



CERTIFICATE NUMBER	19-1915621-1-PDA
EFFECTIVE DATE	14-Jun-2022
EXPIRY DATE	13-Nov-2024
ABS TECHNICAL OFFICE	Houston ESD - Ship Equipment

CERTIFICATE OF Product Design Assessment

This is to certify that a representative of this Bureau did, at the request of

SKF B.V.

located at

MEIDOORNKADE 14, , HOUTEN, Netherlands, 3992 AE

assess design plans and data for the below listed product. This assessment is a representation by the Bureau as to the degree of compliance the design exhibits with applicable sections of the Rules. This assessment does not waive unit certification or classification procedures required by ABS Rules for products to be installed in ABS classed vessels or facilities. This certificate, by itself, does not reflect that the product is Type Approved. The scope and limitations of this assessment are detailed on the pages attached to this certificate.

Product: Chocks, Steel, Adjustable
Model: SM 12-16-20-24-30-36-42-48-56-64, Vibracon SM Chocks
SM 12 E, SM 16 E, SM 20 E, SM 24 E, SM 30 E, SM 36 E, SM42 E, SM 48 E, SM 56 E, SM 64 E,
Vibracon SM E chocks
SM 16 LP, SM 20 L...
Endorsements:
Tier: 2 - PDA Issued

This Product Design Assessment (PDA) Certificate remains valid until 13/Nov/2024 or until the Rules and/or Standards used in the assessment are revised or until there is a design modification warranting design reassessment (whichever occurs first).

Acceptance of product is limited to the "Intended Service" details prescribed in the certificate and as per applicable Rules and Standards.

This Certificate is valid for installation of the listed product on ABS units which exist or are under contract for construction on or previous to the effective date of the ABS Rules and standards applied at the time of PDA issuance. Use of the Product for non-ABS units is subject to agreement between the manufacturer and intended client.

American Bureau Of Shipping


Jess Godrich Totten, Engineer/Consultant

NOTE: This certificate evidences compliance with one or more of the Rules, Guides, standards or other criteria of ABS or a statutory, industrial or manufacturer's standards. It is issued solely for the use of ABS, its committees, its clients or other authorized entities. Any significant changes to the aforementioned product without approval from ABS will result in this certificate becoming null and void. This certificate is governed by ABS Rules 1-1-A3/5.9 Terms and Conditions of the Request for Product Type Approval and Agreement (2010)

SKF B.V.

MEIDOORNKADE 14

HOUTEN

Netherlands 3992 AE

Telephone: NA

Fax:

Email: vibracon@skf.com

Web: www.vibracon.com

Tier: 2 - PDA Issued

Product: Chocks, Steel, Adjustable

Model: SM 12-16-20-24-30-36-42-48-56-64, Vibracon SM Chocks

SM 12 E, SM 16 E, SM 20 E, SM 24 E, SM 30 E, SM 36 E, SM42 E, SM 48 E, SM 56 E, SM 64 E, Vibracon SM E chocks

SM 16 LP, SM 20 LP, SM 24 LP, SM 30 LP, SM36 LP, SM42 LP, Vibracon SM LP chocks

SM 16 ELP, SM 20 ELP, SM 24 ELP, SM 30 ELP, SM36 ELP, SM42 ELP, Vibracon SM ELP Chocks

Endorsements:

Intended Service:

Chocking of rotating equipment (bearings, gearboxes, piston engines, generators, steering gears, etc.) for Marine and Offshore Applications.

Description:

SKF Vibracon re-adjustable chock, three parts top plate - center plate - base plate.

Rating:

Refer to Rating as separate attachment

Service Restriction:

Unit Certification is not required for this product. If the manufacturer or purchaser request an ABS Certificate for compliance with a specification or standard, the specification or standard, including inspection standards and tolerances, must be clearly defined.

Comments:

- 1) Details and design calculations for chocking arrangement are to be submitted for review for each installation.
- 2) The chock is to be installed in accordance with manufacturer's instructions to the satisfaction of the attending Surveyor.
- 3) The Manufacturer has provided a declaration about the control of, or the lack of Asbestos in this product.

