


(1) Statement of Conformity

- (2) Equipment and protective systems intended for use in potentially explosive atmospheres, **Directive 2014/34/EU**



- (3) **Statement of Conformity Number:** TÜV CY 23 ATEX 0206924 X Issue 01
- (4) for the equipment: Pressurized cabinets type: QPST***/**; QPSTD***/**
- (5) of the manufacturer: **Quasar Service S.r.l.**
- (6) Address: Piazza Pontida, 28, 24122 Bergamo (BG), Italy
- Order number: 0206924
- Date of issue: 2025-02-27

- (7) This equipment or protective system and any acceptable variation thereto are specified in the schedule to this statement of conformity and the documents therein referred to.
- (8) TÜV CYPRUS Ltd certifies that this equipment or protective system has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of equipment and protective systems intended for use in potentially explosive atmospheres given in Annex II to the Directive. The examination and test results are recorded in the confidential report No. 25 0206924.
- (9) Compliance with the Essential Health and Safety Requirements has been assured by compliance with:
- | | | |
|----------------------------|-------------------------|---------------------------------|
| EN IEC 60079-0:2018 | EN 60079-2:2014 | EN 60079-2:2014/AC:2015 |
| EN 60079-11:2012 | EN 60079-25:2010 | EN 60079-25:2010/AC:2013 |
- (10) If the sign "X" is placed after the certificate number, it indicates that the equipment or protective system is subject to special conditions for safe use specified in the schedule to this certificate.
- (11) This statement of conformity relates only to the design, examination and tests of the specified equipment in accordance to the Directive 2014/34/EU. Further requirements of the Directive apply to the manufacturing process and supply of this equipment. These are not covered by this certificate.
- (12) The marking of the equipment or protective system must include the following:

 II 3(1 or 2)G Ex ia pxb [ia Ga or ib Gb] IIB or IIB+H₂ or IIC T6...T3 Gc or II 3(1 or 2)G Ex pxb [ia Ga or ib Gb] IIB or IIB+H₂ or IIC T6...T3 Gc
 II 3(1 or 2)D Ex ia pxb [ia Da or ib Db] IIIA or IIIB or IIIC T85°C...200°C Dc or
 II 3(1 or 2)D Ex pxb [ia Da or ib Db] IIIA or IIIB or IIIC T85°C...200°C Dc

II 3(1 or 2)G Ex ia pzc [ia Ga or ib Gb] IIB or IIB+H₂ or IIC T6...T3 Gc or II 3(1 or 2)G Ex pzc [ia Ga or ib Gb] IIB or IIB+H₂ or IIC T6...T3 Gc
 II 3(1 or 2)D Ex ia pzc [ia Da or ib Db] IIIA or IIIB or IIIC T85°C...200°C Dc or
 II 3(1 or 2)D Ex pzc [ia Da or ib Db] IIIA or IIIB or IIIC T85°C...200°C Dc

TÜV CYPRUS Ltd (TUV NORD Group),

The head of competent body,

D. Demosthenous



TÜV CYPRUS (TÜV NORD) Ltd,
 2 Papaflessa Str., 2235 Latsia, Nicosia - P.O.Box: 20732, 1663 Nicosia, Cyprus
 Tel:+357 22 44 28 40 Fax:+35722 44 28 50 email: info@tuvcyprus.com.cy
www.tuv-nord.com/cy

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(13) SCHEDULE

(14) Statement of Conformity No. TÜV CY 23 ATEX 0206924 X Issue 01

(15) Description of equipment

The pressurized cabinets type QPST^{*/**} and QPSTD^{*/**} are designed in type of protection pressurised enclosure, with level of protection “pxb” or “pzc”, EPL Gc and Dc. Cabinets type QPST^{*/**} are intended for use in places with an explosive gas atmosphere, while cabinets type QPSTD^{*/**} are intended for use in places with an explosive dust atmosphere.

The pressurised cabinet consists of a metallic enclosure, which is the main volume and can contain electrical and non-electrical equipment, it is made of steel panels, equipped with one or more doors, and with optional windows. A pressurization system is used to control and verify the minimum internal overpressure, to perform the purging of the enclosure, to manage the pressurization by leakage compensation and to energize / switch off the equipment and devices inside the cabinet. The cabinet can be equipped with an electro-mechanical pressurization system, which is composed of a flameproof enclosure with separately ATEX certified associated apparatuses and intrinsically safe pressure switches located in hazardous area. The cabinet can be equipped, as an alternative, with a separately ATEX certified pressurization system from a third-party manufacturer.

