Certificate No: LR26244190TA
Issue Date: 14/12/2025
Expiry Date: 13/12/2030

Type Approval Certificate

This is to certify that the undernoted product(s) has/have been tested with satisfactory results in accordance with the relevant requirements of the Lloyd's Register Type Approval System.

Manufacturer	**Emerson Process Management Valve Automation**
Address	19200 Northwest Freeway, Houston, 77065, United States
Place of Production	Emerson Process Management Valve Automation(Tianjin) Co.,Ltd. NO.15 Xing Wang Road Wuqing DevelopmentArea, Area, Tianjin, 301700, China
Type	Actuator
Description	Quarter turn, scotch yoke, pneumatic actuators, double acting or spring return CBA 315, CBA415, CBA420, CBA520, CBA525 & CBA 725 (DA, -SR40, -SR-60, SR80 & -SR100) CBA 730, CBA830, CBA930 & CBA 1030 (DA, -SR40, -SR-60, SR80 & -SR100) CBB315, CBB415, CBB420, CBB520, CBB525, CBB725 (DA, -SR40, -SR-60, SR80 & -SR100)
Trade Name	CBA and CBB
Application	Fixed or mobile offshore use. To drive quarter turn valves to open or closed position using air in both directions (double acting) or air in one direction (spring return)
Specified Standard	Emerson Process Management Standard EOP 01 Rev 5 IEC60529

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Gopal Nair

Piping & Pressure System Principal Specialist
to Lloyd's Register North America, Inc.
A member of the Lloyd's Register group

REGUS 2600 South Shore Blvd, Suite 300 League
City, Houston, Texas, 77573, United States

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SI 1996 No. 825
SI 1996 No. 913
IP 66 & IP 67M

Ratings

Moment Arm (inches): 1.5, 2, 2.5 or 3
Operating pressure (psi) : 48 to 166 psi
Torque- double acting (lb.in) 380 to 20846
Torque- spring return (lb.in) 148 to 22055

Additional Tests

Water ingress as per IP 66 & IP 67M

Other Conditions

1. For applications on ESD valves the following are the limitations: -

(i) The actuators are to be fireproofed to the same rating of the valves and are to be protected against explosion or impact.
(ii) The actuators are to be spring return self-closing type.
(iii) Suitable local controls are to be provided at the installation to release the pneumatic supply air inlet for local closing of the spring return actuators.
(iv) The manual overrides are not to be provided.
(v) The evaluation of the leakage rate of the valve is not part of the actuator approval and is to be verified by the owner/operator.

2. This type approval may contribute to the requirement of a Verification Scheme established by a Duty Holder as per Safety Case Regulations 2015 (SCR 2015), SI 1996 No. 825 and SI 1996 No. 913.

This certificate is not valid for equipment, the design, ratings or operating parameters of which have been varied from the specimen tested. The manufacturer should notify Lloyd's Register North America, Inc. of any modification or changes to the equipment in order to obtain a valid Certificate.

Previous Version: 93/60111(E6)-02

The Design Appraisal Document TSO/25-047603/LR26244190TA/ PRJ111005069275/ GN and its supplementary Type Approval Terms and Conditions form part of this Certificate.

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