BIANCA - Execution according to ATEX

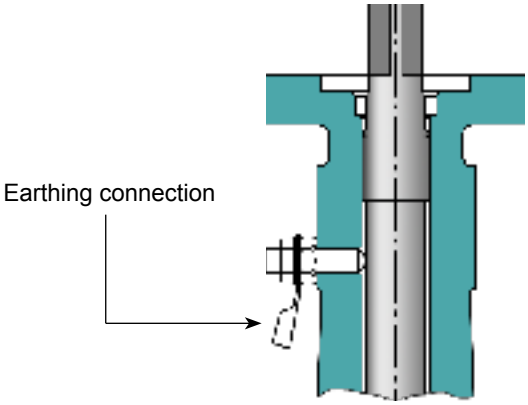
The special versions of the Bianca valves suitable for the use in explosive atmospheres are as described below. If you need assistance to choose the right version suitable to your specific application, contact our technical department. For this, we absolutely need to know the group and the category of equipment, the atmosphere outside the valve and the kind of fluid and its condition inside the valve.

Special code	ATEX-marking	Version	Comments
106	Ex II 2G(i)/2GD(o) c IIC X	• Earthing connection • Type label with ATEX marking (see left)	Declaration of conformity
107	Ex II 1G(i)/2GD(o) c IIC X	• Earthing connection • Type label with ATEX marking	EC type-examination by notified body
108	Ex II 1GD(i)/2GD(o) c IIC X	• Earthing connection • Conductive liner (Code **TSA**) • Disc – conductive PFA (Code **4GA/3BA**) or – Stainless steel (Code **4G0**) • Type label with ATEX marking	EC type-examination by notified body

The table below shows where which version of the Bianca can be used. The operator of the installation is responsible for the definition of the group and the category of equipment, the atmosphere outside the valve and the kind of fluid and its condition inside the valve.

Application of Bianca versions according to ATEX - Group II
Equipment group II - not for Mining

Atmosphere inside the valve				Atmosphere around the valve outside: non explosive atmosphere outside	Atmosphere around the valve outside: explosive atmosphere max. zone 1/21, gas and dust outside
non explosive atmosphere inside	Liquid with low conductivity and inflammable liquids		no zone	**Standard version without ATEX conformity**	**Ex II 2G(i)/2GD(o) c IIC X Code 106**
non explosive atmosphere inside	non inflammable dusts		no zone	**Standard version without ATEX conformity**	**Ex II 2G(i)/2GD(o) c IIC X Code 106**
non explosive atmosphere inside	Gases; as well inflammable but non explosive mixtures		no zone	**Standard version without ATEX conformity**	**Ex II 2G(i)/2GD(o) c IIC X Code 106**
explosive atmosphere inside	Gas	Dry and particle free gases respectively gas mixtures	Zone 1 or 2 (not zone 0)	**Ex II 2G(i)/2GD(o) c IIC X Code 106**	**Ex II 2G(i)/2GD(o) c IIC X Code 106**
explosive atmosphere inside	Gas	Dry and particle free gases respectively gas mixtures	Zone 0 (as well applicable for Zone 1 or 2)	**Ex II 1G(i)/2GD(o) c IIC X Code 107**	**Ex II 1G(i)/2GD(o) c IIC X Code 107**
explosive atmosphere inside	Gas	Drops (vaporous and mist), vapours of inflammable liquids	Zone 0, 1 or 2	**Ex II 1GD(i)/2GD(o) c IIC X Code 108**	**Ex II 1GD(i)/2GD(o) c IIC X Code 108**
explosive atmosphere inside	Dust		Zone 20, 21 or 22	**Ex II 1GD(i)/2GD(o) c IIC X Code 108**	**Ex II 1GD(i)/2GD(o) c IIC X Code 108**



Example how to order:
B1 0150.33-2BE.**4GA**.**TSA**-**108**

Description of keycode see
BIANCA documentation page 5

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Special versions of the Bianca valves may be used in explosive atmospheres when the following rules are observed.

1. **Concerning safety regulations**
   a. Valves can only be used when the materials according to the respective working conditions are resistant against mechanical and/or chemical influence respectively corrosion, so that the explosion protection is remaining.
   b. All metallic parts – as well those add by the operator of the installation – must be electrically connected to each other and put to ground.
   c. Accessories of the valve must have at least the same explosion protection requirement as those mentioned on the label of the valve, according to the ATEX 94/9/EC.
   d. The operator of the installation is responsible to assure that the allowed temperatures according to:
      i. the conveyed fluid and the zone classification in the inner hazardous atmosphere as well as
      ii. the substances appearing at the external hazardous atmosphere are not exceeded.
   e. For valves with the marking 2G(i) – special code 106 – or 1G(i) – special code 107–
      i. The operator of the installation must assure that the conveyed hazardous gaseous atmosphere is free of particles (means dry and dust free).

2. **Important notice concerning installation**
   a. By use in explosive location, the earthing terminal of the valve must be connected to the ground. The volume resistance must be tested and must be < 10^6 Ohm.
   b. The volume resistance must be tested regularly by the operator of the installation, at least once per year.
   c. Before removing valves from piping systems conveying inflammable or explosive fluids, the piping system must be rinsed or made inert, so that no inflammable or explosive gases remain at the work place.
   d. The operator of the installation is responsible to assure that the allowed temperatures according to:
      a. the conveyed fluid and the location classification in inner explosive atmosphere
      b. the substances appearing at the external explosive atmosphere are observed.

3. **Important notice concerning maintenance**
   a. The volume resistance must be tested frequently by the operator of the installation, at least once per year (< 10^6 Ohm).

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