

EU-TYPE EXAMINATION CERTIFICATE

Equipment or Protective System Intended for use in Potentially Explosive Atmospheres Directive
2014/34/EU

1. **EU-Type Examination Certificate Number:** ITS13ATEX17760X **Issue 03**
2. **Product:** Conquest Monitor Style 3678
Conquest Nozzle Actuator Style 2197
For Nozzles: 2197, 2198, 2199, 5097, 5098, 5099
3. **Manufacturer:** Akron Brass
4. **Address:** 343 Venture Blvd, Wooster, Ohio, 44691, USA
5. This product and any acceptable variation thereto is specified in the schedule to this certificate and the documents therein referred to.
6. Intertek Testing and Certification Limited, Notified Body number 0359 in accordance with Article 17 of Directive 2014/34/EU of the European Parliament and of the Council dated 26 February 2014, certifies that the product has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of products intended for use in potentially explosive atmospheres given in Annex II of the Directive.
7. Compliance with the Essential Health and Safety Requirements has been assured by compliance with EN 60079-0:2012, EN 60079-1:2007 and EN 60079-31:2009 except in respect of those requirements referred to within item 14 of the Schedule.
8. If the sign "X" is placed after the certificate number, it indicates that the product is subject to the special conditions of use specified in the Schedule to this certificate.
9. This EU-Type Examination Certificate relates only to the design and construction of the specified product. Further requirements of the Directive apply to the manufacturing process and supply of this product. These are not covered by this certificate.
10. The marking of the product shall include the following:

II 2 G Ex d IIC T6 Gb

II 2 D Ex tb IIIC T85°C Db



(-20°C ≤ Ta ≤ 60°C)

In accordance with EC NOTICE TO STAKEHOLDERS WITHDRAWAL OF THE UNITED KINGDOM AND EU RULES IN THE FIELD OF INDUSTRIAL PRODUCTS dated 13 March 2020.

This issued certificate - Certificate No: ITS13ATEX17760X

and supporting Technical Construction File underwent a legal transfer of new ownership by signed agreement between the named applicant on this certificate and the 3rd party bodies involved in the transfer from NB0359 to NB2575 on 16 December 2020

Name: Fabrizio Massei
Position: ATEX Certification Officer
Signature:
Date: 16 December 2020

Certification Officer:  M Newman **Date:** 14th February 2019

SCHEDULE:

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11. Description of Equipment or Protective System

Akron Brass Conquest Monitor Style 3678
Conquest Nozzle Actuator Style 2197
For Nozzles: 2197, 2198, 2199, 5097, 5098 and 5099

The Conquest Monitor Style 3678 consists of two identical cylindrical flameproof motor housings constructed out of brass, with the following flame paths: six threaded flame paths and a single rotating cylindrical flamepath. The threaded joints are as follows:

One between the lid and the body to allow access to connection facilities.
One between body and drive output.
4 x 1/2" NPT threaded cable entries.

The dimensions of the flameproof unit are approximately 134mm at its smallest diameter and 178mm at its largest and 354mm in length (not including shaft). See drawing number D43480, sheet 3 of 7 for the overall set up of the motor unit.

The pattern actuator consists of one cylindrical flameproof motor housing constructed out of brass, with the following flame paths: 4 threaded and a single rotating cylindrical flamepath. The threaded joints are as follows:

One between the lid and the body to allow access to the unit and its connections.
One between the body and the drive output.
One threaded 1/2" NPT cable entry.
One threaded between the bearing retainer and internal surface of the pattern actuator machined housing

The dimensions of the flameproof unit are approximately 105mm at its smallest diameter and 110mm at its largest diameter, with an overall length of 280mm. See drawing number D46726 sheet 1 of 3 for overall set up of the pattern actuator unit.

Both internal and external earthing is provided.

12. Report Number

Intertek Report: 103980098CHE-002 Dated: 10th February 2020.

SCHEDULE:

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13. Special Conditions of Certification

(a). Special Conditions of Use

- Only suitably approved Ex d IIC Gb/ Ex tb IIIC Db cable glands and blanking elements suitable for the ambient temperature range shall be used.
- No modifications must be made to the flamepaths of the unit without consultation of the manufacture's drawings.
- Potential electrostatic discharge hazard, clean only with a damp cloth.
- Temperature at branching point could exceed 91.1°C. Use suitably rated cable
- The equipment is subject to a duty cycle limit of which the motors can only be run constantly for no more than 28 minutes, after which the equipment must be allowed 4 hours to cool to ambient temperature before it can be used again.

