



1. **TYPE EXAMINATION CERTIFICATE**
2. **Equipment or Protective System Intended for use in Potentially Explosive Atmospheres**
3. Type Examination Certificate Number: **ITS09ATEX16882X**
4. Equipment or Protective System: **Servo Motors (Storm and Conquest)**
5. Manufacturer: **Akron Brass Company**
6. Address: **343 Venture Blvd, Wooster, Ohio 44691 USA**
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. Intertek Testing and Certification Limited 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 94/9/EC of 23 March 1994

The examination and test results are recorded in confidential Report: 09043655A1, dated April 2010.
9. Compliance with the Essential Health and Safety Requirements has been assured by compliance with standards EN 60079-15:2005 except in respect of those requirements referred to at item 16 of the Schedule.
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 Type examination certificate relates only to the design, examination and tests of the specified equipment or protective system in accordance to the directive 94/9/EC. Further requirements of the Directive apply to the manufacturing process and supply of this equipment or protective system. These are not covered by this certificate.
12. The marking of the equipment or protective system shall include the following:-

II 3 G Ex nA II T165°C (T3)

LZ12

Intertek Testing & Certification Limited
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<http://www.intertek.com>
Registered No 3272281 Registered Office: 25 Saville Row London W1X 1AA

P Moss
Certification Officer
13 April 2010

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SCHEDULE

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13. Description of Equipment or Protective System

The Storm and Conquest Monitors (water cannons) are remote controlled, water deluge systems that incorporate three servo motors. Identical motors are used to control the elevation and rotation functions of the monitor and a smaller motor is used to control the nozzle spray pattern. The nozzle delivers a water curtain which can be utilized in hazardous areas. The motors are supplied by a purged control cabinet (not part of this certification) mounted in the hazardous area. The motors used are types AKM41E (Monitor motors) and PMA12A (Nozzle motor) manufactured by Kollmorgen and are modified by Akron Brass for use in the ATEX CAT3 Zone 2 areas.

14. Report Number

Intertek Report Ref Issue 09043655A1, dated April 2010.

15. CONDITIONS OF CERTIFICATION:

a. Special Conditions for safe use

- The motors are to be mounted in areas of low risk from impact.
- The connectors shall have a covering of Loctite Superflex Blue RTV 30560 (or equivalent) around them.
- For the purposes of this certification the maximum rated speed the motors shall be operated at is to be no greater than
 1. 7225 rpm for the PMA12A motor.
 2. 2550 rpm for the AKM41E motor.

b. Conditions For Use (Routine Tests)

None

16. Essential Health and Safety Requirements (EHSR's)

The relevant EHSR's that have not been addressed by the standards listed in this certificate have been identified and assessed in Intertek Report Ref, 09043655B1 dated April 2010.

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17. DRAWINGS

Number	Issue	Date	Description
45299	00	1-10	ID TAG (ATEX) STORM MONITOR
45348	00	1-10	ID TAG (ATEX) CONQUEST MONITOR
C45372	00	2-10	POTTED MOTOR ASSEMBLY
C45371	00	2-10	POTTED MOTOR ASSEMBLY
90607	1	01/07/10	SERVO SYSTEM MOTOR CONTROLS (PAGE 3 OF 11)
30491-xxx-000	52	10/18/01	STATOR HOUSING ASSEMBLY PMA1 SERIES
FS40A00	53	12/17/03	SHAFT ASSEMBLY A1M 4 SERIES
CS12000	bk	7/20/09	ROTOR ASSEMBLY
MA31080F015	C	4/1/10	CABLE SPECIAL BUILD INSTRUCTIONS
MA31082F015	C	4/1/10	CABLE SPECIAL BUILD INSTRUCTIONS
MA31084F015	C	4/1/10	CABLE SPECIAL BUILD INSTRUCTIONS
MA31086F015	C	4/1/10	CABLE SPECIAL BUILD INSTRUCTIONS
MA31088F015	C	4/1/10	CABLE SPECIAL BUILD INSTRUCTIONS
MA31094F015	C	4/1/10	CABLE SPECIAL BUILD INSTRUCTIONS

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