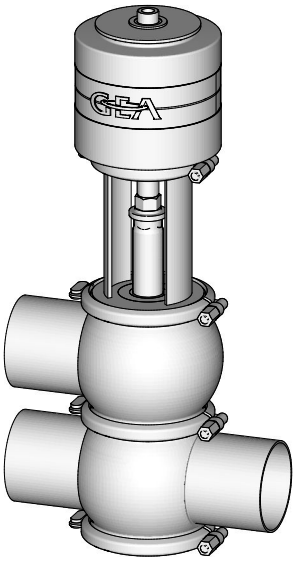

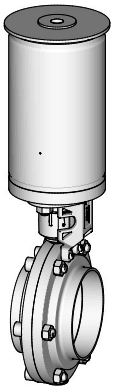

Hygienic valves

ATEX model - VARIVENT® / ECOVENT® / D-tec® / VESTA valves / hygienic butterfly valve and hygienic leakage butterfly valve

Operating instruction (Translation from the original language)

430BAL008708EN_16

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TABLE OF CONTENTS

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.

It contains basic instructions for the use of the VARIVENT / ECOVENT / D-tec / VESTA valves / hygienic butterfly valves and hygienic leakage butterfly valves in potentially explosive areas. This document is a supplement to the general standard operating instructions for the VARIVENT / ECOVENT / D-tec / VESTA valves/ hygienic butterfly valves and hygienic leakage butterfly valves and is therefore always to be considered part of it. These additional operating instructions must be observed before installation and commissioning. Therefore, it should always be available at the operation site of the VARIVENT / ECOVENT / D-tec / VESTA valves / hygienic butterfly valves and hygienic leakage butterfly valves.

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 EX 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 EX 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 EX 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 Tuchenhagen GmbH
Am Industriepark 2-10
21514 Büchen

1.3 Contact

Tel.:+49 4155 49-0
Fax:+49 4155 49-2035
flowcomponents@gea.com
www.gea.com

2 Safety

2.1 Intended use

The VARIVENT / ECOVENT / D-tec / VESTA-valves, hygienic butterfly valves and hygienic leakage butterfly valves are used to open and partially of fully shut off pipe sections. Using the device for any other purpose is considered contrary to its designated use.

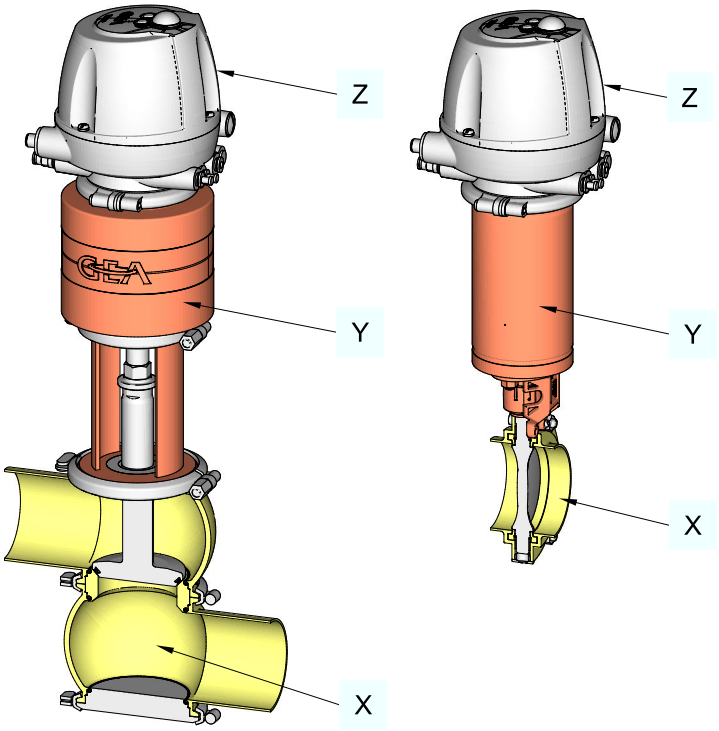


Fig.1

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

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 VARIVENT- / ECOVENT- valves, hygienic butterfly valves and hygienic leakage butterfly 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 of the valve does not fall within the scope of ATEX.

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

2.1.1.2 D-tec stem diaphragm valve

D-tex stem diaphragm valves are intended for use in potentially explosive zones. The corresponding ignition risk assessment resulted that for interior areas - area in contact with the product, such as housing and valve insert - the materials used are electrostatically harmless if used as planned within the scope of the EX classification or zone limitation and and may be used for the potentially explosive zones permitted for the valve.

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

2.1.1.3 VESTA sterile valves

The VESTA sterile valves of GEA Tuchenhagen GmbH intended for use in potentially explosive zones are partially equipped with modified components (selection of suitable materials).

The materials used are electrostatically harmless if used as planned within the scope of the EX classification or zone limitation and and may be used for the potentially explosive zones permitted for the valve.

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 19).

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 15.

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 EX 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 ATEX.

- 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 EX use from GEA Tuchenhagen.

If OEM spare parts are not used for applications in explosion-hazarded zones, the enclosed EX declarations lose their validity and their use in explosion-hazarded zones is no longer permitted.

If the approval for use in explosion hazard zones is on the type plate, please specify this on your spare parts order.

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 Tuchenhagen genuine spare parts.

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

The type plate is usually on the actuators. When ordering spare actuators, always request a new type plate. The type plate includes the corresponding serial number as well as the corresponding EX marking. See also Section 4.2, Page 17.

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 Tuchenhagen GmbH 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. (Guideline on operator responsibility RL 1999/92/EC).

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 there fore 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 EX 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 EX 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	Acethylene				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°C – 5°C = 195°C	Operating / surface temperature: max.150°C/ (30 min.) otherwise 135°C Ambient temperature: max.45°C
T4 = 135°C	135°C – 5°C = 130°C	Operating / surface temperature: 130°C Ambient temperature: max.45°C
T5 = 100°C	100°C– 5°C = 95°C	Operating / surface temperature: 95°C Ambient temperature: max.45°C
T6 = 85°C	85°C– 5°C = 80°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 directives can be applied, i.e. if potential ignition sources are present.

