



RT Valvole Industriali S.r.l.

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Declaration of Conformity

In accordance to European Directive 2014/34/EC (ATEX) and EN 45014

Equipment intended for use in Potentially Explosive Atmospheres

Herewith we, RT Valvole Industriali S.r.l., Via Alle Cave 25/29 – Turbigo (MI) – Italy, declare under our responsibility that following products are intended for use as equipment of group II Category 2 of European Directive 2014/34/EU (ATEX) and their conformity has been verified applying the criteria of module “Internal control of the production” according to Annex VIII of the Directive with reference to the below indicated standards. The equipment then can be used in areas classified as zone 1 or 2 or 21 or 22 according to EN 1127-1

Models (Fig. No.)	Type	Applicable standards
205 / 305 / 405 / 405-H / 505	Gate valve inside screw	EN 1127-1 / EN 13463-1 / EN 13463-5 / EN 1050
210 / 310 / 410 / 410-H / 510	Gate valve outside screw	EN 1127-1 / EN 13463-1 / EN 13463-5 / EN 1050
235 / 335 / 445 / 445-H / 545	Gate valve inside screw	EN 1127-1 / EN 13463-1 / EN 13463-5 / EN 1050
240 / 340 / 440 / 440-H / 540	Gate valve outside screw	EN 1127-1 / EN 13463-1 / EN 13463-5 / EN 1050
250 / 350 / 450 / 450-H / 550	Gate valve outside screw	EN 1127-1 / EN 13463-1 / EN 13463-5 / EN 1050
260 / 360 / 460 / 460-H / 560	Gate valve outside screw	EN 1127-1 / EN 13463-1 / EN 13463-5 / EN 1050
260 / 360 / 460 / 460-H / 560	Gate valve outside screw	EN 1127-1 / EN 13463-1 / EN 13463-5 / EN 1050
261 / 361 / 461 / 461-H / 561	Gate valve outside screw	EN 1127-1 / EN 13463-1 / EN 13463-5 / EN 1050
270 / 370 / 470 / 470-H / 570	Swing check valve	EN 1127-1 / EN 13463-1 / EN 13463-5 / EN 1050
280 / 380 / 480 / 480-H / 580	Swing check valve	EN 1127-1 / EN 13463-1 / EN 13463-5 / EN 1050
290 / 390 / 490 / 490-H / 590	Swing check valve	EN 1127-1 / EN 13463-1 / EN 13463-5 / EN 1050
291 / 391 / 491 / 491-H / 591	Swing check valve	EN 1127-1 / EN 13463-1 / EN 13463-5 / EN 1050

Technical file details:

Notified Body holding the file: TÜV Italia – Gruppo TÜV SÜD – Sesto San Giovanni - Italia
Acknowledgement of receipt no. TÜV IT 16 ATEX 035 AR

This declaration is valid only for the valve as separate equipment. Other operation devices or instruments or controls, installed on the valve such as but not limited to actuators, gearboxes, limits switches must provided by separate declaration of conformity.

The authorized Representative



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ATEX Operating Instructions

Before to install or use a valve in a potentially explosive atmospheres please read and follow strictly the below instruction. In case of potentially explosive atmosphere the instructions according to Annex I point 3.4 of European Directive 2014/68/EU (PED), that are always supplied with the product and must be always applied, are also integrated with the below instructions that must be applied together. These instruction don't replace in any case all other the instructions supplied. If you don't received the instruction according European Directive 2014/68/EU (PED) you must ask for it directly to RT Valvole Industriali or to your local supplier before to install the valve.

GENERAL

A) Operating limits and design basis including anticipated operating and assumed design conditions

- 1) The valves marked Ex according to directive 2014/34/EU and marked as II 2 GD can be used in potentially explosive atmospheres classified as zone 2 or 22.
- 2) If the valve is provided with devices or actuators please check that also these devices are suitable for the specific application regarding the classification limits according to ATEX directive 2014/34/EU.
- 3) The temperature classification of the valves is entirely dependant on the process fluid passing through the valve. If relevant, this requirement must be established by the end user and must not exceed the limits specified in the CE tag plate.

