



## *Confirmation of Product Type Approval*

Please refer to the "Service Restrictions" shown below to determine if Unit Certification is required for this product. This certificate reflects the information on the product in the ABS Records as of the date and time the certificate is printed.

Pursuant to the Rules of the American Bureau of Shipping (ABS), the manufacturer of the below listed product held a valid Manufacturing Assessment (MA) with expiration date of 26/APR/2020. The continued validity of the Manufacturing Assessment is dependent on completion of satisfactory audits as required by the ABS Rules.

And; a Product Design Assessment (PDA) valid until 22/APR/2020 subject to continued compliance with the Rules or standards used in the evaluation of the product.

The above entitle the product to be called Product Type Approved.

The Product Design Assessment is valid for products intended for use on ABS classed vessels, MODUs or facilities which are in existence or under contract for construction on the date of the ABS Rules used to evaluate the Product.

ABS makes no representations regarding Type Approval of the Product for use on vessels, MODUs or facilities built after the date of the ABS Rules used for this evaluation.

Due to wide variety of specifications used in the products ABS has evaluated for Type Approval, it is part of our contract that; whether the standard is an ABS Rule or a non-ABS Rule, the Client has full responsibility for continued compliance with the standard.

**Product Name:** Actuator, Electric for Valves  
**Model Name(s):** Series 92 (S92, A92, B92, C92)

**Presented to:**  
ASAHI AMERICA INC.  
655 ANDOVER STREET  
United States

<b>Intended Service:</b>	Offshore and Marine Applications - Automating Valves for On/Off Modulating Service.
<b>Description:</b>	Electric Actuators, Motor Type -Reversing, ¼ turn Single Phase manufactured with aluminum Alloy 380.
<b>Tier:</b>	3
<b>Ratings:</b>	Size: 1½" to 8" (40mm - 200mm) Voltages: 230VAC, 120VAC, 115VAC, 12VDC, 24VDC, 12VAC, 24VAC; 50/60 Hz Operating Temperature Range: 32°F to 150°F Torque: 400 to 2000 in-lb; Enclosure Rating: Type 4X or Type 4x/7 Models S92, A92, B92 & C92 Suitable for Hazardous Area Class 1, Group C and D. See attached "pdf" data sheet for details.
<b>Service Restrictions:</b>	Unit Certification is not required for this product. If the manufacturer or purchaser request an ABS Certificate for compliance with a specification or standard, the specification or standard, including inspection standards and tolerances, must be clearly defined. i) ATEX certified equipment is not to be installed in hazardous area on U.S. vessels unless it can be prove to have been tested to the applicable IEC60079 series standards by an independent laboratory accepted by the U.S. Coast Guard, USCG notice 01-12 (February 7, 2012). ii) If the subject actuator will be used for automatic remote control, or will be associated with propulsion machinery, then as evidence demonstrating that the actuators have been satisfactorily tested to establish their suitability for intended service is to be provided per Steel Vessel Rules 4-9-8/15.7.

<b>Comments:</b>	The Manufacturer has provided a declaration about the control of, or the lack of Asbestos in this product. i) All electrical equipment intended for installation in hazardous areas are to be certified safe type based on the class of the hazardous area at its locations of installation. Certificates in this regard are to be presented to ABS Surveyor for verification on a case by case basis.
<b>Notes / Documentation:</b>	Drawing No. 7401920-CSW Rev. A - Series 92 Actuator Base Casting Solidworks Drawing No. 7401940 - CSW Rev. B - Series 92 Cover Casting (Solidworks) Drawing No. 7402201 Rev. A - Machining For UL1203 Label Drawing No. BASMACHA Rev. C - Series 92 Base, Regulator (Asahi Machining) New Motor Specification CMO-2414 Model RS-555H-2772RB Drawing No. CMO-2414 Rev. G - D.C. Motor Certificate of Inspection No. L204250L Slotted Indented Hex Head Machine Screws. Cutsheet Series 92 Electric Actuator, Rev. E 09-08 Certificate of Compliance No. 20130808-E356257 SIRA Certification No. Sira 07ATEX1268 Cutsheet Series 92 Electric Actuator, Rev. G 6-14 Cutsheet Series 92 115 VAC & 220 V Explosion Proof Electric Actuator, Rev. A 4-15 Cutsheet Series 92 12VDC & 24 VDC Explosion Proof Electric Actuator, Rev. A 4-15
<b>Term of Validity:</b>	This Product Design Assessment (PDA) Certificate 15-VC1357307-PDA, dated 23/Apr/2015 remains valid until 22/Apr/2020 or until the Rules or specifications used in the assessment are revised (whichever occurs first). This PDA is intended for a product to be installed on an ABS classed vessel, MODU or facility which is in existence or under contract for construction on the date of the ABS Rules or specifications used to evaluate the Product. Use of the Product on an ABS classed vessel, MODU or facility which is contracted after the validity date of the ABS Rules and specifications used to evaluate the Product, will require re-evaluation of the PDA. Use of the Product for non ABS classed vessels, MODUs or facilities is to be to an agreement between the manufacturer and intended client.
<b>ABS Rules:</b>	The Rules for Conditions of Classification, Part 1 2015 Steel Vessels Rules 1-1-4/7.7, 1-1-A3, 1-1-A4, which covers the following: Steel Vessel 4-8-3/1.7, 1.11.1, 13.1, 13.3.2; The Rules for Conditions of Classification, Part 1 – 2015 Offshore Units and Structures 1-1-4/9.7, 1-1-A2, 1-1-A3, which covers the following: Mobile Offshore Drilling Units 4-3-1/11, 15, 4-3-3/9.1.1, 9.3.1.
<b>National Standards:</b>	UL 1203 Edition 5:2013; UL-508 Edition 17-2007
<b>International Standards:</b>	
<b>Government Authority:</b>	
<b>EUMED:</b>	
<b>Others:</b>	

Model Certificate	Model Certificate No	Issue Date	Expiry Date
PDA	15-VC1357307-PDA	28/APR/2015	22/APR/2020



ABS Programs

ABS has used due diligence in the preparation of this certificate and it represents the information on the product in the ABS Records as of the date and time the certificate was printed. Type Approval requires Drawing Assessment, Prototype Testing and assessment of the manufacturer's quality assurance and quality control arrangements. Limited circumstances may allow only Prototype Testing to satisfy Type Approval. The approvals of Drawings and Products remain valid as long as the ABS Rule, to which they were assessed, remains valid. ABS cautions manufacturers to review and maintain compliance with all other specifications to which the product may have been assessed. Further, unless it is specifically indicated in the description of the product; Type Approval does not necessarily waive witnessed inspection or survey procedures (where otherwise required) for products to be used in a vessel, MODU or facility intended to be ABS classed or that is presently in class with ABS. Questions regarding the validity of ABS Rules or the need for supplemental testing or inspection of such products should, in all cases, be addressed to ABS.