



Confirmation of Product Type Approval

Company Name: EMERSON PROCESS MANAGEMENT-VALVE AUTOMATION

Address: 19200 NW FRWY TX 77065 United States

Product: Pneumatic Actuator

Model(s): CB Series (CBA, CBA-X30 & CBB)

Endorsements:

Certificate Type	Certificate Number	Issue Date	Expiry Date
Product Design Assessment (PDA)	19-HS1903733-PDA	01-OCT-2019	30-SEP-2024
Manufacturing Assessment (MA)	20-HS4114797	10-FEB-2020	12-FEB-2025
Product Quality Assurance (PQA)	NA	NA	NA

Tier

3 - Type Approved, unit certification not required

Intended Service

Marine and Offshore Applications - Valve Operation.

Description

- Pneumatic actuators for ball, butterfly, lubricated/non-lubricated plug valves, and other 90 degree rotating mechanisms.

- Spring-return (SR) or double-acting (DA) configurations.

- Scotch-yoke design.

Ratings

Operating Pressures: 40 psig to 150 psig;

Operating (Ambient) Temperatures: -20 °F to +200 °F;

Degrees of Protection: IP66 and IP67;

CBA and CBB Series:

Torque Output Range, DA, Start/End: 678 lbf-in to 11515 lbf-in;

Torque Output Range, DA, Min.: 404 lbf-in to 6868 lbf-in;

Torque Output Range, SR, Start: 375 lbf-in to 11910 lbf-in;

Torque Output Range, SR, Min.: 153 lbf-in to 6189 lbf-in;

Torque Output Range, SR, End: 172 lbf-in to 11189 lbf-in;

CBA-X30 Series:

Torque Output Range, DA, Start/End: 7388 lbf-in to 20337 lbf-in;

Torque Output Range, DA, Min.: 4248 lbf-in to 11694 lbf-in;

Torque Output Range, SR, Start: 4589 lbf-in to 22962 lbf-in;

Torque Output Range, SR, Min.: 1704 lbf-in to 10885 lbf-in;

Torque Output Range, SR, End: 1892 lbf-in to 19166 lbf-in;

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.

Comments

1. The Manufacturer has provided a declaration about the control of, or the lack of Asbestos in this product.
2. Covers standard temperature trim range only.

Notes, Drawings and Documentation

Drawing No. PDA Renewal Declaration of Conformity, PDA Renewal Declaration of Conformity,
Revision: -, Pages: -

Previous Review:

Supporting Documentation:

Ref. review letter dated 2 June 2009, Task 462617;

152230, rev. A, CBBXXX-SRX Assembly Dwg;

151551, rev. A, Torque Shaft CBB X25;

151550, rev. A, HSG CBBX25/SR;

152013, rev. B, Torque Shaft CBB420/520;

152011, rev. A, HSG CBB420/520;

152014, rev. B, Torque Shaft CBB315/415;

152012, rev. A, HSG CBB315/415;

152441, rev. A, CBB420-SRX Dimensional Data;

152443, rev. A, CBB315-SRX Dimensional Data;

152444, rev. A, CBB525-SRX Dimensional Data;

129738, rev. E, CBAXXX Assembly Dwg;

128972, rev. C, CBA315 Dimensional Data;

128976, rev. B, CBA415-SRX Dimensional Data;
129739, rev. F, CBAXXX-SRX Assembly Dwg;
128981, rev. B, CBA520 Dimensional Data;
128984, rev. B, CBA525 Dimensional Data;
128987, rev. B, CBA725 Dimensional Data;
128978, rev. C, CBA420 Dimensional Data;
129743, rev. L, CBA300-SRX Assembly Drawing;
128997, rev. C, CBA930-SRX Dimensional Data with Options;
125610, rev. C, Housing CBA300;
125614, rev. C, Torque Shaft CBA300;
125689, rev. F, Cylinder CBA930-SR;
125645, rev. B, Piston CBA930/SR;
129742, rev. F, CBA300 Assembly Drawing;
128996, rev. C, CBA930 Dimensional Data with Options;
125688, rev. F, Cylinder CBA930;

Term of Validity

This Product Design Assessment (PDA) Certificate remains valid until 30/Sep/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.

ABS Rules

Rules for Conditions of Classification, Part 1 - 2019, 1-1-4/7.7, 1-1-A3, 1-1-A4, which covers the following:

2019 Marine Vessels Rules 4-6-7/5.3.3

Rules for Conditions of Classification, Part 1 - 2019 Offshore Units and Structures 1-1-A2, 1-1-A3, which covers the following:

2019 Mobile Offshore Units Rules 6-1-6/5.9

International Standards

NA

EU-MED Standards

NA

National Standards

NA

Government Standards

NA

Other Standards

Bettis Engineering Design Operational Procedural Guidelines.



A handwritten signature in blue ink, appearing to read "Joseph W. ...".

Corporate ABS Programs
American Bureau of Shipping
Print Date and Time: 29-Oct-2021 1:58

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 is printed.

If the Rules and/or standards used in the PDA evaluation are revised or if there is a design modification (whichever occurs first), a PDA revalidation may be necessary.

The continued validity of the MA is dependent on completion of satisfactory audits as required by the ABS Rules. The validity of both PDA and MA entitles the product to receive a **Confirmation of Product Type Approval**.

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 prior to the effective date of the ABS Rules and standards applied at the time of PDA issuance. 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.

Type Approval requires Drawing Assessment, Prototype Testing and assessment of the manufacturer's quality assurance and quality control arrangements. The manufacturer is responsible to maintain compliance with all specifications applicable to the product design assessment. Unless specifically indicated in the description of the product, certification under type approval does not waive requirements for witnessed inspection or additional survey for product use on a vessel, MODU or facility intended to be ABS classed or that is presently in class with ABS.

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.

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.