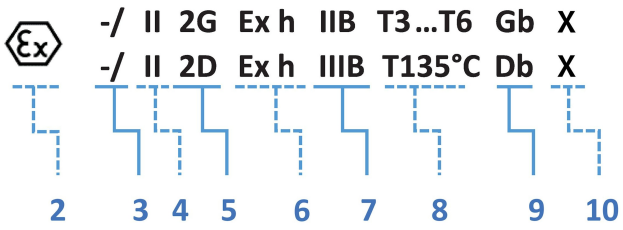


Fig.2: Example for an ATEX marking

Explanation of the example of the ATEX marking	
No	**Explanation**
2	**EX marking**
3	**-/** Interior area, does not fall in the scope of application of ATEX
4	**Device group II** (not mining)
5	**Device group 2** for gases/vapours **G** and dusts **D**
6	**Ex h** applied ignition protection classes
7	**Explosion group IIB** (not mining; sub-group B)
8	**T6 …T3 temperature range** (see Section 3.2, Page 12) max surface temperature +135°C (dust) see Section 3.2, Page 12
9	**Gb** device protection level
10	**X** 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 VARIVENT / ECOVENT and hygienic butterfly valves

Valve types and marking – VARIVENT / ECOVENT and hygienic butterfly valves					
Valve series	**Types**	**Actuator**	**Marking according to ATEX**		**Additional limitations**
			Interior	**Exterior area**	
VARIVENT	N, U, C, Y, D, B, R, K, T_R, L, W, X, POW, P	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
		Air/air actuator	Ex-model without potential ignition source		
	Type N with bellows	Air/spring actuator		II 2G Ex h IIB T3 ... T6 Gb X II 2D Ex h IIIB T135°C Db X	
	IT,TSVN, TSVU, T/09			II 2G Ex h IIB T3 ... T6 Gb X II 2D Ex h IIIB T135°C Db X	
	S		Observe manufacturer's declaration		
	Q	F-CJ		II 2G Ex h IIB T3 ... T6 Gb X II 2D Ex h IIIB T135°C Db X	
		M11, M12, M1, M2		II 2G Ex h IIB T3 ... T6 Gb X II 2D Ex h IIIB T135°C Db X	
		M3/ex, M4/ex		II 2G Ex h IIB T3 ... T6 Gb X II 2D Ex h IIIB T135°C Db X	
	V/ex		Ex-model without potential ignition source		
ECOVENT	N/ECO, W/ECO, N/ECO DN10/15, W/ECO DN10/15			II 2G Ex h IIB T3 ... T6 Gb X II 2D Ex h IIIB T135°C Db X	
Butterfly valve GEA hygienic butterfly valves GEA Hygienic leakage butterfly valves	711-788 988	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			

4.1.2 D-tec stem diaphragm valves

Valve types and marking - D-tec stem diaphragm valve					
Valve series	**Types**	**Actuator**	**EX marking**		**Additional limitations**
			Interior	**Exterior area**	
D-tec	N/DV, W/DV	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
		Air/spring actuator, manual actuator	Observe manufacturer's declaration		

4.1.3 VESTA sterile valves

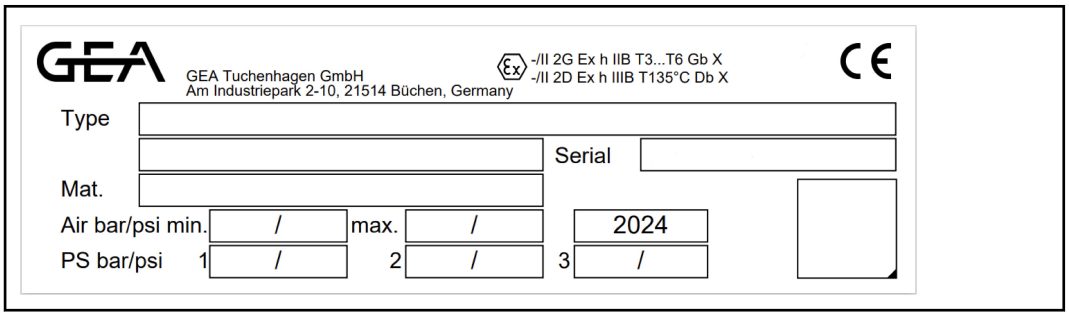
Valve types and marking - VESTA sterile valves					
Valve series	**Types**	**Actuator**	**EX marking**		**Additional limitations**
			Interior	**Exterior area**	
VESTA H_A/H H_A/T/H H_A/T/F/H H_A/I/H	DN 10...32 OD 0.5...1" ISO 13.5...33.7	Manual actuator	--		Observe scope and manufacturer's declaration
VESTA H_A/M H_A/T/M H_A/T/F/M H_A/I/M	DN 10...32 OD 0.5...1" ISO 13.5...33.7	Pneumatic Actuator	II 2G Ex h IIB T3 ... T6 Gb X II 2D Ex h IIIB T135°C Db X		
VESTA H_A/H H_A/T/H H_A/T/F/H	DN 40...100 OD 1.5...4" ISO 42.3...114.3	Manual actuator	--		
VESTA H_A/M H_A/T/M H_A/T/F/M	DN 40...100 OD 1.5...4" ISO 42.3...114.3	Pneumatic Actuator	--	II 2G Ex h IIB T3 ... T6 Gb X II 2D Ex h IIIB T135°C Db X	

4.2 Type plate

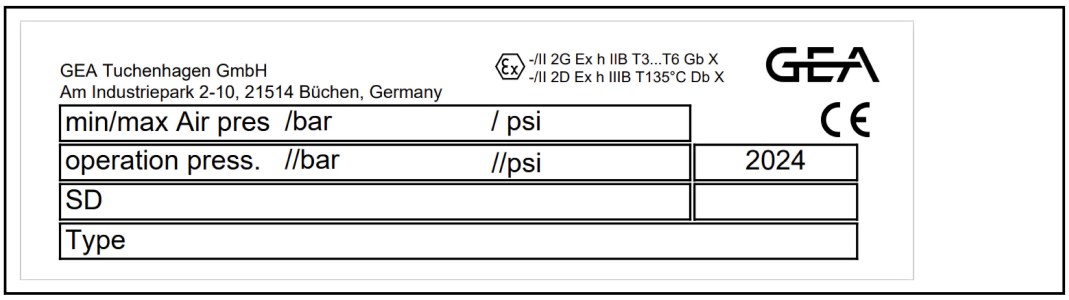
In the case of EX classification in accordance with directives, a corresponding EX marking is included on the type plate. This marking is valid for the complete valve.

