



Image may differ from product. See technical specification for details.

FY 511 M

Square flanged housing for insert bearings, cast iron

These square flanged housings for insert bearings are made of grey cast iron and can be bolted with four bolts to a machine wall or frame. They have been developed for bearing arrangements that must operate reliably in difficult environments.

- Resist high levels of contamination
- Accommodate relatively heavy loads

Overview

Dimensions

Spherical seating diameter	100 mm
Housing overall width	47.5 mm
Centre distance between bolt holes	130 mm

Properties

Housing type	Flanged
Flanged housing type	Square
Number of bolt holes for fasteners	4
Fastening bolt hole type	Plain
Material, housing	Cast iron
Coating	Without
Relubrication hole	With
Grease fitting	With

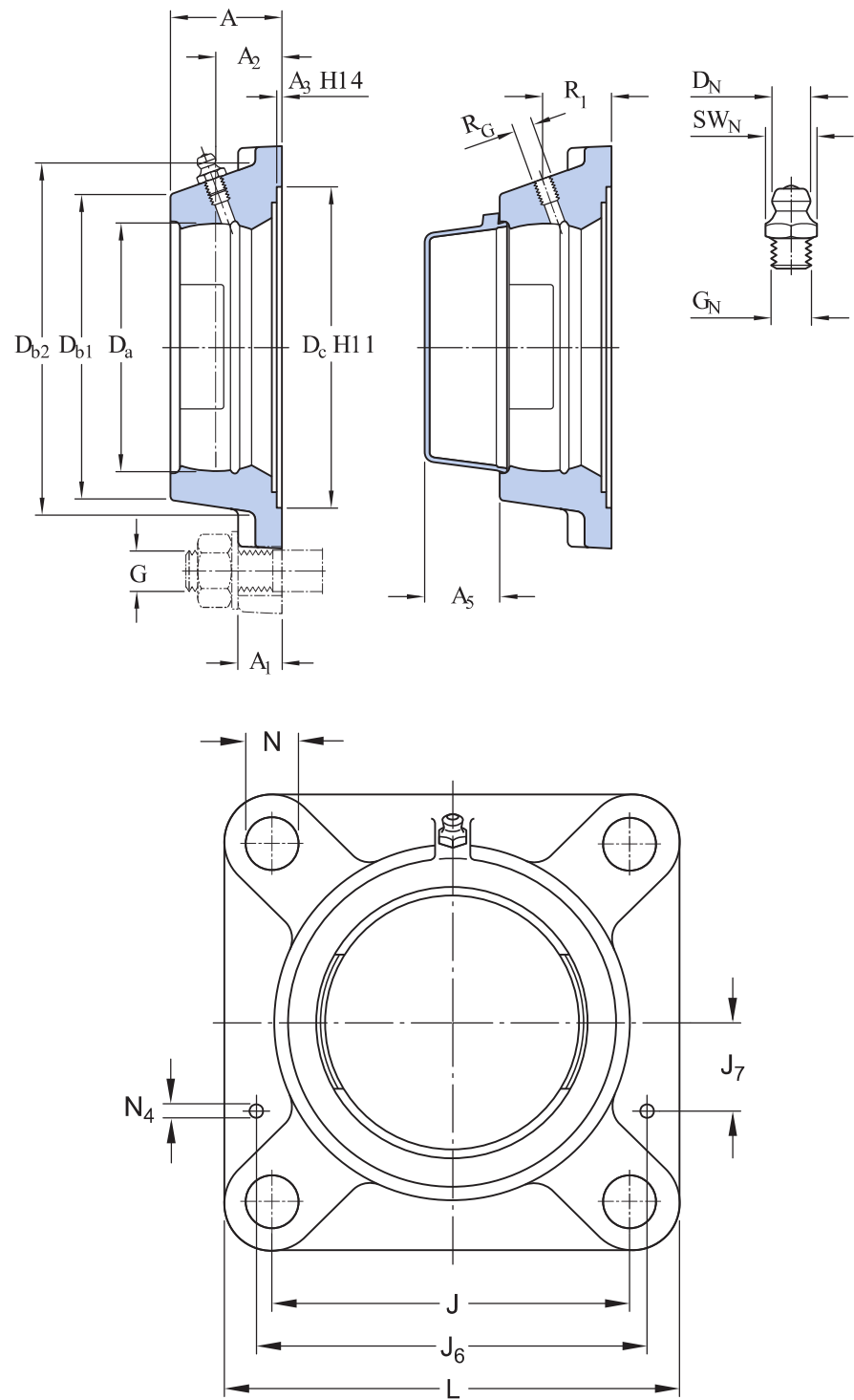
Logistics

Product net weight	2.28 kg
eClass code	23-05-08-02
UNSPSC code	31171536

Technical specification

Material

Cast iron



Dimensions

D _a	100 mm	Diameter of spherical seat
D _{b1}	122 mm	Top external diameter
D _{b2}	134 mm	Base external diameter
D _c	150.8 mm	Centring diameter
A	47.5 mm	Overall width
A ₁	16 mm	Flange width
A ₂	31 mm	Axial position of spherical seat (from support surface)
A ₃	3.2 mm	Depth of centring recess
A ₅	37.5 mm	Standout of end cover
J	130 mm	Centre distance between bolt holes
L	162 mm	Overall length
N	18 mm	Diameter of attachment bolt hole

GREASE FITTING

D _N	6.5 mm	Diameter of head sphere of grease fitting
SW _N	7 mm	Hexagonal key size for the grease fitting
G _N	1/4-28 SAE-LT	Thread of the grease fitting

DOWEL PINS

J ₆	148 mm	Distance of dowel pins
J ₇	45 mm	Axial offset of dowel pins
N ₄	4 mm	Recommended diameter for dowel pins

THREADED HOLE

R _G	1/4-28 UNF	Housing thread for grease fitting
R ₁	32 mm	Axial position of the housing thread

Mounting information

Recommended diameter for attachment bolts, mm	G	16 mm
Recommended diameter for attachment bolts, inch	G	0.625 in

Associated products

End cover	ECY 211
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Tolerances and clearances

The values depend on the included bearing:

- Bore diameter tolerance → [table 1](#)
- Radial internal clearance → [table 2](#)
- Recommended fit → [table 3](#)
- Shaft tolerance → [table 4](#)

Compatible products

Recommended product

End cover for bearing units

[ECY 211](#)

More Information

 Product details	 Engineering information	 Tools
Flanged units to ISO standards		SKF Product select
Flanged units to North American standards	 Principles of ball bearing units selection and application - Download catalogue (4.9 MB)	Bearing Frequency Calculator
Flanged units to Japanese Industrial Standards (JIS)	Principles of selecting mounted bearing solutions	
Flanged units, not standardized (SKF Food Line)	Bearing failure and how to prevent it	
Permissible misalignment		
Locating/non-locating support		
Loads		
Temperature limits		
Permissible speed		
Lubrication		
Mounting and dismounting		
Ordering information		
Designation system		



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