



Marine &amp; Offshore

Certificate number: 13481/D0 BV

File number: ACM 171/0902/001

Product code: 0020I

*This certificate is not valid when presented without the full attached schedule composed of 7 sections*

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## TYPE APPROVAL CERTIFICATE

*This certificate is issued to*

**SKF Maintenance Products**

Nieuwegein - NETHERLANDS

*for the type of product*

**CHOCKING DEVICES FOR MACHINERY**

SKF Vibracon © SM - LP Readjustable Chocking Element

**Requirements:**

BUREAU VERITAS Rules for the Classification of Steel Ships.

*This certificate is issued to attest that Bureau Veritas Marine & Offshore did undertake the relevant approval procedures for the product identified above which was found to comply with the relevant requirements mentioned above.*

*This certificate is a renewal of certificate N° 13481/C0 BV expiring on 27/05/2018*

**This certificate will expire on: 27 May 2023**

**For Bureau Veritas Marine & Offshore,**

At BV GRONINGEN, on 09 Apr 2018,

John Mondt



This certificate remains valid until the date stated above, unless cancelled or revoked, provided the conditions indicated in the subsequent page(s) are complied with and the product remains satisfactory in service. This certificate will not be valid if the applicant makes any changes or modifications to the approved product, which have not been notified to, and agreed in writing with Bureau Veritas Marine & Offshore. Should the specified regulations or standards be amended during the validity of this certificate, the product(s) is/are to be re-approved prior to it/they being placed on board vessels to which the amended regulations or standards apply. This certificate is issued within the scope of the General Conditions of Bureau Veritas Marine & Offshore available on the internet site [www.veristar.com](http://www.veristar.com). Any Person not a party to the contract pursuant to which this document is delivered may not assert a claim against Bureau Veritas Marine & Offshore for any liability arising out of errors or omissions which may be contained in said document, or for errors of judgement, fault or negligence committed by personnel of the Society or of its Agents in establishment or issuance of this document, and in connection with any activities for which it may provide.

## THE SCHEDULE OF APPROVAL

### 1. PRODUCT DESCRIPTION:

**SKF Vibracon ® SM - LP Readjustable Chocking Elements**

Dimensions	Machine load (kN)	Design load (kN)
SM 16LP	15	90
SM 20LP	25	140
SM 24LP	35	200
SM 30LP	62	325
SM 36LP	90	475
SM 42LP	120	675
SM 48LP	160	850
SM 56LP	225	1150

### 2. DOCUMENTS AND DRAWINGS:

Reviewed drawings for each dimension:

SKF VIBRACON SM **XX** Low Profile TOP PLATE N° 1400-0**XX**-1-

SKF VIBRACON SM **XX** Low Profile CENTER PLATE N° 1400-0**XX**-2-

SKF VIBRACON SM **XX** Low Profile BASE PLATE N° 1400-0**XX**-3-

SKF VIBRACON SM **XX** Low Profile GENERAL N° 1400-0**XX**-4-

ST52.3 or 42CrMo4 or CK 45 steel. Other material on request to be submitted for each application.

Nota: revision index of drawings as per drawings filed in MPA system under ref PDR ACM071/0902/001

### 3. TEST REPORTS:

Tests of SKF Vibracon ® SM - LP Elements dated July 2, 2003.

### 4. APPLICATION / LIMITATION:

#### 4.1 - Application / Limitation of use:

Chocking of internal combustion engine, reduction and step up gear boxes, gas and steam turbines, generators, pumps and bearings

#### 4.2 - On board installation & Maintenance requirements:

The devices are to be fitted according to the supplier's instructions.

Particulars and supporting calculations note must be submitted to the Society for each application.

### 5. PRODUCTION SURVEY REQUIREMENTS:

5.1 - The **SKF Vibracon® SM - LP Readjustable Chocking Elements** are to be supplied by **SKF Maintenance Products** in compliance with the type and the requirements described in this certificate.

5.2 - This type of product is within the category IBV of Bureau Veritas Rule Note NR320.

5.3 - BV product certificate is required.

5.4 - Inspection on board ships by the Society Surveyor.

5.5 - For information, **SKF Maintenance Products** has declared to Bureau Veritas the following production site(s):

**SKF Maintenance Products**  
**Kelvinbaan 16**  
**3439 MT Nieuwegein**  
**NETHERLANDS**

### 6. MARKING OF PRODUCT:

SKF Vibracon ® SM - LP Elements should be marked as per Manufacturer's instructions:

- Serial number
- Size

### 7. OTHERS:

7.1 - It is **SKF Maintenance Products's** responsibility to inform shipbuilders or their sub-contractors of the proper methods of fitting, use and general maintenance of the approved equipment and the conditions of this approval.

7.2 - This TAC supersedes the Certificate 13481/C0 BV issued on 28 May 2013 by the Society.

\*\*\* END OF CERTIFICATE \*\*\*