The following type plates are examples. Please refer to the classification associated with the valve in the corresponding EU Declaration of Conformity or in the tables in Section 4.1, Page 15.

Generally valid type plate



VESTA type plate



4.3 Further information on hygienic butterfly valves

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.

4.4 Further information on VESTA sterile valves

4.4.1 Spare parts

When ordering spare parts, it is essential that this addition is included in the type name. In the spare parts lists, spare parts that deviate from the standard are marked with the following symbol:

Fig.3

4.5 Scope

ATEX 2014/34/EU

If the VARIVENT / ECOVENT / D-tec / VESTA valves and hygienic butterfly valves are used in areas with a potentially explosive atmosphere, you must absolutely comply with directive ATEX with respect to all ignition hazards.

The VESTA sterile valves are basically intended for operation in zone 1/21 and 2/22.

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

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

Any application area beyond is not permitted. If the VESTA sterile valves are used in areas with a potentially explosive atmosphere, you must absolutely comply with directive ATEX with respect to all ignition hazards.

4.6 Feedback and control top

Only appropriately approved EX sensors may be used in hazardous areas. The existing control modules can be used for EX applications.

Valve type	Control top to be used	Suitability
VARIVENT D-tec stem diaphragm valve GEA Hygienic butterfly valve GEA Hygienic leakage butterfly valve ECOVENT	Control top E-20	Device of group II, ex-zone1/21 Gases and dusts
VESTA XL	Control top S...E	Device of group II, ex-zone1/21 Gases and dusts

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 VARIVENT® valves N, U, C, Y, D, B, R, K, T_R, L, W, X, POW

GEA engineering for a better world

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

Manufacturer: **GEA Tuchenhagen GmbH**
Am Industriepark 2-10
21514 Büchen, Germany

We hereby declare that the devices named below

Model: **VARIVENT®**

Type: **N, U, C, Y, D, B, R, K, T_R, L, W, X, POW**

Design: **Valid for all types without control module and without proximity switch**
Also valid for design variants with lifting actuator (with and without spray cleaning)
Type N with bellow valid only for types with stainless-steel bellows (N_A/S)

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: CE Ex **-/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 ATEX 2014/34/EU is not applicable. 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

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.
- The air/air actuator in Ex-design may be used in zone 1/ 21 and 2/ 22.
- 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 Tuchenhagen GmbH
CE-Documentation Officer
Am Industriepark 2-10
21514 Büchen, Germany

Büchen, 19 January 2022

Franz Bürmann
Managing Director

i.V. Matthias Südel
Senior Director Engineering/ ATEX Inspector

1/1

5.2 Translated copy of the EU declaration of conformity according to ATEX 2014/34/EU VARIVENT® valves N, U, C, Y, D, B, R, K, T_R, L, W, X, POW

Manufacturer: **GEA Tuchenhagen GmbH**
Am Industriepark 2-10
21514 Buchen, Germany

We hereby declare that the devices named below

Model:	**VARIVENT®**
Types:	**N, U, C, Y, D, B, R, K, T_R, L, W, X, POW**
Types:	**Valid for all types without control module and without feedback initiator** **Valid also for models with lifting actuator (with and without spray cleaning)** **Type N with bellows only valid for versions with stainless steel bellows (N_A/S)**

due to its 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: CE Ex **-/II 2G Ex h IIB T3…T6 Gb X**
-/II 2D Ex h IIIB T135°C Db X

Inside the housing (areas in contact with the product), the devices do not have their own potential ignition source and do not fall within the scope of ATEX 2014/34/EU.
In the outdoor area (e.g. lantern, drive) the devices may be used only up to the specified ex-area.

Applicable harmonized standards, in particular: 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

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 use with the above devices must undergo a separate conformity assessment according to ATEX.
- Substances of explosion group IIC and isolating substances are not permitted.
- The air/air actuator as ex-type is intended for operation in zone 1/21 and 2/ 22.
- X: Specific operating conditions such as operating and surface temperatures as well as switching interval of the drives must be observed and can be found in the operating instructions.

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

Büchen, 19 January 2022

Franz Bürmann
Managing Director

i.V. Matthias Südel
Senior Director Engineering / ATEX Inspector

5.3 Declaration of Conformity according to ATEX 2014/34/EU VARIVENT® sampling valve T/09, IT, TSVN, TSVU

GEA engineering for a better world

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

Manufacturer: **GEA Tuchenhagen GmbH**
Am Industriepark 2-10
21514 Büchen, Germany

We hereby declare that the devices named below

Model: **VARIVENT® Sampling Valves**

Type: **T/09, IT, TSVN, TSVU**

Design: **Valid for all types without control module and without proximity switch**
Also valid for design variants with lifting actuator (with and without spray cleaning)

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: CE Ex **-/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 ATEX 2014/34/EU is not applicable. 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

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 Tuchenhagen GmbH
CE-Documentation Officer
Am Industriepark 2-10
21514 Büchen, Germany

Büchen, 19 January 2022

Franz Bürmann
Managing Director

i.V. Matthias Südel
Senior Director Engineering/ ATEX Inspector

1/1

5.4 Translated copy of the EU declaration of conformity according to ATEX 2014/34/EU VARIVENT® sampling valve T/09, IT, TSVN, TSVU

Manufacturer:	**GEA Tuchenhagen GmbH** **Am Industriepark 2-10** **21514 Buchen, Germany**

We hereby declare that the devices named below

Model:	**VARIVENT® sampling valve**
Types:	**T/09, IT, TSVN, TSVU**
Types:	**Valid for all types without control module and without feedback initiator** **Valid also for models with lifting actuator (with and without spray cleaning)**

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**

Inside the housing (areas in contact with the product), the devices do not have their own potential ignition source and do not fall within the scope of ATEX 2014/34/EU.
In the outdoor area (e.g. lantern, drive) the devices may be used only up to the specified ex-area.

