

Factory-Verified Replacement

MERYDOM 12-16 0420/1-00728

Certified for interchange with IMO 12-16 0420/1-00728.
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

12-16 0420/1-00728

REFERENCE

IMO 12-16 0420/1-00728

SERIES

OTHER_STANDARD_BALL Series

STRUCTURE

Four-point contact ball

OVERALL OD

mm

OVERALL ID

mm

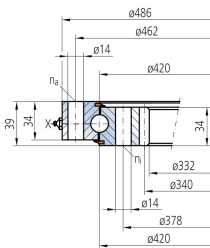
OVERALL HEIGHT

mm

GEAR

Internal gear

Published Technical Drawing



imo-12160420100728-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	12-16 0420/1-00728
Certified interchangeable with	IMO 12-16 0420/1-00728
Verification status	Level 3 - MERYDOM Engineering Verified
Reviewed by	MERYDOM Engineering Department
Public record UID	YVGOI4R4JRVFMMNF43FQ3EWX3H
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	OTHER_STANDARD_BALL Series
Reference model	12-16 0420/1-00728
Bearing structure	Four-point contact ball
Gear arrangement	Internal gear
DIMENSION	
Assembly weight (G)	24 kg
MOUNTING	
Outer ring mounting-hole count (na)	16

Complete Product Data

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MOUNTING (CONTINUED)	
Inner ring mounting-hole count (ni)	16
GEAR	
Gear module (m)	4 mm
Gear tooth count (z)	66
PERFORMANCE	
Permitted circumferential force, normal (fz_norm)	8 kN
Permitted circumferential force, maximum (fz_max)	16.5 kN
Static radial load rating (Co_rad)	262 kN
Static axial load rating (Co_ax)	702 kN
Dynamic radial load rating (C_rad)	154 kN
Dynamic axial load rating (C_ax)	179 kN
PERFORMANCE RATINGS	
Fz Norm	8 kN Not simultaneous with other listed dynamic ratings
Fz Max	16.5 kN Not simultaneous with other listed dynamic ratings
Co Rad	262 kN Not simultaneous with other listed dynamic ratings
Co Ax	702 kN Not simultaneous with other listed dynamic ratings
C Rad	154 kN Not simultaneous with other listed dynamic ratings
C Ax	179 kN Not simultaneous with other listed dynamic ratings
MOUNTING INTERFACES	
Outer ring mounting	16 holes - See source drawing

