



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

FYJ 509

Square flanged housing for insert bearings, cast iron, JIS

These square flanged housings for insert bearings are compliant with Japanese Industrial Standards (JIS). They 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	38 mm
Centre distance between bolt holes	105 mm

Properties

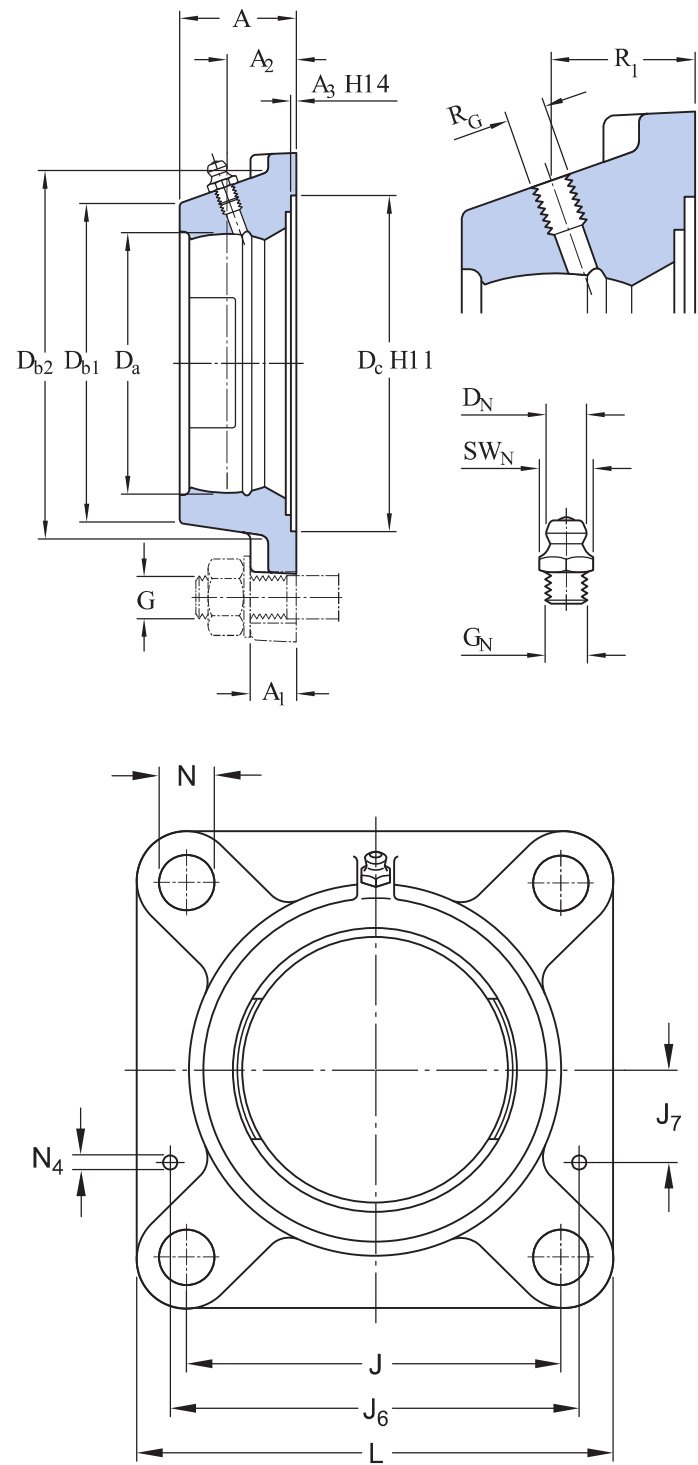
Housing type	Flanged
Flanged housing type	Square
Number of bolt holes for fasteners	4
Fastening bolt hole type	Plain
Material, housing	Cast iron
Coating	Without
Relubrication hole	With
Grease fitting	With

Logistics

Product net weight	1.47 kg
eClass code	23-05-16-02
UNSPSC code	31171536

Technical specification

Material	Cast iron
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Dimensions

D _a	85 mm	Diameter of spherical seat
D _{b1}	107 mm	Top external diameter
D _{b2}	108 mm	Base external diameter
D _c	119.1 mm	Centring diameter
A	38 mm	Overall width
A ₁	16 mm	Flange width
A ₂	21 mm	Axial position of spherical seat (from support surface)
A ₃	3.2 mm	Depth of centring recess
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	22 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

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](#)

More Information

 Product details	 Engineering information	 Tools
Flanged units to ISO standards	 Principles of ball bearing units selection and application - Download catalogue (4.9 MB)	SKF Product select
Flanged units to North American standards	Principles of selecting mounted bearing solutions	Bearing Frequency Calculator
Flanged units to Japanese Industrial Standards (JIS)		
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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