Applicable harmonized standards, in particular:	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

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 use with the above devices must undergo a separate conformity assessment according to ATEX.
- Substances of explosion group IIC and isolating substances are not permitted.
- X: Specific operating conditions such as operating and surface temperatures as well as switching interval of the drives must be observed and can be found in the operating instructions.

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

Büchen, 19 January 2022

Franz Bürmann
Managing Director

i.V. Matthias Südel
Senior Director Engineering / ATEX Inspector

5.5 Declaration of Conformity according to ATEX 2014/34/EU VARIVENT® overflow valve Q

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

Manufacturer: **GEA Tuchenhagen GmbH**
Am Industriepark 2-10
21514 Büchen, Germany

We hereby declare that the devices named below

Model: **VARIVENT® Overflow Valve**

Type: **Q**

Design: **with Actuators F-CJ, M11, M12, M1, M2, M3/ex, M4/ex**
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 IIIB T135°C Db X

In the inner valve housing (product area) the equipment does not have a potential ignition source and ATEX 2014/34/EU is not applicable. 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

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 Tuchenhagen GmbH
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Büchen, 19 January 2022

Franz Bürmann
Managing Director

i.V. Matthias Südel
Senior Director Engineering/ ATEX Inspector

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5.6 Translated copy of the EU declaration of conformity according to ATEX 2014/34/EU VARIVENT® overflow valve Q

Manufacturer: **GEA Tuchenhagen GmbH**
Am Industriepark 2-10
21514 Buchen, Germany

We hereby declare that the devices named below

Model:	**VARIVENT® overflow valve**
Types:	**Q**
Types:	**with actuators F-CJ, M11, M12, M1, M2, M3/ex, M4/ex** **Valid for all types without control module and without feedback initiator**

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

Inside the housing (areas in contact with the product), the devices do not have their own potential ignition source and do not fall within the scope of ATEX 2014/34/EU.
In the outdoor area (e.g. lantern, drive) the devices may be used only up to the specified ex-area.

Applicable harmonized standards, in particular: 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

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 use with the above devices must undergo a separate conformity assessment according to ATEX.
- X: Specific operating conditions such as operating and surface temperatures as well as switching interval of the drives must be observed and can be found in the operating instructions.

Person authorised for compilation and handover of technical documentation: **GEA Tuchenhagen GmbH**
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Büchen, 19 January 2022

Franz Bürmann
Managing Director

i.V. Matthias Südel
Senior Director Engineering / ATEX Inspector

5.7 Manufacturer's Declaration regarding ATEX 2014/34/EU VARIVENT® vacuum valve V/ex not being relevant

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

Manufacturer: **GEA Tuchenhagen GmbH**
Am Industriepark 2-10
21514 Büchen, Germany

We hereby declare that the devices named below

Model: **VARIVENT® Vacuum Valve**

Type: **V/ex**

Design: **Valve-Disc manufactured from steel**
Valve-Disc is grounded by ground wire
Housing cover is manufactured from antistatic plastic

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 ATEX 2014/34/EU is not applicable.
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

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: 0, 1, 2.
- Intended use in outside area (exterior vacuum housing) of the equipment is zone: 1, 2.

Person authorized for compilation and handover of technical documentation:

GEA Tuchenhagen GmbH
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Büchen, 19 January 2022

Franz Bürmann
Managing Director

i.V. Matthias Südel
Senior Director Engineering/ ATEX Inspector

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5.8 Translated copy of the manufacturer's declaration regarding ATEX 2014/34/EU VARIVENT® vacuum valve V/ex not being relevant

Manufacturer: **GEA Tuchenhagen GmbH**
Am Industriepark 2-10
21514 Buchen, Germany

We hereby declare that the devices named below

Model:	**VARIVENT® vacuum valve**
Types:	**V/ex**
Types:	**Valid for valve disks made from stainless steel and grounded via grounding strands** **Housing cover made from antistatic plastic**

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 devices do not have their own potential ignition source and do not fall within the scope of ATEX 2014/34/EU.
The valves may be used in areas with potentially explosive atmospheres.

Applicable harmonized standards, in particular:
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

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 use with the above devices must undergo a separate conformity assessment according to ATEX.
- Substances of explosion group IIC and isolating substances are not permitted.
- The device is intended inside the housing (areas in contact with the product) for operation in the following zones 0, 1, and 2.
- In the outdoor areas (e.g. external vacuum housing) the device is intended for operation in the following zones 1, 2.

Person authorised for compilation and handover of technical documentation:
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Büchen, 19 January 2022

Franz Bürmann
Managing Director

i.V. Matthias Südel
Senior Director Engineering / ATEX Inspector

5.9 Manufacturer's Declaration regarding ATEX 2014/34/EU VARIVENT® control valve S not being relevant

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

Manufacturer: **GEA Tuchenhagen GmbH**
Am Industriepark 2-10
21514 Büchen, Germany

We hereby declare that the devices named below

Model: **VARIVENT® Modulating Control Valve**

Type: **S**

Design: **Valid for all types without actuator and feedback switches.**

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 ATEX 2014/34/EU is not applicable.
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

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.
- The actuators type S and the feedback switches have to undergo a separate assessment of conformity.
- Additional hazards caused by the installation of these components in the valve are not given.

Person authorized for compilation and handover of technical documentation:

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CE-Documentation Officer
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Büchen, 19 January 2022

Franz Bürmann
Managing Director

i.V. Matthias Südel
Senior Director Engineering/ ATEX Inspector

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5.10 Translated copy of the manufacturer's declaration regarding ATEX 2014/34/EU VARIVENT® control valve S

Manufacturer: **GEA Tuchenhagen GmbH**
Am Industriepark 2-10
21514 Buchen, Germany

We hereby declare that the devices named below

Model:	**VARIVENT® control valve**
Types:	**S**
Types:	**Valid for all types without actuator and feedback initiator.**

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 devices do not have their own potential ignition source and do not fall within the scope of ATEX 2014/34/EU.
The valves may be used in areas with potentially explosive atmospheres.

