

# ABS

CERTIFICATE NUMBER

04-HS407482B-PDA

DATE

27 January 2004

ABS TECHNICAL OFFICE

Houston SED - Ship Equipment

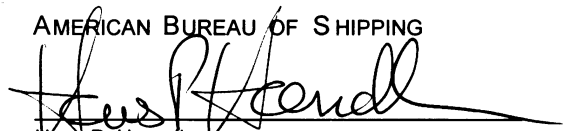
# CERTIFICATE OF Design Assessment

This is to Certify that a representative of this Bureau did, at the request of  
**Emerson Process Management-Bettis**

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. It will remain valid for five years from the date of issue or until the Rules or specifications used in the assessment are revised (whichever occurs first).

PRODUCT: Pneumatic Actuators  
MODEL: CBA-X30 Series  
ABS RULE: 2004 Steel Vessel Rules 1-1-4/3.7, 1-1-A3/5.1.1 & 4-6-7/3.5.5(a)  
OTHER STANDARD: Bettis Engineering Design Operating Procedural Guidelines (EDOP)

AMERICAN BUREAU OF SHIPPING



Hans P. Haendler

Engineering Type Approval Co-ordinator

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**Product:** Pneumatic Actuators

**Model:** CBA-X30 Series

**Intended Service:**

Valve Operation

**Description:**

CBA730, CBA730-SR40 -SR60 -SR80 -SR100  
CBA830, CBA830-SR40 -SR60 -SR80 -SR100  
CBA930, CBA930-SR40 -SR60 -SR80 -SR100  
CBA1030, CBA1030-SR40 -SR60 -SR80 -SR100

**Ratings:**

CBA730 & CBA730-SRXX = MAWP: 200 PSIG  
CBA830 & CBA830-SRXX = MAWP: 200 PSIG  
CBA930 & CBA930-SRXX = MAWP: 170 PSIG

**Service Restrictions:**

Unit Certification is not required for this product.

For use in Class III piping systems only.  
Not for use in propulsion and steering systems.

**Comments:**

None

**Term of Validity:**

This product/model is covered under Product Design Assessment (PDA) Certificate # 04-HS407482B-PDA, dated 27/Jan/2004. This PDA Certificate expires Jan of 2009. It will remain valid for the 5 years from date of issue or until the Rules or specifications used in the assessment are revised (whichever occurs first).

**STANDARDS**

**ABS Rules:**

2004 Steel Vessel Rules 1-1-4/3.7, 1-1-A3/5.1.1 & 4-6-7/3.5.5(a)

**Others:**

Bettis Engineering Design Operating Procedural Guidelines (EDOP)