

Factory-Verified Replacement

MERYDOM VLI 200544 N

Certified for interchange with INA VLI 200544 N. This document consolidates the public product record, complete published specifications, technical media, source traceability and engineering confirmation notes.

LEVEL 3 - MERYDOM ENGINEERING VERIFIED

Reviewed by MERYDOM Engineering Department. Final application approval must confirm loads, duty cycle, mounting rigidity, bolt capacity, lubrication and operating conditions.

MERYDOM MODEL

VLI 200544 N

SERIES

VLI 20 Series

OVERALL OD

648 mm

OVERALL HEIGHT

mm

REFERENCE

INA VLI 200544 N

STRUCTURE

Four-point contact ball

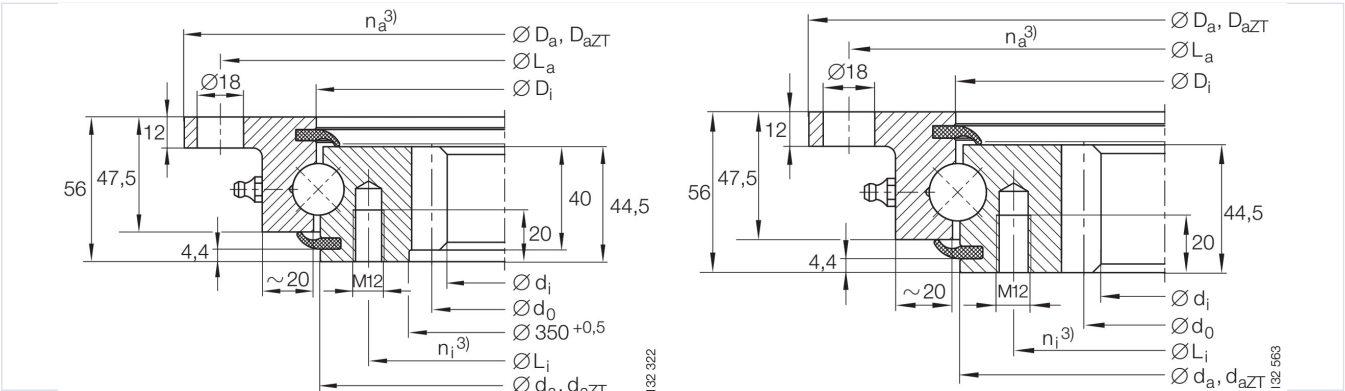
OVERALL ID

444 mm

GEAR

Internal gear

Published Technical Drawing



ina-g02-drawing.webp

Complete Product Data

All values below are generated from the current public verified replacement record. Source values are retained and metric references are shown where available.

MERYDOM CERTIFIED PRODUCT	
Product brand	MERYDOM
MERYDOM model	VLI 200544 N
Certified interchangeable with	INA VLI 200544 N
Verification status	Level 3 - MERYDOM Engineering Verified
Reviewed by	MERYDOM Engineering Department
Public record UID	FR6MXSLF7J6K3HHHGBAUD2FBNE
MATERIALS	
Configurable ring material options	42CrMo / 50Mn
Seal material	NBR - Nitrile rubber
Configurable spacer material options	Engineering nylon / Brass
IDENTIFICATION	
Reference brand	INA
Reference series	VLI 20 Series
Reference model	VLI 200544 N
Bearing structure	Four-point contact ball
Gear arrangement	Internal gear
DIMENSION	
Mass (Mass)	38 kg
Overall outside diameter (Da)	648-0,5 mm
Outside centring diameter (DaZT)	646 mm

Complete Product Data

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DIMENSION (CONTINUED)	
Overall inside diameter (di)	444 mm
Catalog diameter Di (Di)	545,5+0,5 mm
Catalog diameter da (da)	542,5-0,5 mm
Catalog centring diameter daZT (daZT)	541 mm
MOUNTING	
Outer ring bolt circle (La)	620 mm
Outer ring mounting-hole count (na)	10
Inner ring bolt circle (Li)	505 mm
Inner ring mounting-hole count (ni)	16
GEAR	
Gear pitch diameter (d0)	456 mm
Gear module (m)	6 mm
Gear tooth count (z)	76
PERFORMANCE	
Maximum permissible radial load (Fr perm)	66.1 kN
Normal tooth force (Fznorm)	23.7 kN
Maximum tooth force (Fzmax)	35 kN
Basic dynamic axial load rating (Ca)	188 kN
Basic static axial load rating (C0a)	385 kN
Basic dynamic radial load rating (Cr)	123 kN

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PERFORMANCE (CONTINUED)	
Basic static radial load rating (C _{0r})	145 kN
PERFORMANCE RATINGS	
Rating Radial Static	145 kN Not simultaneous with other listed dynamic ratings
Rating Axial Static	385 kN Not simultaneous with other listed dynamic ratings
Rating Radial Dynamic	123 kN Not simultaneous with other listed dynamic ratings
Rating Axial Dynamic	188 kN Not simultaneous with other listed dynamic ratings
Rating Tooth Force Max	35 kN Not simultaneous with other listed dynamic ratings
Rating Tooth Force Normal	23.7 kN Not simultaneous with other listed dynamic ratings
Rating Radial Load Max	66.1 kN Not simultaneous with other listed dynamic ratings
MOUNTING INTERFACES	
Outer ring mounting	10 holes - See source drawing
Inner ring mounting	16 holes - See source drawing
GEAR INTERFACE	
Pitch system	module
Module reference	6 mm
Number of teeth	76
SOURCE TRACEABILITY	
Source document code	INA-SLEWING-RINGS-CATALOGUE-404-2012
Source file	404_de_en_1.pdf
PDF page	56

