



Certificate Number 19-CH3723467  
 Effective Date 04 September 2019  
 Expiration Date 11 September 2024  
 ABS Port Office Chicago  
 Website www.andronaco.com

CERTIFICATE OF  
**Manufacturing Assessment**

This is to certify that the Undersigned evaluated the manufacturing quality procedures of

**Nil-Cor, LLC**

located at

**4855 Broadmoor Drive, Kentwood, Michigan**


The quality monitoring systems during production were verified to reflect the specific surveys, required by the ABS Rules, Guides, the associated Specifications and Standards for the manufacture of

**Composite Valves**

This manufacturer presented a sample or specimen of the product, representative of the "type" approved for the purpose of verifying that the "type" has been manufactured in conformance with the Manufacturer's Product Design Assessment(s).

This Certificate is manufacturer and location specific and is subject to annual audits. Consult the ABS Type Approval website to confirm the continued validity of this certificate and the status of products.

The ABS Office issuing the certificate is to be kept updated with changes to the production methods, quality control systems, products and models and any changes made.

  
 P. Beattie Surveyor

**Annual Endorsement**

| First       | Second | Third | Fourth |
|-------------|--------|-------|--------|
| Surveyor    |        |       |        |
| WO and Date |        |       |        |

NOTE: This Certificate evidences compliance with one or more of the Rules, guides, standards or other criteria of American Bureau of Shipping and is issued solely for the use of the Bureau, its committees, its clients or other authorized entities. This Certificate is a representation only that the structure, item of material, equipment, machinery or any other item covered by this Certificate has met one or more of the Rules, guides, standards or other criteria of American Bureau of Shipping as of the date of issue. Parties are advised to review the Rules for the scope and conditions of classification and to review the survey records for a fuller description of any restrictions or limitation on the vessel's service or surveys. The validity, applicability and interpretation of this Certificate is governed by the Rules and standards of American Bureau of Shipping who shall remain the sole judge thereof. Nothing contained in this Certificate or in any notation made in contemplation of this Certificate shall be deemed to relieve any designer, builder, owner, manufacturer, seller, supplier, repairer, operator or other entity of any warranty express or implied.



|                      |                      |
|----------------------|----------------------|
| CERTIFICATE NUMBER   | 19-HS1909478-PDA     |
| EFFECTIVE DATE       | 24-Oct-2019          |
| EXPIRY DATE          | 23-Oct-2024          |
| ABS TECHNICAL OFFICE | Houston ESD - Piping |

## CERTIFICATE OF Product Design Assessment

This is to certify that a representative of this Bureau did, at the request of

### **NIL-COR LLC, AN ANDRONACO INDUSTRIES COMPANY**

located at

**4855 BROADMOOR AVENUE, KENTWOOD, MI, United States,  
49512**

assess design plans and data for the below listed product. This assessment is a representation by the Bureau as to the degree of compliance the design exhibits with applicable sections of the Rules. This assessment does not waive unit certification or classification procedures required by ABS Rules for products to be installed in ABS classed vessels or facilities. This certificate, by itself, does not reflect that the product is Type Approved. The scope and limitations of this assessment are detailed on the pages attached to this certificate.

#### **Product Valve, FRP Ball & Butterfly**

**Model Series 300M, 310M, 310, 310HD, 410M, 500M, 610M, 700, 710**

This Product Design Assessment (PDA) Certificate remains valid until 23/Oct/2024 or until the Rules and/or Standards used in the assessment are revised or until there is a design modification warranting design reassessment (whichever occurs first).

Acceptance of product is limited to the "Intended Service" details prescribed in the certificate and as per applicable Rules and Standards.

This Certificate is valid for installation of the listed product on ABS units which exist or are under contract for construction on or previous to the effective date of the ABS Rules and standards applied at the time of PDA issuance. Use of the Product for non-ABS units is subject to agreement between the manufacturer and intended client.

American Bureau Of Shipping

*Dustin De Los Santos*

Dustin De Los Santos, Engineer/Consultant

NOTE: This certificate evidences compliance with one or more of the Rules, Guides, standards or other criteria of ABS or a statutory, industrial or manufacturer's standards. It is issued solely for the use of ABS, its committees, its clients or other authorized entities. Any significant changes to the aforementioned product without approval from ABS will result in this certificate becoming null and void. This certificate is governed by ABS Rules 1-1-A3/5.9 Terms and Conditions of the Request for Product Type Approval and Agreement (2010)