



Certificate of Compliance

Certificate: 70118094

Master Contract: 238307 (LR 83213)

Project: 80011014

Date Issued: 2019-09-09

Issued To: Auma Riester GmbH & Co. KG
Aumastrasse 1
Muellheim, Baden-Württemberg, 79379
Germany

Attention: Michael Noll

The products listed below are eligible to bear the CSA Mark shown with adjacent indicators 'C' and 'US' for Canada and US or with adjacent indicator 'US' for US only or without either indicator for Canada only.

Issued by: *James Cotton*
James Cotton



PRODUCTS

CLASS - C322102 - VALVES-General purpose Actuators

CLASS - C322182 - VALVES-Actuators - Certified to US Standards

Part A:

SA##### and SAR##### Generation 1 Series Multi-turn Electrical Motor Operated Valve Actuators (SA where ##### may be 07.1, 07.5, 10.1, 14.1, 14.5, 16.1, 25.1, 30.1, 35.1, 40.1 or 48.1)(SAR where ##### may be 07.1, 07.5, 10.1, 14.1, 14.5, 16.1, 25.1 or 30.1); rated: 1-PH, 110 / 115 / 120 / 220 / 230 / 240 Vac, 60 Hz, 35 FLA max, 370 ft-lb [500 Nm] max, 216 RPM max; or rated: 3-PH, 208 / 220 / 230 / 240 / 440 / 460 / 480 / 575 / 600 Vac, 60 Hz, 82 FLA max, 23,600 ft-lb [32,000 Nm] max, 216 RPM max



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SA#### and SAR##### Generation 2 Series Multi-turn Electrical Motor Operated Valve Actuators (where #### may be 07.2, 07.6, 10.2, 14.2, 14.6 or 16.2); rated: 1-PH, 110 / 115 / 120 / 220 / 230 / 240 Vac, 60 Hz, 20 FLA max, 370 ft-lb [500 Nm] max, 216 RPM max; or rated: 3-PH, 208 / 220 / 230 / 240 / 440 / 460 / 480 / 575 / 600 Vac, 60 Hz, 32 FLA max, 740 ft-lb [1000 Nm] max, 216 RPM max

SG#### and SGR##### Series Quarter-turn Electrical Motor Operated Valve Actuators (where #### may be 05.1, 07.1, 10.1 or 12.1); rated: 1-PH, 110 / 115 / 120 / 220 / 230 / 240 Vac, 60 Hz, 4.0 FLA max, 885 ft-lb [1200 Nm] max, 180 sec (for 90°) max; or rated: 3-PH, 220 / 230 / 240 / 440 / 460 / 480 / 575 / 600 Vac, 60 Hz, 1.24 FLA max, 885 ft-lb [1200 Nm] max, 50 sec (for 90° rotation) max

SQ#### and SQR##### Series Quarter-turn Electrical Motor Operated Valve Actuators (where #### may be 05.2, 07.2, 10.2, 12.2 or 14.2); rated: 3-PH, 208 / 220 / 230 / 240 / 440 / 460 / 480 / 575 / 600 Vac, 60 Hz, 2.3 FLA max, 1770 ft-lb [2400 Nm] max, 108 sec (for 90° rotation) max

Notes:

1. The above valve actuators are evaluated as general-purpose type, short-time (S2) non-modulating or intermittent (S4) modulating duty cycle, intended for indoor or outdoor use.
2. The model code for the SA, SAR, SG, SGR, SQ and SQR series are followed by several alphanumeric suffixes, including a variable defining actuator speed and therefore the motor which must be used. For details of suffixes identification see attachments 1, 2, 3 and 4.
3. The above valve actuators are provided with either an S2 short-time duty cycle (non-modulating type with 6,000 operations or more) or an S4 intermittent duty cycle (modulating type with 20,000 operations and 200,000 repositions or more), as follows:
 - a. SA Generation 1 model series is available as S2 10, 15 or 30 minute duty
 - b. SAR Generation 1 model series is available as S4 25% or 50% duty
 - c. SA Generation 2 model series is available as S2 15 or 30 minute duty
 - d. SAR Generation 2 model series is available as S4 25% or 50% duty
 - e. SG model series is available as S2 15 minute duty
 - f. SGR model series is available as S4 25% duty
 - g. SQ model series is available as S2 15 minute
 - h. SQR model series is available as S4 25% duty
4. The above valve actuators are certified to ambient temperature of -40°C to +80°C.
5. Single phase SA and SAR actuators, with the motor capacitors mounted within the extended motor housing (i.e. motor models starting with characters AE, VE, AC or VC), are certified to ambient temperature of -40°C to +40°C. Otherwise, note 4 is applicable for single phase actuators, with the motor capacitors mounted within the terminal compartment (i.e. motor models starting with characters AF, VF, AG or VG).
6. The above valve actuators are rated enclosure Type 2, 3, 3R, 4, 4X, 5, 6, 6P.
7. All motors are either Class F or Class H insulation.

