

DET NORSKE VERITAS TYPE APPROVAL CERTIFICATE

CERTIFICATE NO. M-11260

This Certificate consists of 2 pages

This is to certify that the

Toothed Coupling

with type designations

BOWEX type M/I, AS, Spec.-I, SG, SSR, SD, M...C, FLE-PA, FLE-PAC.

Manufactured by

KTR Kupplungstechnik GmbH

RHEINE, Germany

is found to comply with

Det Norske Veritas' Rules for Classification of Ships/High Speed and Light Craft

Application

The approval is valid for auxiliary duty with ratings and applications according to general company catalogue 01/2005 chapter Bowex - Curved-tooth gear couplings (page 65 to 87) and branch catalogue FLE-PA (page 11).

Type

Nominal torque

BOWEX type M/I, AS, Spec.-I, SG, SSR, SD, M...C, FLE-PA, FLE-PAC.

see KTR Catalogue 2009, page 72 and branch catalogue FLE-PA page 11.

Place and date Høvik, 2009-08-06

for DET NORSKE VERITAS AS

Tomas Heber Tronstad

Head of Section

Local Office DNV Essen This Certificate is valid until

2013-06-30

Hans-Kristian Eriksen

Surveyor

Notice: This Certificate is subject to terms and conditions overleaf. Any significant change in design or construction may render this Certificate invalid.

The validity date relates to the Type Approval Certificate and not to the approval of equipment/systems installed.

If any person suffers loss or damage which is proved to have been caused by any negligent act or omission of Det Norske Veritas, then Det Norske Veritas shall pay compensation to such person for his proved direct loss or damage However, the compensation shall not exceed an amount equal to ten times the fee charged for the service in question, provided that the maximum compensation shall never exceed USD 2 million. In this provision "Det Norske Veritas" shall meant have provided that the maximum compensation shall never exceed USD 2 million. In this provision "Det Norske Veritas" shall never exceed USD 2 million. In this provision "Det Norske Veritas" shall never exceed USD 2 million. In this provision "Det Norske Veritas" shall never exceed USD 2 million. In this provision "Det Norske Veritas" shall never exceed USD 2 million. In this provision "Det Norske Veritas" shall never exceed USD 2 million. In this provision "Det Norske Veritas" shall never exceed USD 2 million. In this provision "Det Norske Veritas" shall never exceed USD 2 million. In this provision "Det Norske Veritas" shall never exceed USD 2 million. In this provision "Det Norske Veritas" shall never exceed USD 2 million. In this provision "Det Norske Veritas" shall never exceed USD 2 million. In this provision "Det Norske Veritas" shall never exceed USD 2 million. In this provision "Det Norske Veritas" shall never exceed USD 2 million. In this provision "Det Norske Veritas" shall never exceed USD 2 million. In this provision "Det Norske Veritas" shall never exceed USD 2 million. In this provision "Det Norske Veritas" shall never exceed USD 2 million. In this provision "Det Norske Veritas" shall never exceed USD 2 million. In this provision "Det Norske Veritas" shall never exceed USD 2 million. In this provision "Det Norske Veritas" shall never exceed USD 2 million. In this provision "Det Norske Veritas" shall never exceed USD 2 million this provision "Det Norske Veritas" shall never exceed USD 2 million this provision "Det Norske Veritas" shall ne

DET NORSKE VERITAS AS

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Form No.: 20.90a Issue: January 98

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Cert. No.: M-11260 File No.: 714.70

Case No.: 262.1-007890

Product description

Curved-tooth gear coupling

Application/Limitation

The approval is valid for auxiliary duty with ratings and applications according to KTR General Company Catalogue 2009 and branch catalogue FLE-PAC (page 11).

Type Approval documentation

KTR Catalogue 2009, chapter Bowex Curved-tooth couplings (page 69 to 91) KTR Branch catalogue FLE-PA (page 11).

Marking of product

The product to be marked with manufacturer's name or trademark and type number identification.

Certificate retention survey

For retention of the Type Approval, a DNV surveyor shall perform survey every second year and before expiry date of this certificate to verify that the conditions of the type approval is complied with.

Other conditions

DNV product certificate is not required for power ratings up to 500 kW or rated torque less than 5 kNm for auxiliary duty where torsional vibration calculations is not required.

The type approval does not cover connection to external shaft.

END OF CERTIFICATE

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