

[2] EQUIPMENT OR PROTECTIVE SYSTEM INTENDED FOR USE IN POTENTIALLY EXPLOSIVE ATMOSPHERES DIRECTIVE 94/9/EC

[3] EC-Type Examination Certificate Number: Presafe 14 ATEX 5472X Issue 1

[4] Equipment or Protective System: VALVE ACTUATOR

[5] Applicant – Manufacturer: ELTORQUE AS

[6] Address: Lyng Industrial Park, Verkstedvegen 4  
7125 Vanvikan, Norway

[7] This equipment or protective system and any acceptable variation thereto is specified in the schedule to this certificate and the documents therein referred to.

[8] DNV Nemko Presafe AS, notified body number 2460 in accordance with Article 9 of Council Directive 94/9/EC of 23 March 1994, 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 confidential reports listed in section 16.

[9] Compliance with the Essential Health and Safety Requirements has been assured by compliance with: EN 60079-0:2012 (IEC 60079-0 ed.6), EN 60079-1:2007 (IEC 60079-1 ed.6), EN 60079-7:2007 (IEC 60079-7 ed.4) EN 13463-1:2009, EN 13463-5:2011

[10] If the sign “X” is placed after the certificate number, it indicates that the equipment or protective system is subject to specific conditions of use specified in the schedule to this certificate.

[11] This EC-TYPE EXAMINATION CERTIFICATE relates only to the design and construction of the specified equipment or protected system. If applicable, further requirements of this Directive apply to the manufacturer and supply of this equipment or protective system.

[12] The marking of the equipment or protective system shall include the following:

 II 2 G Ex d e IIB T4 Gb, T<sub>amb</sub>: -25°C to +70°C  
II 2 G Ex c IIB T4 Gb

Asle Kaastad  
For DNV Nemko Presafe AS  
Information on electronic signature [www.presafe.com](http://www.presafe.com)



Date of issue: 2016-01-29

[13] **Schedule**

[14] **EC-TYPE EXAMINATION CERTIFICATE No.:** Presafe 14 ATEX 5472X Issue 1

[15] **Description of Equipment or Protective System**

Valve actuator model QT250 without external gear and QT800 with an external gear. Electric step motor, internal gear, electronics and communication interfaces incorporated in a flameproof enclosure made of aluminium and terminals located in an increased safety compartment with threaded M20x1.5 holes for certified cable glands or blanking elements. The flameproof enclosure has two covers that are secured with ten special fasteners each. Connection between the flameproof enclosure and increased safety terminals is through a certified bushing. The actuator shall be installed to the valve with a flange according to ISO standard and instructions. There are three variants to each model and differ regarding to interface used, see below.

**Type Designation:** QTXXX Ex d <interface>  
**Applicable models:** QT250 Ex d <interface>, QT800 Ex d <interface>  
**Interface variants:** CANopen, DIGITAL or ANALOG.

**Rated values:**  
Voltage 110 - 240 [V] AC 50/60 [Hz]  
Power 130 [W]

**Ambient temperature range:**  
-25°C to +70°C

**Marking location:**  
Marking plate located on one side of the equipment.

**Warning markings:**  
“WARNING – DO NOT OPEN WHEN A HAZARDOUS ATMOSPHERE IS PRESENT”  
“WARNING – POTENTIAL ELECTROSTATIC CHARGING HAZARD – SEE INSTRUCTIONS”

**Special conditions of use:**  
To maintain the Ex protection the Instruction files which accompanies the product must be considered.

**Certified Ex Components:**  
BARTEC Line bushing type 07-9108-E102G and 07-9101-E142GxTI EPS 13 ATEX 1 619 U revision 0  
WAGO Screwless terminals type 264-120, 264-220 and 264-727/999-950 PTB 98 ATEX 3129 U up to and including 3<sup>rd</sup> Supplement

[16] **Report No.:**  
D000182 issue 01

## [17] Specific Conditions of Use

1. To avoid electrostatic charging hazard, use only a damp cloth when cleaning the protective cover and to avoid contact charging due to manual operation use appropriate antistatic measures e.g. by grounding operators.
2. Mechanical properties for screws used for both covers shall be at minimum of A4-80.

## [18] Essential Health and Safety Requirements

Contact charging of conductive non-earthed plastic cover is prevented by X-marking with guidance how to minimize this risk by assessment of safety measures according to clause 7.4.2 e) in EN 60079-0.

