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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.

This certificate supersedes certificate number 17/20018 issued on 21.02.2017 which is hereby cancelled.

This certificate is issued to:

PRODUCER	Metso Flow Control Inc. Vanha Porvoontie 229 01380 Vantaa Finland
DESCRIPTION	Double acting or spring return Pneumatic piston type quarter turn actuator.
TYPE	B1CU9 (double acting) B1CU17 (double acting) B1CU32 (double acting) B1JU8 (spring return) B1JU16 (spring return) B1JU32 (spring return)
APPLICATION	For the use in industrial and marine environment.
ADDITIONAL TESTS	Type tests were done according to standard EN 15714-3: 2009
STANDARD	EN15714-3: 2009 Pneumatic part-turn actuators for industrial valves – Basic requirements
RATINGS	Max. operating pressure: 8,5 bar / 120 psi Max. operating pressure B1CU32: 10 bar / 145 psi Temperature Range: -20 to 70°C / -4° to 158 °F
Certificate No.	17/20018 (E1)
Issue Date	18 September 2017
Expiry Date	20 February 2022
Sheet	1 of 2



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OTHER CONDITIONS

Selection and installation of actuator have to be in accordance with the manufactures recommendations.

Actuators intended for use in a potentially explosive atmosphere can be requested but are not covered by this approval.

Not to be used in spaces where failure caused by fire could result in fire spread, flooding or the loss of an essential service.

The Type Approval does not eliminate the need for normal inspection and survey procedures required by the Rules and Regulations.

If the specified standards are amended during the validity of this certificate, the product is to be re-approved prior to it being supplied to vessels to which the amended standards apply.

The Design Appraisal Document No. HTS/ENS 35738-17, Issue 1 and its supplementary Type Approval Terms and Conditions form part of this Certificate.

Certificate No.	17/20018 (E1)
Issue Date	18 September 2017
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