Notes/Drawing/Documentation:

Refer to Drawing List as separate attachment

Terms of Validity:

This Product Design Assessment (PDA) Certificate remains valid until 13/Nov/2024 or until the Rules and/or Standards used in the assessment are revised or until there is a design modification warranting design reassessment (whichever occurs first).

Acceptance of product is limited to the "Intended Service" details prescribed in the certificate and as per applicable Rules and Standards.

This Certificate is valid for installation of the listed product on ABS units which exist or are under contract for construction on or previous to the effective date of the ABS Rules and standards applied at the time of PDA issuance. Use of the Product for non-ABS units is subject to agreement between the manufacturer and intended client.

STANDARDS

ABS Rules:

Rules for Conditions of Classification, Part 1 - 2022 Marine Vessels Rules 1-1-4/7.7, 1-1-A3, 1-1-A4, which covers

SKF B.V.

MEIDOORNKADE 14

HOUTEN

Netherlands 3992 AE

Telephone: NA

Fax:

Email: vibracon@skf.com

Web: www.vibracon.com

Tier: 2 - PDA Issued

the following:

2022 Marine Vessel Rules: 4-2-1/11.3

Rules for Conditions of Classification, Part 1, 2022 Mobile Offshore Units 1-1-4/9.7, 1-1A2, 1-1A3, which covers the following:

2022 Rules for Building and Classing Mobile Offshore Units: 6-1-1/1.1

National:

NA

International:

NA

Government:

NA

EUMED:

NA

OTHERS:

NA

SKF B.V.

19-1915621-1-PDA

Model: SM 12-16-20-24-30-36-42-48-56-64, Vibracon SM Chocks

SM 12 E, SM 16 E, SM 20 E, SM 24 E, SM 30 E, SM 36 E, SM42 E, SM 48 E, SM 56 E, SM 64 E, Vibracon SM E chocks

SM 16 LP, SM 20 LP, SM 24 LP, SM 30 LP, SM36 LP, SM42 LP, Vibracon SM LP chocks

SM 16 ELP, SM 20 ELP, SM 24 ELP, SM 30 ELP, SM36 ELP, SM42 ELP, Vibracon SM ELP Chocks

Issue Date: 14 June 2022

Expiry Date: 13 November 2024

Rating, Rev. 0

Type	Suffix	Suffix	Suffix	Maximum Allowed Machine Load (kN)	Maximum Chock Load (kN)
SM 12	-CSTR	-CS	-SS	8	48
SM 16	-CSTR	-CS	-SS	15	90
SM 20	-CSTR	-CS	-SS	25	140
SM 24	-CSTR	-CS	-SS	35	200
SM 30	-CSTR	-CS	-SS	60	325
SM 36	-CSTR	-CS	-SS	90	475
SM 42	-CSTR	-CS	-SS	120	675
SM 48	-CSTR	-CS	-SS	160	850
SM 56	-CSTR	-CS	-SS	225	1150
SM 64	-CSTR	-CS	-SS	300	1900
SM 16	LP-ASTR			15	90
SM 20	LP-ASTR			25	140
SM 24	LP-ASTR			35	200
SM 30	LP-ASTR			60	325
SM 36	LP-ASTR			90	475
SM 42	LP-ASTR			120	675

Type	Suffix	Suffix	Suffix	Maximum Allowed Machine Load	Maximum Chock Load
				(kN)	(kN)
SM 12	E-CSTR	E-CS	E-SS	15	90
SM 16	E-CSTR	E-CS	E-SS	25	140
SM 20	E-CSTR	E-CS	E-SS	35	200
SM 24	E-CSTR	E-CS	E-SS	60	325
SM 30	E-CSTR	E-CS	E-SS	90	475
SM 36	E-CSTR	E-CS	E-SS	120	650
SM 42	E-CSTR	E-CS	E-SS	160	850
SM 48	E-CSTR	E-CS	E-SS	200	1150
SM 56	E-CSTR	E-CS	E-SS	260	1500
SM 64	E-CSTR	E-CS	E-SS	380	2000
SM 16	ELP-ASTR			25	140
SM 20	ELP-ASTR			35	200
SM 24	ELP-ASTR			60	325
SM 30	ELP-ASTR			90	475
SM 36	ELP-ASTR			120	650
SM 42	ELP-ASTR			160	850