Applicable harmonized standards, in particular:	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

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 use with the above devices must undergo a separate conformity assessment according to ATEX.
- Substances of explosion group IIC and isolating substances are not permitted.
- The type S actuators and the feedback switches must undergo a separate conformity assessment according to ATEX.
- No additional hazards caused by the installation of these devices arise at the valve.

Person authorised for compilation and handover of technical documentation:
GEA Tuchenhagen GmbH
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Büchen, 19 January 2022

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Managing Director

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Senior Director Engineering / ATEX Inspector

5.11 Declaration of Conformity according to ATEX 2014/34/EU ECOVENT® shut-off valves N/ECO, W/ECO and N/ECO DN10/15, W/ECO DN10/15

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

Manufacturer: **GEA Tuchenhagen GmbH**
Am Industriepark 2-10
21514 Büchen, Germany

We hereby declare that the devices named below

Model: **ECOVENT®**

Type: **N/ECO, W/ECO, N/ECO DN10/15, W/ECO DN10/15**

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 IIIB T135°C Db X

In the inner valve housing (product area) the equipment does not have a potential ignition source and ATEX 2014/34/EU is not applicable. 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
EN ISO 80079-36:2016
EN ISO 80079-37:2016

Other applied standards and technical specifications: TRGS 727:2016

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 Tuchenhagen GmbH
CE-Documentation Officer
Am Industriepark 2-10
21514 Büchen, Germany

Büchen, 19 January 2022

Franz Bürmann
Managing Director

i.V. Matthias Südel
Senior Director Engineering/ ATEX Inspector

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Fig.4

5.12 Translated copy of the EU Declaration of Conformity according to ATEX 2014/34/EU ECOVENT® N/ECO, W/ECO, N/ECO DN10/15, W/ECO DN10/15

Manufacturer: **GEA Tuchenhagen GmbH**
Am Industriepark 2-10
21514 Buchen, Germany

We hereby declare that the devices named below

Model:	**ECOVENT®**
Types:	**N/ECO, W/ECO, N/ECO DN10/15, W/ECO DN10/15**
Types:	**Valid for all types without control module and without feedback initiator**

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

Inside the housing (areas in contact with the product), the devices do not have their own potential ignition source and do not fall within the scope of ATEX 2014/34/EU.
In the outdoor area (e.g. lantern, drive) the devices may be used only up to the specified ex-area.

Applicable harmonized standards, in particular: EN 1127-1:2019-10
EN ISO 80079-36:2016
EN ISO 80079-37:2016

Other applied standards and technical specifications: TRGS 727:2016

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 use with the above devices must undergo a separate conformity assessment according to ATEX.
- Substances of explosion group IIC and isolating substances are not permitted.
- X: Specific operating conditions such as operating and surface temperatures as well as switching interval of the drives must be observed and can be found in the operating instructions.

Person authorised for compilation and handover of technical documentation:
GEA Tuchenhagen GmbH
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Büchen, 19 January 2022

Franz Bürmann
Managing Director

i.V. Matthias Südel
Senior Director Engineering / ATEX Inspector

5.13 Declaration of Conformity according to ATEX 2014/34/EU, GEA hygienic butterfly valves, GEA hygienic leakage butterfly valve

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

Manufacturer: **GEA Tuchenhagen GmbH**
Am Industriepark 2-10
21514 Büchen, Germany

We hereby declare that the devices named below

Model:	**GEA Hygienic Butterfly Valves** **GEA Hygienic Leckage Butterlfy Valves**
Type:	**711 -788** **988**
Design:	**Valid for all types without control module and without proximity switch.** **Valid only for types with IGLIDUR-F friction-bearings.** **Also valid for design variants with booster cylinder; two- position cylinder; 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

Identification: CE Ex **-/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 ATEX 2014/34/EU is not applicable. 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

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 Tuchenhagen GmbH
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21514 Büchen, Germany

Büchen, 19 January 2022

Franz Bürmann
Managing Director

i.V. Matthias Südel
Senior Director Engineering/ ATEX Inspector

1/1

Fig.5

5.14 Translated copy of the Declaration of Conformity according to ATEX 2014/34/EU, GEA hygienic butterfly valves, GEA hygienic leakage butterfly valve

Manufacturer: **GEA Tuchenhagen GmbH**
Am Industriepark 2-10
21514 Buchen, Germany

We hereby declare that the devices named below

Model:	**GEA Hygienic butterfly valve** **GEA Hygienic leakage butterfly valve**
Types:	**711- 788** **988**
Types:	**Valid for all types without control module and without feedback initiator.** **Only valid for models with IGLIDUR-F plain bearing.** **Valid also for types with booster cylinder, two-position stop, LOTO and extensions.**

due to its 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: CE Ex **-/II 2G Ex h IIB T3…T6 Gb X**
-/II 2D Ex h IIIB T135°C Db X

Inside the housing (areas in contact with the product), the devices do not have their own potential ignition source and do not fall within the scope of ATEX 2014/34/EU.
In the outdoor area (e.g. lantern, drive) the devices may be used only up to the specified ex-area.

