Certificate No: LR22454799TA
Issue Date: 27/10/2022
Expiry Date: 26/10/2027

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	**Triumph Controls-Germany GmbH**
Address	Carl-Zeiss-Str. 5, Heiligenhaus, 42579, Germany
Type	Remote mechanical valve control
Description	RMVA, AdapTdrive
Trade Name	RMVA System Components
Application	(Rev. A) Nav-Tech TCG100200-BSC Remote operation of valves and fittings in marine, offshore and industrial applications classed or intended for Classification with Lloyd's Register.
Specified Standard	LR Rules and Regulations for the Classification of Ships, July 2022, Shock (equivalent MIL-S-901D) MIL-STD-810H Method 528.1, Procedure I, Vibration (equivalent MIL-STD-167-1A) MIL-STD-810H Method 528.1 Type 1, Flame API 607 / ISO-10497-2010, Submergible MIL-STD-108E
Ratings	Minimum bend radius: R=305 mm [12 inches], Minimum straight conduit between bends: 152 mm [6 inches], Maximum system length (Operator to Valve Station): 61 m [200 feet], Maximum total degrees of bend: 540° (6 x 90°) System output torque: according to product catalogue Operating Temperature: -55°C to +205°C [-65°F to +400°F]

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Other Conditions The manufacturer's installation instructions are to be sought.
For deck and bulkhead penetrations see also the requirements of the National Authorities.

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 EMEA of any modification or changes to the equipment in order to obtain a valid Certificate.

The Design Appraisal Document HPC 2061027, Issue 1 and its supplementary Type Approval Terms and Conditions form part of this Certificate.

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