(b). Conditions of Manufacture -

- None

14. Essential Health and Safety Requirements (EHSRs)

The relevant Essential Health and Safety Requirements (EHSRs) have been identified and assessed in Intertek Report: 101101107MAN-001 Dated: March 2014 and 103980098CHE-002 Dated: 10th February 2020.

15. Drawings and Documents

Title:	Drawing No.:	Rev. Level:	Date:
Motor Warning Tag (FM/ATEX) (one sheet)	A46977	00	4-13
*Mach: Bearing Retainer (two sheets)	B43449	04	1-19
*Mach: Input Shaft (two sheets)	B43450	05	9-19
*Mach: Output Shaft (two sheets)	B43477	05	1-19
ID Tag (one sheet)	B43794	06	6-15
*Mach: Enclosure Plug (two sheets)	B44501	05	01-19
*Mach: Enclosure Plug (two sheets)	C44502	04	1-19
*Machined Housing (two sheets)	D43451	07	1-19
*Mach: Adapter Housing (two sheets)	D43476	07	1-19
*Mach: Motor Cover (two sheets)	D44499	04	1-19
*Mach: Motor Cover (two sheets)	D44500	05	1-19
Monitor Assembly (six sheets)	D43480	09	03-16
*Pattern Actuator S/A (three sheets)	D46726	03	1-19

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ID Tag (ATEX Zone 1, 21 & 22) (one sheet)	B43479	06	7-15
*Actuator Pattern S/A ZN1 2 Tone PNT (two sheets)	21970026	03	1-19
*Phantom Pattern Actuator 2197 ZN1(one sheet)	943	03	1-19
*Conquest 4RFFLGX3.5NHZNI 120/1/60 PNT (two sheets)	36780091	09	1-19

*Note: An * is included before the title of documents that are new or revised.*

16. Details of Certificate changes Issue 1 102478855CHE-001 Dated March 2016.

- Minor drawing changes and minor technical update.

Title:	Drawing No.:	Rev. Level:	Date:
Mach: Input Shaft Pattern Actuator Zone 1) 5097, 5098 (two sheets)	B43450	03	05-15
ID Tag AC Nozzle (Zone 1 & 21) 5098	-43794	06	6-15
Mach: Enclosure Plug Pattern Actuator Zone 1 ATEX 5097, 5098 (two sheets)	B44501	04	09-15
Mach: Adapter Housing AC Conquest (Zone 1) 3678 (two sheets)	D43476	06	12-14
Mach: Motor Cover 3678 (two sheets)	D44500	04	3-14
ID Tag (ATEX Zone 1, & 21) 3678	-43479	06	7-15

Details of Certificate changes Issue 2 102653854CHE-001 Dated August 2016.

Minor drawing changes and non-technical updates

Title:	Drawing No.:	Rev. Level:	Date:
Monitor Assembly (six sheets)	D43480	08 to 09	03-16

Details of Certificate changes Issue 3 (This issue)

Minor drawing changes to the scheduled drawings for the equipment. The following drawings have been updated as part of this variation:

Title:	Drawing No.:	Rev. Level:	Date:
Mach: Bearing Retainer (two sheets)	B43449	03 to 04	04-08 to 1-19
Mach: Input Shaft (two sheets)	B43450	03 to 04	05-15 to 1-19
Mach: Output Shaft (two sheets)	B43477	04 to 05	09-13 to 1-19
Mach: Enclosure Plug (two sheets)	B44501	04 to 05	09-15 to 1-19
Mach: Enclosure Plug (two sheets)	C44502	03 to 04	1-14 to 1-19
Machined Housing (two sheets)	D43451	06 to 07	09-13 to 1-19
Mach: Adapter Housing (two sheets)	D43476	06 to 07	12-14 to 1-19
Mach: Motor Cover (two sheets)	D44499	03 to 04	1-14 to 1-19
Mach: Motor Cover (two sheets)	D44500	04 to 05	3-14 to 1-19
Pattern Actuator S/A (three sheets)	D46726	02 to 03	1-14 to 1-19
Actuator Pattern S/A ZN1 2 Tone PNT (two sheets)	21970026	02 to 03	03/05/2014 to 1-19
Phantom Pattern Actuator 2197 ZN1(one sheet)	943	02 to 03	03/05/2014 to 1-19
Conquest 4RFFLGX3.5NHZNI 120/1/60 PNT (two sheets)	36780091	08 to 09	03/05/2014 to 1-19
Mach: Input Shaft (two sheets)	B43450	04 to 05	09-19