Applicable harmonized standards, in particular: 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

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 use with the above devices must undergo a separate conformity assessment according to ATEX.
- Substances of explosion group IIC and isolating substances are not permitted.
- X: Specific operating conditions such as operating and surface temperatures as well as switching interval of the drives must be observed and can be found in the operating instructions

Person authorised for compilation and handover of technical documentation:
GEA Tuchenhagen GmbH
CE Documentation Officer
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Büchen, 19 January 2022

Franz Bürmann
Managing Director

i.V. Matthias Südel
Senior Director Engineering / ATEX Inspector

5.15 Manufacturer's Declaration regarding the non-relevance of ATEX 2014/34/EU GEA hygienic butterfly valves with manual actuator, GEA hygienic leakage butterfly valve with manual actuator

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

Manufacturer: **GEA Tuchenhagen GmbH**
Am Industriepark 2-10
21514 Büchen, Germany

We hereby declare that the devices named below

Model:	**GEA Hygienic Butterfly Valves with Manual Actuator** **GEA Hygienic Leckage Butterlfy Valves with Manual Actuator**
Type:	**711-788** **988**
Design:	**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 ATEX 2014/34/EU is not applicable.
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

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:

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CE-Documentation Officer
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Büchen, 19 January 2022

Franz Bürmann
Managing Director

i.V. Matthias Südel
Senior Director Engineering/ ATEX Inspector

1/1

Fig.6

5.16 Translated copy of the Manufacturer's Declaration regarding the non-relevance of ATEX 2014/34/EU GEA hygienic butterfly valves with manual actuator, GEA hygienic leakage butterfly valve with manual actuator

Manufacturer: **GEA Tuchenhagen GmbH**
Am Industriepark 2-10
21514 Buchen, Germany

We hereby declare that the devices named below

Model:	**GEA hygienic butterfly valve with manual actuator** **GEA hygienic leakage butterfly valve with manual actuator**
Types:	**711- 788** **988**
Types:	**Valid for types with manual actuator and without feedback initiator** **Only valid for models with IGLIDUR-F plain bearing.** **Valid for types with LOTO and extensions.**

due to its 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 devices do not have their own potential ignition source and do not fall within the scope of ATEX 2014/34/EU.
The valves may be used in areas with potentially explosive atmospheres.

Applicable harmonized standards, in particular:	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

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 use with the above devices must undergo a separate conformity assessment according to ATEX.
- Substances of explosion group IIC and isolating substances are not permitted.
- The device is intended inside the housing (areas in contact with the product) for operation in the following zones for gas 0,1; and 2 and for dust 20, 21 and 22.
- In the outdoor areas (e.g. lantern;) the device is intended for operation in zones for gas1, 2 and for dust 21, 22.

Person authorised for compilation and handover of technical documentation:

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Büchen, 19 January 2022

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Senior Director Engineering / ATEX Inspector

5.17 Declaration of Conformity according to ATEX 2014/34/EU D-tec® N/DV, W/DV

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

Manufacturer: **GEA Tuchenhagen GmbH**
Am Industriepark 2-10
21514 Büchen, Germany

We hereby declare that the devices named below

Model: **D-tec®**

Type: **N/DV, W/DV**

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: CE Ex **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) and in the outside area (lantern and 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

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.
- The air/air actuator in Ex-design may be used in zone 1/21 and 2/22.
- 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 Tuchenhagen GmbH
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Am Industriepark 2-10
21514 Büchen, Germany

Büchen, 19 January 2022

Franz Bürmann
Managing Director

i.V. Matthias Südel
Senior Director Engineering/ ATEX Inspector

1/1

Fig.7

5.18 Translated copy of the EU declaration of conformity according to ATEX 2014/34/EU D-tec® N/DV, W/DV

Manufacturer: **GEA Tuchenhagen GmbH**
Am Industriepark 2-10
21514 Buchen, Germany

We hereby declare that the devices named below

Model:	**D-tec®**
Types:	**N/DV, W/DV**
Types:	**Valid for all types without control module and without feedback initiator.**

due to its 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: CE Ex **II 2G Ex h IIB T3…T6 Gb X**
II 2D Ex h IIIB T135°C Db X

The devices may be used inside the housing (area in contact with the product) and outside (lantern and actuator) up to the specified ex-area.

Applicable harmonized standards, in particular: 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

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 use with the above devices must undergo a separate conformity assessment according to ATEX.
- Substances of explosion group IIC and isolating substances are not permitted.
- The air/air actuator as ex-type is intended for operation in zone 1/21 and 2/ 22.
- X: Specific operating conditions such as operating and surface temperatures as well as switching interval of the drives must be observed and can be found in the operating instructions.

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

Büchen, 19 January 2022

Franz Bürmann
Managing Director

i.V. Matthias Südel
Senior Director Engineering / ATEX Inspector

5.19 Manufacturer's Declaration regarding ATEX 2014/34/EU D-tec® N/DV, W/DV not being relevant

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

Manufacturer: **GEA Tuchenhagen GmbH**
Am Industriepark 2-10
21514 Büchen, Germany

We hereby declare that the devices named below

Model: **D-tec®**

Type: **N/DV, W/DV**

Design: **Valid for types with manual actuator and without electrical devices.**

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 ATEX 2014/34/EU is not applicable for manually operated valves and the equipment does not have a potential ignition source if used as designated. The valves may be used in areas with explosive atmospheres are used in compliance with the remarks.

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

Remarks:
- Intended use of the device is basically just zone 1/21 and 2/22.
- 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.

Person authorized for compilation and handover of technical documentation:

GEA Tuchenhagen GmbH
CE-Documentation Officer
Am Industriepark 2-10
21514 Büchen, Germany

Büchen, 19 January 2022

Franz Bürmann
Managing Director

i.V. Matthias Südel
Senior Director Engineering/ ATEX Inspector

1/1

Fig.8

5.20 Translated copy of the manufacturer's declaration regarding ATEX 2014/34/ Manufacturer tec® N/DV, W/DV not being relevant

Manufacturer: **GEA Tuchenhagen GmbH**
Am Industriepark 2-10
21514 Buchen, Germany

We hereby declare that the devices named below

Model:	**D-tec®**
Types:	**N/DV, W/DV**
Types:	**Valid for types with manual actuator and without feedback initiator.**

due to its 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

Manually operated valves do not fall within the scope of application of ATEX 2014/34/EU and do not have their own potential ignition source when used as intended. The valves may be used in areas with potentially explosive atmospheres under consideration of the remarks.

Applicable harmonized standards, in particular:	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

Remarks:

- The device is intended only for operation in zone 1/21 and 2/22.
- 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 use with the above devices must undergo a separate conformity assessment according to ATEX.
- Substances of explosion group IIC and isolating substances are not permitted.

