



CERTIFICATE NUMBER

DATE

04-HS407482A/1-PDA

02 June 2009

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 - WALLER

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 as noted below or until the Rules or specifications used in the assessment are revised (whichever occurs first).

PRODUCT: Pneumatic Actuator

MODEL: CBA Series

ABS RULE: 2009 Steel Vessels Rules 1-1-4/7.7, 1-1-A3/5.1.1 & 4-6-7/3.5.5(a)

OTHER STANDARD: Bettis Engineering Design Operational Procedural Guidelines (EDOP);

AMERICAN BUREAU OF SHIPPING

Hans P. Haendler

Engineering Type Approval Co-ordinator

EMERSON PROCESS MANAGEMENT - BETTIS

18703 GH CIRCLE - P.O. BOX 508
WALLER
TX 77484
United States
Telephone: 281-727-5381
Fax: 281-727-5319

Valve Automation Division

Product: Pneumatic Actuator

Model: CBA Series

Intended Service:

Valve Operation

Description:

CBA315, CBA315-SR40 -SR60 -SR80 -SR100
CBA415-SR40 -SR60 -SR80 -SR100
CBA420, CBA420-SR40 -SR60 -SR80 -SR100
CBA520, CBA520-SR40 -SR60 -SR80 -SR100
CBA525, CBA525-SR40 -SR60 -SR80 -SR100
CBA725, CBA725-SR40 -SR60 -SR80 -SR100

Ratings:

CBA315 & CBA315-SRXX = MAWP: 200 PSIG
CBA415-SRXX = MAWP: 160 PSIG
CBA420 & CBA420-SRXX = MAWP: 200 PSIG
CBA520 & CBA520-SRXX = MAWP: 160 PSIG
CBA525 & CBA525-SRXX = MAWP: 200 PSIG
CBA725 & CBA725-SRXX = MAWP: 160 PSIG

Note: SR (Spring Return) is standard

DA (Double -Action) is optional

Service Restrictions:

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.

For use in Class III piping systems only.

Not for use in propulsion and steering applications.

Comments:

None

Notes / Drawings / Documentation:

This Product Design Assessment (PDA) is valid only 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.

Term of Validity:

This Design Assessment Certificate number 04-HS407482A/1-PDA, dated 02/Jun/2009 will expire on 01/Jun/2014 or at an earlier date should there be alterations to the product's design or changes to the referenced ABS Rules and other specifications, which affect the product. Product use on or after 1 January 2010, will be subject to compliance with the ABS Rules or specifications in effect when the vessel, MODU or facility is contracted. The product's acceptability on board ABS-classed vessels or facilities is defined in the service restrictions of this certificate.

STANDARDS

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Valve Automation Division

ABS Rules:

2009 Steel Vessels Rules 1-1-4/7.7, 1-1-A3/5.1.1 & 4-6-7/3-5.5(a)

Others:

Bettis Engineering Design Operational Procedural Guidelines (EDOP)