

Factory-Verified Replacement

MERYDOM 91-32 1455/1-06165

Certified for interchange with IMO 91-32 1455/1-06165.
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

91-32 1455/1-06165

REFERENCE

IMO 91-32 1455/1-06165

SERIES

932 Series

STRUCTURE

Cuscinetto a sfere con anelli
flangiati

OVERALL OD

1,598 mm

OVERALL ID

1,305 mm

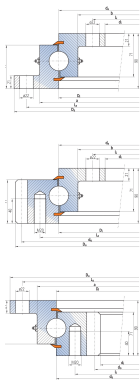
OVERALL HEIGHT

mm

GEAR

Dentatura esterna

Published Technical Drawing



imo-91321455106165-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	91-32 1455/1-06165
Certified interchangeable with	IMO 91-32 1455/1-06165
Verification status	Level 3 - MERYDOM Engineering Verified
Reviewed by	MERYDOM Engineering Department
Public record UID	HTWBI7S6Z67F6JBPT25PIQF6E
MATERIALS	
Configurable ring material options	42CrMo / 50Mn
Seal material	NBR - Nitrile rubber
Configurable spacer material options	Engineering nylon / Brass
IDENTIFICATION	
Reference brand	IMO
Reference series	932 Series
Reference model	91-32 1455/1-06165
Bearing structure	Cuscinetto a sfere con anelli flangiati
Gear arrangement	Dentatura esterna
DIMENSION	
Overall outside diameter (Da)	1.598 mm
Overall inside diameter (di)	1.305 mm
Assembly weight (G)	250 kg

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.

MOUNTING	
Outer ring bolt circle (La)	1.516 mm
Outer ring mounting-hole count (na)	48
Inner ring bolt circle (Li)	1.345 mm
Inner ring mounting-hole count (ni)	48
GEAR	
Gear pitch diameter (d)	1.580 mm
Gear module (m)	10 mm
Gear tooth count (z)	158
PERFORMANCE	
Permitted circumferential force, normal (fz_norm)	43 kN
Permitted circumferential force, maximum (fz_max)	76 kN
Static radial load rating (Co_rad)	1.568 kN
Static axial load rating (Co_ax)	4.196 kN
Dynamic radial load rating (C_rad)	482 kN
Dynamic axial load rating (C_ax)	561 kN
PERFORMANCE RATINGS	
Fz Norm	43 kN Not simultaneous with other listed dynamic ratings
Fz Max	76 kN Not simultaneous with other listed dynamic ratings
Co Rad	1.568 kN Not simultaneous with other listed dynamic ratings
Co Ax	4.196 kN Not simultaneous with other listed dynamic ratings

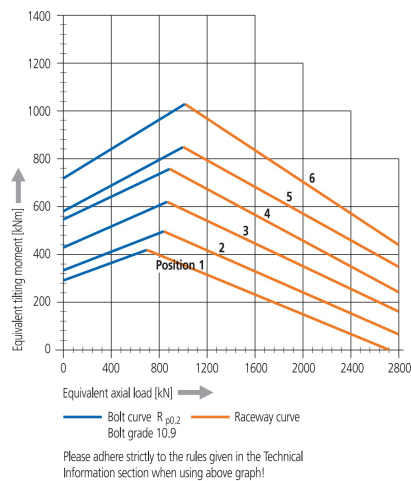
Complete Product Data

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

PERFORMANCE RATINGS (CONTINUED)	
C Rad	482 kN Not simultaneous with other listed dynamic ratings
C Ax	561 kN Not simultaneous with other listed dynamic ratings
MOUNTING INTERFACES	
Outer ring mounting	48 holes - See source drawing
Inner ring mounting	48 holes - See source drawing
GEAR INTERFACE	
Pitch system	module
Module reference	10 mm
Number of teeth	158
SOURCE TRACEABILITY	
Source document code	IMO_FLANGE_BALL_EN
Source file	imo_kugeldrehverbindung_mit_flanschring-en.pdf
PDF page	7
Printed page	Not published
Source language	EN
Original unit system	Metric
PUBLISHED TECHNICAL MEDIA	
Load Curve Chart	imo-91321455106165-curve.webp SHA-256: a44feff5429d64f7d07f60850d7264707f422d0db41338a7dd379f06d9b83d9f
Outline Drawing	imo-91321455106165-drawing.webp SHA-256: a7b3ea7414e98cf4e3b3dbefec2ad21c277d1a7289ac0de3d5305f88df9f914f

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.



Radial clearance: 0 - 0.2 mm
Axial tilting clearance: 0 - 0.4 mm
Bearing ring material: C45N
6 Taper type grease nipples on the circumference
Mounting holes equally spaced
Raceway system supplied pre-lubricated.
Dimensions without tolerances DIN ISO 2768 coarse

imo-91321455106165-curve.webp | SHA-256: a44feff5429d64f7d07f60850d7264707f422d0db41338a7dd379f06d9b83d9f

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

HTWBI7S6Z67F6JBPT25PIQF6E

SOURCE DOCUMENT

IMO_FLANGE_BALL_EN

SOURCE FILE

imo_kugeldrehverbindung_mit_flanschring-en.pdf

SOURCE LOCATION

PDF page 7 | Printed page Not published

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

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Product page: <https://rotnex.com/it/prodotti/cuscinetti-di-rotazione-sostitutivi/imo/91-32-1455-1-06165/>

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