## [19] Descriptive Documents

Table of descriptive documents.

Title	Number	Rev.	Date	Page/-s
User Manual	EX150.0005	5		31
Ex Instructions Manual	EX150.0004	7		11
General marking plate Exde QT250 QT800	EX146.0011	2	2015-03-09	1
Marking plate matrix	EX146.0015	2	2015-08-05	1
Warning Marking Ex d e	EX146.0016	0	2014-11-07	1
Marking plate connection CanOpen	EX146.0014_00	0	2014-09-26	1
Marking plate connection Digital	EX146.0017_00	0	2015-02-16	1
Marking plate connection Analog	EX146.0018_00	0	2015-07-28	1
EXD250 with CAN Open interface	EXD250.125.1	2	2014-12-11	6
Main assy EXD QT 250,800	EXD250.800	1	2013-03-01	4
EXD 800 with CAN Open interface	EXD800.125	3	2014-12-11	4
EXD250 CAN Open	EXD250.025.1	0	2014-10-02	1
Main assy. QT250EXD DIGI	EXD250.115.1	0	2015-06-12	6
Main Assembly EXD QT250.800 DIGI	EXD250.815	0	2015-07-17	4
Main Assembly QT800 EXD DIGI	EXD800.115.1	0	2015-07-17	4
EXD250 Digital	EXD250.015.1	0	2015-06-12	1
EXD250 Analog	EXD250.135.1	0	2015-06-12	6
Main Assembly EXD QT250.800 Analog	EXD250.835	0	2015-07-17	4
Main Assembly QT800 EXD Analog	EXD800.135.1	0	2015-07-17	4
EXD250Analog	EXD250.035.1	0	2015-06-12	1
Assy gear motor QT 250 EXD	EXD250.201	0	2013-03-01	1
Assy gear motor QT 250,800	EXD250.209	0	2013-03-01	1
Assy Bottom QT 250 EXD	EXD250.202	0	2013-03-01	1
Assy Bottom QT250,800 EXD	EXD250.207	0	2013-03-01	1
Assy Top cover QT 250,800 EXD	EXD250.203	0	2013-03-06	1
Assy connector house	EXD250.206	0	2013-03-06	1
Assy Main shaft QT 250 EXD	EXD250.205	1	2014-10-10	1
Protective cover Ø115	EX110.0003	0	2013-06-13	2
Wheel A1 Ø117	EX110.0004	0	2012-06-12	2
Capsule EXD_QT_250	EX110.0043	4	2014-09-22	5
Bottom_EXD_QT_250	EX110.0044	5	2014-07-09	5
Bottom_EXD_QT_250,800	EX110.0068	5	2014-07-09	5
Top_Cover_EXD_QT_250,800	EX110.0045	5	2014-03-06	4
Connector house	EX110.0046	0	2013-05-16	1
Cover Connector house	EX110.0047	0	2013-05-16	1
Main shaft square 17 EXD	EX110.0048	1	2013-11-21	3
Adapter_Shaft_EXD	EX110.0049	3	2015-01-20	2

Position_ind_ext_M6_EXD	EX110.0050	1	2013-11-22	1
Main_shaft_square_17_QT 800EXD	EX110.0051	2	2014-01-08	3
Position_ind_ext_M6_QT800EXD	EX110.0052	0	2013-04-08	1
Line-bushing and connectors	EX144.0031	3	2015-11-04	1
Assy encoder	800.004	0	2013-03-01	1
14 Line-bushing with connectors and thermal fuse	EX144.0037	2	2015-11-04	1
Gear QT 800	EX110.0053	2	2014-10-10	1
Lay_plate_EXD	EX110.0066	0	2014-01-10	1
Bottom_B1 QT_800 EXD	EX110.0067	0	2014-05-16	1
Rim gear M2.5Z60	45022	4	2011-03-30	1
Sun gear M2, 5Z24	45014	2	2005-10-19	1
Main shaft 27x27 QT800	45016	4	2010-07-02	1
Gear M2, 5Z18b15S2	45060	0	2014-10-17	1

## [20] Certificate History

Table of Certificate History

Issue	Description	Report no.	Issue
0	Original issue	D0000182	00
1	Additional variants with Digital- and Analog protocol.	D0000182	01

**END OF CERTIFICATE**