 2G Ex h IIB T3...T6 Gb X  
-/II 2D Ex h IIIB T135°C Db X

In the inner valve housing (product area) the equipment does not have a potential ignition source and do not fall within the scope of the directive ATEX 2014/34/EU. In the outside area (e.g. lantern, actuator) the equipment may be used only up to the Ex-range mentioned.

Applicable harmonized standards: EN 1127-1:2019-10  
EN ISO 80079-36:2016-12  
EN ISO 80079-37:2016-12

Other applied standards and technical specifications: TRGS 727:2016-01  
GB 25286.5  
GB 25286.1

Remarks:

- The ATEX operating instructions including the intended use and safety instructions defined therein must be observed.
- Electrical / electronic and other devices and components in connection and application with the above devices must undergo a separate conformity assessment according to ATEX.
- Substances of the explosion subgroup IIC and insulating substances are not allowed.
- X: Specific operating conditions such as operating and surface temperatures as well as change intervals for the actuator must be observed and can be found in the operating instructions.

Person authorized for compilation and handover of technical documentation:

**GEA Tuchenhausen GmbH**  
**CE-Dokumentation Officer**  
**Am Industriepark 2-10**  
**21514 Büchen, Germany**

Büchen, 13 January 2022

Soeren de Boon  
Vice President & Managing Director

i.V. Matthias Südel  
Senior Director Engineering





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