



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

FY 509 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	85 mm
Housing overall width	39 mm
Centre distance between bolt holes	105 mm

Properties

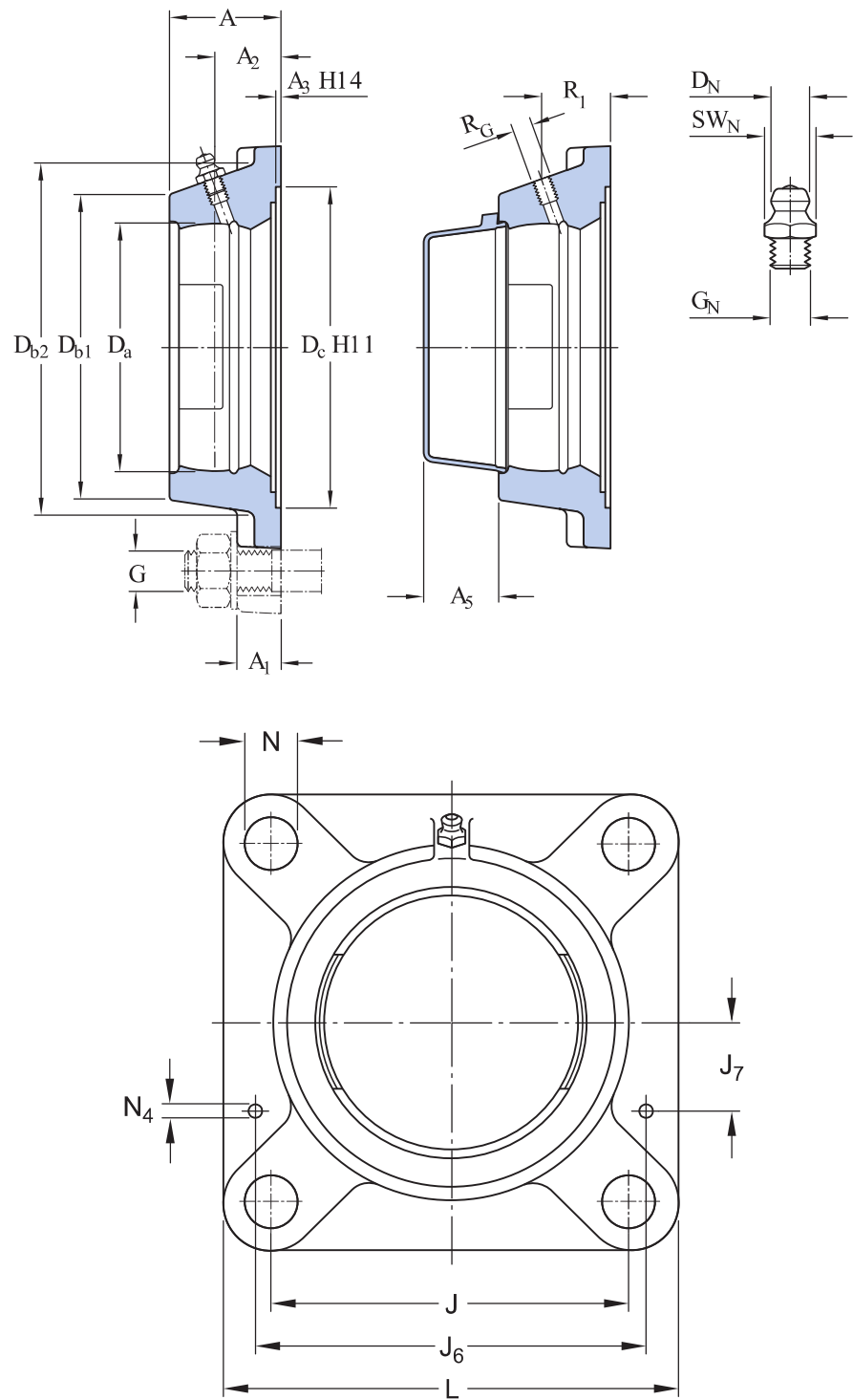
Housing type	Flanged
Flanged housing type	Square
Number of bolt holes for fasteners	4
Fastening bolt hole type	Plain
Material, housing	Cast iron
Coating	Without
Relubrication hole	With
Grease fitting	With

Logistics

Product net weight	1.23 kg
eClass code	23-05-08-02
UNSPSC code	31171536

Technical specification

Material	Cast iron
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Dimensions

D _a	85 mm	Diameter of spherical seat
D _{b1}	102 mm	Top external diameter
D _{b2}	112 mm	Base external diameter
D _c	119.1 mm	Centring diameter
A	39 mm	Overall width
A ₁	14 mm	Flange width
A ₂	24 mm	Axial position of spherical seat (from support surface)
A ₃	3.2 mm	Depth of centring recess
A ₅	26.5 mm	Standout of end cover
J	105 mm	Centre distance between bolt holes
L	137 mm	Overall length
N	16 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	123 mm	Distance of dowel pins
J ₇	33.5 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	24.5 mm	Axial position of the housing thread

Mounting information

Recommended diameter for attachment bolts, mm	G	14 mm
Recommended diameter for attachment bolts, inch	G	0.5625 in

Associated products

End cover	ECY 209
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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 209](#)

More Information

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