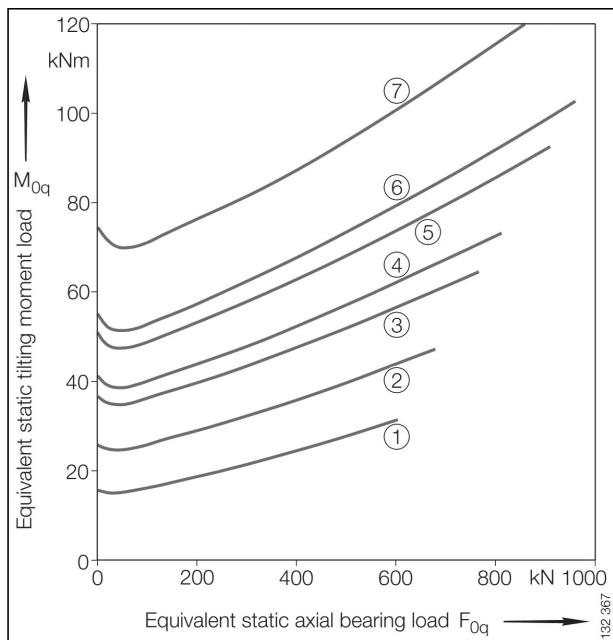
Complete Product Data

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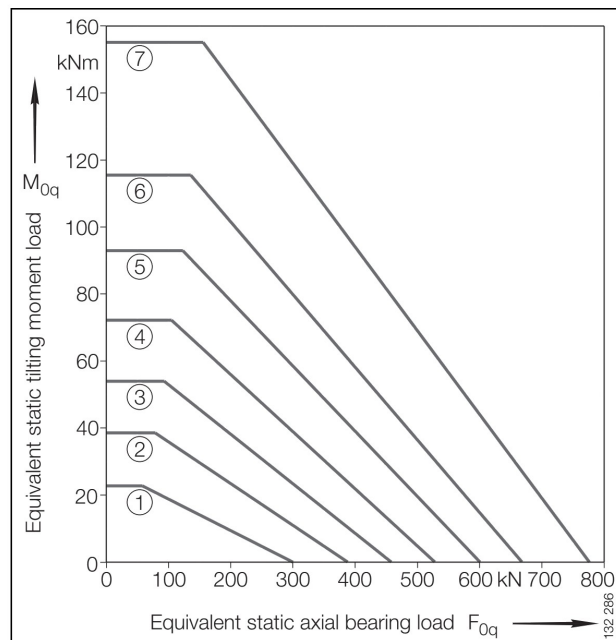
SOURCE TRACEABILITY (CONTINUED)	
Printed page	54
Source language	EN-DE
Original unit system	Metric
PUBLISHED TECHNICAL MEDIA	
Load Curve Chart	ina-g02-curve.webp SHA-256: 67b1110bb78cbb8ad73ff038dd22c2e522e8f81299dd1fd561b69d622dc87819
Outline Drawing	ina-g02-drawing.webp SHA-256: bc168375639e36d3e8c04c1abd5d716b56de2ddddf269d674cd7d75bed7b8b1b

Published Load / Performance Chart

Use the published chart as a preliminary selection aid only. The model legend, curve family and source document must be reviewed together with the operating load case.



Static limiting load diagram



Static limiting load diagram

ina-g02-curve.webp | SHA-256: 67b1110bb78cbb8ad73ff038dd22c2e522e8f81299dd1fd561b69d622dc87819

Engineering note: final approval must also consider mounting rigidity, bolt capacity, duty cycle, lubrication, temperature, environment and installation conditions.

Source and Verification Traceability

PUBLIC RECORD UID FR6MXSLF7J6K3HHHGBAUD2FBNE	SOURCE DOCUMENT INA-SLEWING-RINGS-CATALOGUE-404-2012
SOURCE FILE 404_de_en_1.pdf	SOURCE LOCATION PDF page 56 Printed page 54
VERIFICATION Level 3 - MERYDOM Engineering Verified	REVIEWED BY MERYDOM Engineering Department

Engineering Confirmation Boundary

- 1

Confirm the exact model designation and all installation-envelope dimensions.
- 2

Confirm mounting-hole quantity, bolt circle, hole specification, bolt grade and preload.
- 3

Confirm gear arrangement, pitch system, tooth count, backlash and mating-pinion data.
- 4

Confirm axial, radial and moment loads, load combinations, duty cycle and required life.
- 5

Confirm support flatness and stiffness, lubrication, sealing, temperature and environment.
- 6

Final drawing revision, manufacturing tolerances and documentation package are confirmed with the quotation.

Request Price, Delivery and Final Engineering Confirmation

Email: jovi@merydom.com | Email: andi@merydom.com | WhatsApp: +86 17705201170

Product page: <https://rotnex.com/products/slewing-bearing-replacements/ina/vli-200544-n/>

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