

LR Type Approval Certificate Extension

This is to certify that Certificate No. 93/60110(E4) for the undernoted products is extended and renumbered as shown.

PRODUCER	Valve Automation, Emerson Process Management
PLACE OF PRODUCTION	19200 NW Freeway Houston, Texas – 77065 USA
DESCRIPTION	Quarter turn, scotch yoke, pneumatic or hydraulic actuators, double acting or spring return.
TYPE	H, HD, SH & SHD series
STANDARDS	SI 1996 No. 825 SI 1989 No. 978 SI 1996 No. 913
RATINGS	Moment Arm (inches): 2 or 3 Operating pressure (psi) Pneumatic Actuators 40 to 250 Hydraulic Actuators 500 to 3000 Torque- double acting (lb.in) Pneumatic Actuators 1600 to 51000 Hydraulic Actuators 1750 to 51000 Torque- spring return (lb.in) Pneumatic Actuators 920 to 17040 Hydraulic Actuators 920 to 14150
APPLICATION	Fixed or mobile offshore use. To drive quarter turn valves to open or closed position using air or hydraulic pressure in both directions (double acting) or air or hydraulic pressure in one direction (spring return)
Certificate No.	93/60110 (E5)
Issue Date	6 Feb 2013
Expiry Date	5 Feb 2018
Sheet	1 of 2



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OTHER CONDITIONS

This type approval may contribute to the requirement of a Verification Scheme established by a Duty Holder 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."

The attached Design Appraisal Document No. 93/60110(E5) and its supplementary Type Approval Terms and Conditions form part of this Certificate.

All other details remain as the previous Certificate No. 93/60110(E4) to which this extension should be attached.

Certificate No.	93/60110 (E5)
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