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

Büchen, 19 January 2022

Franz Bürmann
Managing Director

i.V. Matthias Südel
Senior Director Engineering / ATEX Inspector

5.21 EU - Declaration of Conformity according to ATEX 2014/34/EU VESTA H_A/T/M, H_A/T/F/M, H_A/M, H_A/I/M DN 10-32, OD ½"-1", ISO 13.5-33.7

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

Manufacturer: **GEA Tuchenhagen GmbH**
Am Industriepark 2-10
21514 Büchen, Germany

We hereby declare that the devices named below

Model:	**VESTA**
Type:	**H_A/T/M** **H_A/T/F/M** **H_A/M** **H_A/I/M**
Size	**DN 10-32, OD ½"-1", ISO 13,5-33,7**
Design:	**Valid for types with stainless-steel lantern/ stainless-steel actuator.** **Valid for types without electrical devices and components.**

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 directive

Identification: CE Ex **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) and in the outside area (lantern and actuator) the equipment may be used only up to the Ex-range mentioned.

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

Other applied standards and technical specifications: TRGS 727:2016

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 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 Tuchenhagen GmbH
CE-Documentation Officer
Am Industriepark 2-10
21514 Büchen, Germany

Büchen, 04 November 2022

Franz Bürmann
Managing Director

i.A. Stephan Dirks
Director Hygienic Valves I & Control Tops

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Fig.9

5.22 Translated copy of the EU-Declaration of Conformity according to ATEX 2014/34/EU VESTA H_A/T/M, H_A/T/F/M, H_A/M, H_A/I/M DN 10-32, OD ½"-1", ISO 13.5-33.7

Manufacturer: **GEA Tuchenhagen GmbH**
Am Industriepark 2-10
21514 Buchen, Germany

We hereby declare that the devices named below

Model:	**VESTA**
Types:	**H_A/T/M** **H_A/T/F/M** **H_A/M** **H_A/I/M**
Size:	**DN 10-32, OD ½"-1", ISO 13.5-33.7**
Types:	**Valid for types with stainless steel lantern/ stainless steel drive.**
	Valid for versions without electrical devices and components.

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 directive

Identification: CE Ex **II 2G Ex h IIB T3…T6 Gb X**
II 2D Ex h IIIB T135°C Db X

The devices may be used inside the housing (area in contact with the product) and outside (lantern and actuator) up to the specified ex-area.

Applicable harmonized standards, in particular:	EN 1127-1:2019 EN ISO 80079-36:2016 EN ISO 80079-37:2016
Other applied standards and technical specifications:	TRGS 727:2016

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 with the above devices must undergo a separate conformity assessment according to ATEX.
- Substances of explosion group IIC and isolating substances are not permitted.
- X: Specific operating conditions such as operating and surface temperatures as well as switching interval of the drives must be observed and can be found in the operating instructions.

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

Büchen, 04. November 2022

Franz Bürmann
Managing Director

pp Stephan Dirks
Director Hygienic Valves I & Control Tops

5.23 Manufacturer's declaration of the non-relevance of ATEX 2014/34/EU VESTA H_A/T/H, H_A/T/F/H, H_A/H, H_A/I/H DN 10-32, OD ½"-1", ISO 13.5-33.7

Engineering for a better world.

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

Manufacturer: **GEA Tuchenhagen GmbH**
Am Industriepark 2-10
21514 Büchen, Germany

We hereby declare that the devices named below

Model: **VESTA**

Type: **H_A/T/H**
H_A/T/F/H
H_A/H
H_A/I/H

Size: **DN 10-32, OD ½"-1", ISO 13,5-33,7**

Design: **Valid for types without electrical devices and components.**
Valid for types with stainless-steel lantern.

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 ATEX 2014/34/EU is not applicable for manually operated valves and the equipment does not have a potential ignition source if used as designated. The valves may be used in areas with explosive atmospheres are used in compliance with the remarks.

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

Remarks:
- Intended use of the device is basically just zone 1/ 21 and 2/ 22.
- 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.
- 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 Tuchenhagen GmbH
CE-Documentation officer
Am Industriepark 2-10
21514 Büchen, Germany

Büchen, 04 November 2022

Franz Bürmann
Managing Director

i.A. Stephan Dirks
Director Hygienic Valves I & Control Tops

1/1

Fig.10

5.24 Translated copy of the Manufacturer's Declaration of the non-relevance of ATEX 2014/34/EU VESTA H_A/T/H, H_A/T/F/H, H_A/H, H_A/I/H DN 10-32, OD ½"-1", ISO 13.5-33.7

Manufacturer: **GEA Tuchenhagen GmbH**
Am Industriepark 2-10
21514 Buchen, Germany

We hereby declare that the devices named below

Model:	**VESTA**
Types:	**H_A/T/H** **H_A/T/F/H** **H_A/H** **H_A/I/H**
Size:	**DN 10-32, OD ½"-1", ISO 13.5-33.7**
Types:	**Valid for versions without electrical devices and components.**
	Valid for types with stainless steel lantern.

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

Manually operated valves do not fall within the scope of application of ATEX 2014/34/EU and do not have their own potential ignition source when used as intended.
The valves may be used in areas with potentially explosive atmospheres under consideration of the remarks.

Applicable harmonized standards, in particular:	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

Remarks:

- The device is intended only for operation in zone 1/21 and 2/22.
- 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 use with the above devices must undergo a separate conformity assessment according to ATEX.
- Substances of explosion group IIC and isolating substances are not permitted.
- Specific operating conditions such as operating and surface temperatures as well as switching interval of the drives must be observed and can be found in the operating instructions.