Part B:

The SA, SAR, SG, SGR, SQ and SQR series valve actuators may be provided with any one of the following control packages.



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- Integral Motor Control Package (or IMC)
- Matic Control Package (or AM)
- Integral Control Package (or IC)
- Triple Play Matic Package (or BCTP)

Notes:

1. The control packages are rated for a maximum ambient temperature of +70°C.
2. The control package enclosures are rated enclosure. Type 2, 3, 3R, 4, 4X, 5, 6, 6P.
3. The control packages could be mounted to a wall bracket remote from the rest of the actuator using the same terminal configurations.

APPLICABLE REQUIREMENTS

CAN/CSA C22.2 No. 139-13	Electrically Operated Valves
ANSI/UL 429 (Seventh Edition)	Electrically Operated Valves
CAN/CSA C22.2 No. 94.1-15	Enclosures for Electrical Equipment, Non-Environmental Considerations
ANSI/UL 50 (Thirteenth Edition)	Enclosures for Electrical Equipment, Non-Environmental Considerations
CAN/CSA C22.2 No. 94.2-15	Enclosures for Electrical Equipment, Environmental Considerations
ANSI/UL 50E (Second Edition)	Enclosures for Electrical Equipment, Environmental Considerations

MARKINGS

The manufacturer is required to apply the following markings:

- Products shall be marked with the markings specified by the particular product standard.
- Products certified for Canada shall have all Caution and Warning markings in both English and French.

Additional bilingual markings not covered by the product standard(s) may be required by the Authorities Having Jurisdiction. It is the responsibility of the manufacturer to provide and apply these additional markings, where applicable, in accordance with the requirements of those authorities.

The products listed are eligible to bear the CSA Mark shown with adjacent indicators ‘C’ and ‘US’ for Canada and US (indicating that products have been manufactured to the requirements of both Canadian and U.S. Standards) or with adjacent indicator ‘US’ for US only or without either indicator for Canada only.

Marking Method: The valve actuators are marked with laser engraved, riveted on metal (aluminium or stainless steel) nameplates:



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1. Submitter's name, or the master contract number "238307" or the legacy report number "LR 83213" marked adjacent to the CSA mark in lieu of submitter name;
2. Model designation or equivalent;
3. Voltage, frequency in hertz, number of phases, input in full load amperes or watts, the duty cycle (in terms of ON period and OFF period);
4. Max Rated Torque
5. The month and year of manufacture, at least shall be marked on the actuator in a location accessible without the use of tools. Date coding, serial numbers, or equivalent means may be used;
6. CSA "C-US" Monogram.
7. The actuator is marked with the following or equivalent adjacent to the wiring terminals: "USE SUPPLY WIRES SUITABLE FOR AT LEAST 90°C" and "EMPLOYER DES FILS D'ALIMENTATION QUI CONVIENNENT POUR AU MOINS 90°C".
8. Actuators may be marked with a type rating of 2, 3, 3R, 4, 4X, 5, 6, 6P. Additionally, any of the following supplementary markings may be used: "Raintight", "Watertight" or "Corrosion Resistant"
9. If the actuator is produced at more than one factory, then each actuator shall have a distinctive marking to identify the product of a particular factory.
10. The ambient temperature rating 80C on the valves 70C on the control packages, may be either marked on the actuator or provided on a tag attached to the actuator, on the smallest carton in which the actuator is packaged, or included in the installation instructions.
11. The ground screw is green or there is a mark adjacent to the terminal such as "G", "GR", "GND", "Ground", "Grounding", or the like clearly identifying the terminal as the ground connection.



Supplement to Certificate of Compliance

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The products listed, including the latest revision described below, are eligible to be marked in accordance with the referenced Certificate.

Product Certification History

Project	Date	Description
80011014	2019-09-09	Update to report 70118094 with new electrical ratings (i.e. adding 3-PH, 208 Vac, 60 Hz ratings) for the SA and SAR and the SQ and SQR model series. Alternate components assessed. Product model code and ratings updated for clarification. Report attachments revised / reorganized.
70154306	2018-01-31	Update report 70118094 to include alternate paint system D.
70159268	2017-11-07	Update of report 70118094 to amend 'Att D Test Results 70012460' and correct the alternate permissible paint system C to 'Sherwin Williams Powdura (50 microns - base coat) and Sherwin Williams Powdura (120 microns - top coat)'
70118094	2017-04-18	Certification of SA, SG & SQ series actuators by AUMA Actuators. File transfer from original certification created under MC#158228, certificate 1328676.