The allowed protective gas is instrumental compressed air or inert gas, as specified in the marking plate. The maximum internal free volume is from 0.07 m³ to 10 m³. The degree of enclosure protection according to EN 60529 is IP4X minimum for level of protection “pxb” and IP3X minimum for level of protection “pzc” (declared by the manufacturer).

The pressurised cabinet with level of protection “pxb” contains an internal source of release of flammable substance.

The incorporation of explosion protected electrical and non-electrical equipment and apparatus, with their own certificate, is allowed according to the manufacturer documents.

The enclosure can be fitted with ATEX certified air conditioner(s) and also for gas analyser.

The current issue 01 includes the following modification:

- Formal update of marking including intrinsic safety barrier.
- Change in product code.
- For the cabinet with limited internal release of a gas or liquid: addition of leakage compensation.

Type code identification

This statement of conformity covers the following pressurized cabinets: QPST^{*/**} and QPSTD^{*/**}. The asterisks in this document are used in place of one or more optional character(s) concerning additional information about the pressurized cabinet as specified in the following table:

QPST	***	*	*	QPST: external gas explosive atmosphere
QPSTD				QPSTD: external dust explosive atmosphere
				Volume (cubic meters multiplied by 100) Range: from 7 to 1000
				A = Quasar pressurization system B = Pepperl+Fuchs pressurization system C = Stahl pressurization system D = Bartec pressurization system E = Expo pressurization system F = Gonnhaimer pressurization system
				X = internal dilution Y = with compound-filled cable entries XY = both options

Ratings:

Maximum rated voltage	11 000 V
Maximum internally generated voltage	24 kV r.m.s.
Maximum controlled voltage	11 kV r.m.s. – 1.5 kV d.c.
Maximum rated current	10 000 A
Maximum controlled current	4 000 A
Maximum controlled power	10 000 kW - kVA
Maximum dissipated power	5 000 W
Frequency	Up to 62 Hz
Protective gas	Air or Inert gas (density equal to air ±10%)

Parameters related to safety:

Supply pressure of protective gas	1 to 8 bar
Maximum internal overpressure	13 mbar
Minimum overpressure in service	
Level of protection "pxb"	0.5 mbar
Level of protection "pzc"	0.25 mbar
Maximum leakage rate	3 x internal volume (in m ³ /h)

Allowable ambient temperature range:

T.amb.: -40°C ≤ Ta ≤ +50°C for T6/85°C or T5/100°C
 -40°C ≤ Ta ≤ +60°C for T4/135°C or T3/200°C

Warning labels (when applicable, according to manufacturer documents and use and maintenance manual):

"Warning - Pressurized enclosure".

"Warning - Do not open when an explosive atmosphere may be present".

"Warning - Power shall not be restored after the enclosure has been opened until combustible dust accumulations within the enclosure have been removed".

“Warning - Do not open any doors or covers for 30 minutes after removing power”.

“Warning - This enclosure contains inert gas and may be an asphyxiation hazard”.

“Warning - This enclosure contains inert gas and may be an asphyxiation hazard. This enclosure also contains a flammable substance that may be within the flammable limits when exposed to air”.

“Warning - Batteries are located inside this enclosure. Do not open when an explosive atmosphere is present”.

“Warning - This pressurized enclosure contains a battery which remains connected after the external power has been isolated. Consideration should be given to the removal of the battery if the enclosure is to remain unprotected by Ex p for a significant time”.

“Warning - Batteries in this pressurized enclosure require routine maintenance. See instructions”.

(16) Test documents are listed in the test report No. 25 0206924.

Routine tests:

The manufacturer must perform the following required routing tests:

- The performance of the safety devices provided with the pressurised enclosure shall be verified.
- The leakage of protection gas shall be tested as specified in clause 16.3 of EN 60079-2:2015.
- In case of presence of internal source of release, the containment system shall be tested as specified in clause 16.8 of EN 60079-2:2015.

(17) Special conditions for safe use

- The user must follow the safety instructions and take all necessary precautions before bypassing the pressurisation alarm system.
- User shall connect, on intrinsic safety terminal strip, only equipment which comply with the electrical parameters of the associated intrinsically safe apparatus shown in the safety instructions document.
- The user shall comply with the special conditions of use related to separately certified equipment, incorporated in the pressurised cabinet according to the manufacturer documents.

(18) Essential Health and Safety Requirements

This statement of conformity covers only the Essential Health and Safety Requirements related to the Directive 2014/34/EU. No additional ones.