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

Büchen, 04. November 2022

Franz Bürmann
Managing Director

by order Stephan Dirks
Director Hygienic Valves I & Control T

5.25 EU- Declaration of Conformity according to ATEX 2014/34/EU VESTA H_A/T/M, H_A/T/F/M, H_A/M DN 40-100, OD 1 ½"-4", ISO 42.4- 114.3

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

Manufacturer: **GEA Tuchenhagen GmbH**
Am Industriepark 2-10
21514 Büchen, Germany

We hereby declare that the devices named below

Model: **VESTA**

Type: **H_A/T/M**
H_A/T/F/M
H_A/M

Size **DN 40-100, OD 1 ½"-4", ISO 42,4- 114,3**

Design **Valid for types without electrical devices and components.**
Valid for types with stainless-steel lantern, TMOF-0040 bellow-seal and PEEK-CF10 sleeve and guide.

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 directive

Identification: CE Ex **-/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) and in the outside area (lantern and actuator) the equipment may be used only up to the Ex-range mentioned.

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

Other applied standards and technical specifications: TRGS 727:2016

Remarks:
- Intended use of the device is basically just zone 1/ 21 and 2/ 22.
- 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 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 Tuchenhagen GmbH
CE-Documentation Officer
Am Industriepark 2-10
21514 Büchen, Germany

Büchen, 04 November 2022

Franz Bürmann
Managing Director

i.A. Stephan Dirks
Director Hygienic Valves I & Control Tops

1/1

Fig.11

5.26 Translated copy of EU Declaration of Conformity according to ATEX 2014/34/EU VESTA H_A/T/M H_A/T/F/M H_A/M DN 40-100, OD 1 ½"-4", ISO 42.4- 114.3

Manufacturer: **GEA Tuchenhagen GmbH**
Am Industriepark 2-10
21514 Buchen, Germany

We hereby declare that the devices named below

Model:	**VESTA**
Types:	**H_A/T/M** **H_A/T/F/M** **H_A/M**
Size:	**DN 40-100, OD 1 ½"-4", ISO 42.4- 114.3**
Types:	**Valid for versions without electrical devices and components.**
	Valid for versions with stainless steel lantern/stainless steel actuator and TMOF-0040 bellows.

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 directive

Identification: CE Ex **-/II 2G Ex h IIB T3…T6 Gb X**
-/II 2D Ex h IIIB T135°C Db X

The devices may be used inside the housing (area in contact with the product) and outside (lantern and actuator) up to the specified ex-area.

Applicable harmonized standards, in particular: EN 1127-1:2019
EN ISO 80079-36:2016
EN ISO 80079-37:2016

Other applied standards and technical specifications: TRGS 727:2016

Remarks:

- The device is intended only for operation in zone 1/21 and 2/22.
- 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 with the above devices must undergo a separate conformity assessment according to ATEX.
- Substances of explosion group IIC and isolating substances are not permitted.
- X: Specific operating conditions such as operating and surface temperatures as well as switching interval of the drives must be observed and can be found in the operating instructions.

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

Büchen, 04. November 2022

Franz Bürmann
Managing Director

by order Stephan Dirks
Director Hygienic Valves I & Control Tops

5.27 Manufacturer's Declaration regarding the non-relevance of ATEX 2014/34/EU VESTA H_A/T/H, H_A/T/F/H, H_A/H DN 40-100, OD 1,5"-4", ISO 42.4-114.3

Engineering for a better world.

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

Manufacturer: **GEA Tuchenhagen GmbH**
Am Industriepark 2-10
21514 Büchen, Germany

We hereby declare that the devices named below

Model:	**VESTA**
Type:	**H_A/T/H** **H_A/T/F/H** **H_A/H**
Size:	**DN 40-100, OD 1 ½"-4", ISO 42,4- 114,3**
Design:	**Valid for types without electrical devices and components.** **Valid for types with stainless-steel lantern, TMOF-0040 bellow-seal and PEEK-CF10 sleeve and guide.**

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 ATEX 2014/34/EU is not applicable for manually operated valves and the equipment does not have a potential ignition source if used as designated. The valves may be used in areas with explosive atmospheres are used in compliance with the remarks.

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

Remarks:

- Intended use of the device is basically just zone 1/21 and 2/22.
- 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.
- 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 Tuchenhagen GmbH
CE-Documentation Officer
Am Industriepark 2-10
21514 Büchen, Germany

Büchen, 04 November 2022

Franz Bürmann
Managing Director

i.A. Stephan Dirks
Director Hygienic Valves I & Control Tops

1/1

Fig.12

5.28 Translated copy of the manufacturer's declaration regarding the non-relevance of ATEX 2014/34/EU VESTA H_A/T/H, H_A/T/F/H, H_A/H DN 40-100, OD 1 ½"-4", ISO 42.4- 114.3

Manufacturer: **GEA Tuchenhagen GmbH**
Am Industriepark 2-10
21514 Buchen, Germany

We hereby declare that the devices named below

Model:	**VESTA**
Types:	**H_A/T/H** **H_A/T/F/H** **H_A/H**
Size:	**DN 40-100, OD 1 ½"-4", ISO 42.4- 114.3**
Types:	**Valid for versions without electrical devices and components.**
	Valid for versions with stainless steel lantern/stainless steel actuator and TMOF-0040 bellows

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

Manually operated valves do not fall within the scope of application of ATEX 2014/34/EU and do not have their own potential ignition source when used as intended. The valves may be used in areas with potentially explosive atmospheres under consideration of the remarks.

Applicable harmonized standards, in particular:	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

Remarks:

- The device is intended only for operation in zone 1/21 and 2/22.
- 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 use with the above devices must undergo a separate conformity assessment according to ATEX.
- Substances of explosion group IIC and isolating substances are not permitted.
- Specific operating conditions such as operating and surface temperatures as well as switching interval of the drives must be observed and can be found in the operating instructions.

Person authorised for compilation and handover of technical documentation:

GEA Tuchenhagen GmbH
CE Documentation Officer
Am Industriepark 2-10
21514 Büchen, Germany

Büchen, 04. November 2022

Franz Bürmann
Managing Director

by order Stephan Dirks
Dirks Director Hygienic Valves I & Control Tops

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a better world

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GEA Group is a global engineering company with multi-billion euro sales and operations in more than 50 countries. Founded in 1881, the company is one of the largest providers of innovative equipment and process technology. GEA Group is listed in the STOXX® Europe 600 Index.

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