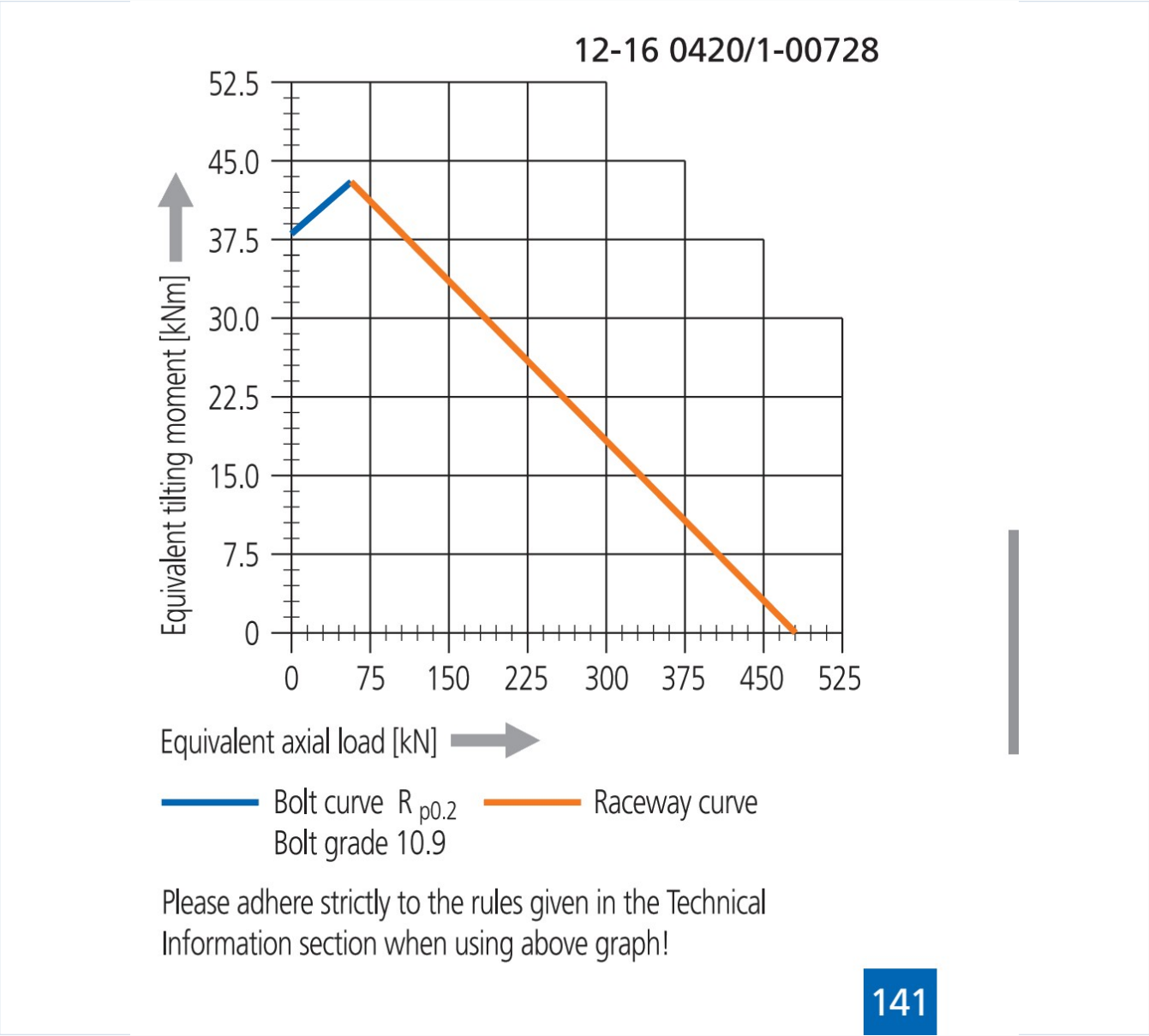
Complete Product Data

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

MOUNTING INTERFACES (CONTINUED)	
Inner ring mounting	16 holes - See source drawing
GEAR INTERFACE	
Pitch system	module
Module reference	4 mm
Number of teeth	66
SOURCE TRACEABILITY	
Source document code	IMO_OTHER_STANDARD_BALL_EN
Source file	imo_weitere_standard-kugeldrehverbindungen-en.pdf
PDF page	25
Printed page	Not published
Source language	EN
Original unit system	Metric
PUBLISHED TECHNICAL MEDIA	
Load Curve Chart	imo-12160420100728-curve.webp SHA-256: adc4584be3b386bf7a9311ef7e30a7db9a3b3d5b0442ffcc607e480ea7 1ddebb
Outline Drawing	imo-12160420100728-drawing.webp SHA-256: beac878143cae9d79a12217230c72dc71ee18e4aaa34ea30a1fbc452e3 c20da4

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.



imo-12160420100728-curve.webp | SHA-256: adc4584be3b386bf7a9311ef7e30a7db9a3b3d5b0442ffcc607e480ea71ddebb

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 YVGOI4R4JRVFMMNF43FQ3EWX3H	SOURCE DOCUMENT IMO_OTHER_STANDARD_BALL_EN
SOURCE FILE imo_weitere_standard-kugeldrehverbindungen-en.pdf	SOURCE LOCATION PDF page 25 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

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

Product page: <https://rotnex.com/products/slewing-bearing-replacements/imo/12-16-0420-1-00728/>

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