B) Design standard

The valve have been designed to meet the requirement of EN 13463-1 for mechanical equipments.

C) Estimated lifetime

To maintain his characteristics of explosion protection safety the valve must be maintained according the supplied operating instructions. In such case the valve will maintain these characteristics during all the life time limited only by service conditions as specified in the operating instructions according of European Directive 2014/68/EU.

D) Features of the design relevant to the life of the component

To maintain the characteristics of explosion protection safety it's binding, during installation and maintenance works to avoid to scratches and damages on all moving parts such as stem, nuts and support bearings.

E) Residual hazards not prevented by design or protective measures, that might arise from foreseeable misuse

For installation and maintenance works use only tools Ex certified according to ATEX for a suitable group and category.

F) Other technical documents

- 1) Refer always also to operating instructions according to European Directive 2014/68/EU.
- 2) If the valves are provided with electric, pneumatic or hydraulic actuators, or other electrical devices or gearboxes please refer also to the manuals of these devices for a correct and safe installation in potentially explosive areas.
- 3) For more detailed instructions please refer also to our installation handbook available on this internet site: www.rivalves.com.

G) Information about replaceable parts

We recommend to replace damaged or worn parts only with original spare parts supplied by RT. The use of not original spare parts can be a source of risk or can cause the loss of the explosion protection safety characteristics.

TRANSPORTATION AND INSTALLATION

A) Storage and transport aspects

- 1) Don't remove the original packing until the moment of the installation and move the valve with means compatible with the packaging type.
- 2) During installation works avoid to submit the valve to shocks or impact with other metallic parts such tools, adjacent flanges, pipelines, etc.
- 3) Welding and / or cutting operation must be performed only in safe working area outside of the potentially explosive atmosphere.

PUTTING IN SERVICE

A) Details on operating conditions

- 1) Please check always that the operating conditions are compatible with the ATEX classification of the valve and of the optional devices (if installed on the valve).
- 2) The installation must be carried out at ambient temperature.

B) Additional safety requirements associated with commissioning or start up

- 1) Ensure that the equipment must be suitability earthed.
- 2) Lubricate the moving parts as stem and nuts (excluding the valves for oxygen service) with a grease with ignition point over the maximum service temperature and that cannot cause exothermic chemical reaction with the service fluid or with external atmosphere.

C) Specific protective measures

- 1) In case of oxygen service follow strictly all cleanliness measures established for this service and don't lubricate absolutely the valve.
- 2) Use only tools with ATEX certification suitable for the specific operating conditions (see also EN 1127-1 annex A)
- 3) Follow always all other safety instruction for the devices installed on the valves for explosion protection safety.
- 4) When the valve is intended to carry hot fluids or fluids with potentially exothermic reaction the installer must provide suitable protections to avoid contact of the potentially explosive atmosphere with the valve surface.

USE / OPERATION

A) Description of correct operating parameters

- 1) The valves cannot be used outside of the limits for the specified ATEX classification and always in the limits specified also in the CE tag plate.
- 2) Never use hammers, lever or other external devices connected to handwheel to operate manual valves.
- 3) If the valves are predisposed for actuator assembly the actuator must be selected with rotational speed under 130 RPM or linear speed under 0,8 m/s
- 4) All other devices that are fitted by the user on the valve after the delivery must be certified in the same ATEX category of the valve or higher.

B) Requirement on training or qualification of operators

Only trained personnel with specific skills in the field of valves and pressure vessels can perform installation and maintenance works.

C) Risks in case of inappropriate use

If the valve is used outside of the limits of the ATEX classification specified or outside of the limits specified in the CE tag plate it can become a source of ignition and can cause fire or explosions.

MAINTENANCE AND INSPECTION

- 1) For maintenance works use only tools with appropriate ATEX certification (see also EN 1127-1 annex A)
- 2) Verify frequently all the bolted connection and replace periodically gaskets and packing to avoid leakage of dangerous or flammable fluids.
- 3) Empty and vent the valve before to dismantle it: never dismantle the valve with service fluid inside.

In case of doubt, before to proceed, please contact us at this address: info@rtvalves.com or consult our internet site www.rivalves.com.