



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

## FY 512 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         | 110 mm |
| Housing overall width              | 52 mm  |
| Centre distance between bolt holes | 143 mm |

Properties

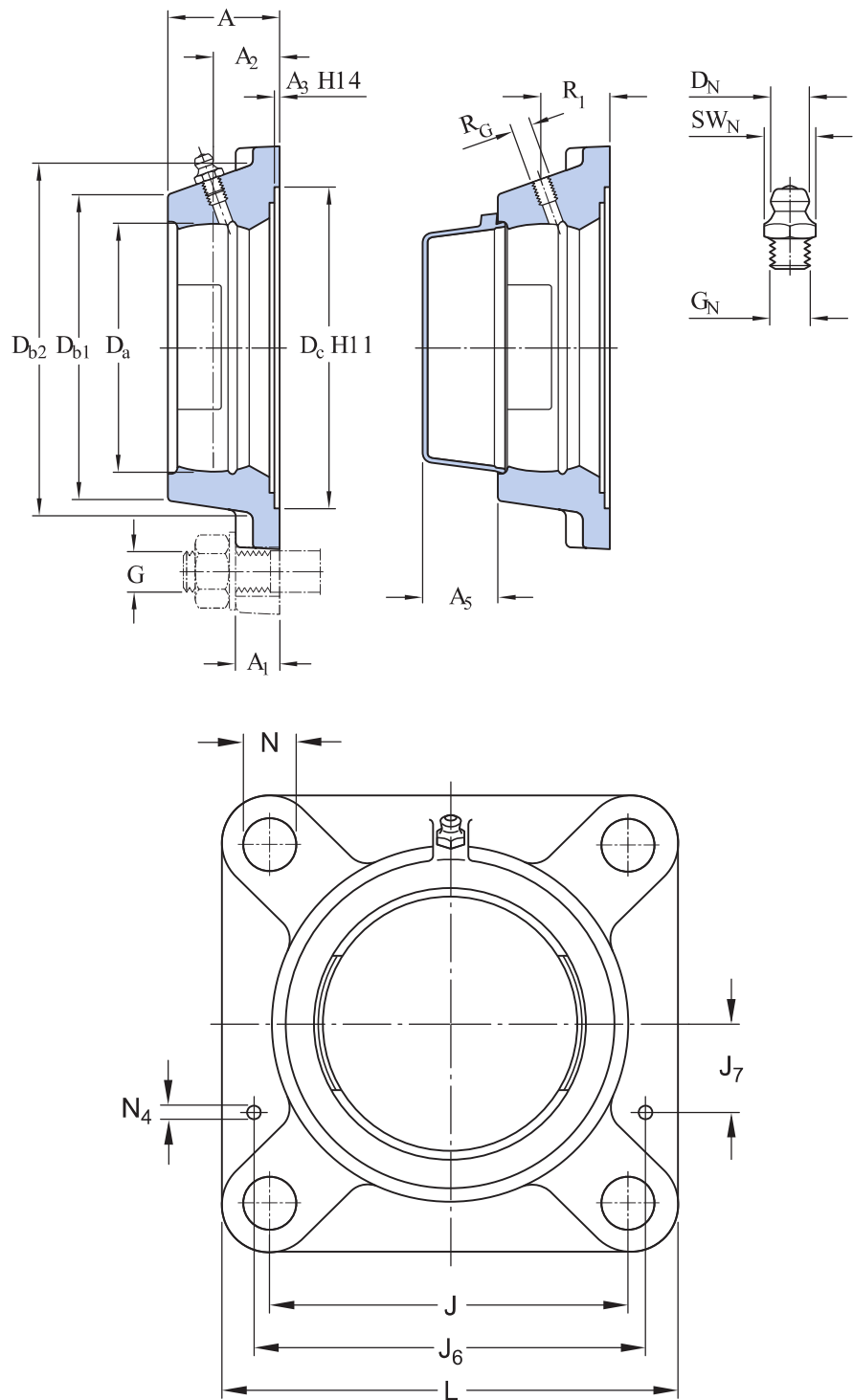
|                                    |           |
|------------------------------------|-----------|
| Housing type                       | Flanged   |
| Flanged housing type               | Square    |
| Number of bolt holes for fasteners | 4         |
| Fastening bolt hole type           | Plain 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

Logistics

|                    |             |
|--------------------|-------------|
| Product net weight | 2.58 kg     |
| eClass code        | 23-05-08-02 |
| UNSPSC code        | 31171536    |

Technical specification

|          |           |
|----------|-----------|
| Material | Cast iron |
|----------|-----------|



Dimensions

|                 |          |                                                         |
|-----------------|----------|---------------------------------------------------------|
| D <sub>a</sub>  | 110 mm   | Diameter of spherical seat                              |
| D <sub>b1</sub> | 130 mm   | Top external diameter                                   |
| D <sub>b2</sub> | 143 mm   | Base external diameter                                  |
| D <sub>c</sub>  | 161.9 mm | Centring diameter                                       |
| A               | 52 mm    | Overall width                                           |
| A <sub>1</sub>  | 17 mm    | Flange width                                            |
| A <sub>2</sub>  | 34 mm    | Axial position of spherical seat (from support surface) |
| A <sub>3</sub>  | 3.2 mm   | Depth of centring recess                                |
| A <sub>5</sub>  | 39 mm    | Standout of end cover                                   |
| J               | 143 mm   | Centre distance between bolt holes                      |
| L               | 175 mm   | Overall length                                          |
| N               | 18 mm    | Diameter of attachment bolt hole                        |

## THREADED HOLE

|                |            |                                      |
|----------------|------------|--------------------------------------|
| R <sub>G</sub> | 1/4-28 UNF | Housing thread for grease fitting    |
| R <sub>1</sub> | 34.5 mm    | Axial position of the housing thread |

## GREASE FITTING

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

## DOWEL PINS

|                |         |                                     |
|----------------|---------|-------------------------------------|
| J <sub>6</sub> | 161 mm  | Distance of dowel pins              |
| J <sub>7</sub> | 49.5 mm | Axial offset of dowel pins          |
| N <sub>4</sub> | 4 mm    | Recommended diameter for dowel pins |

## 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 212 |
|-----------|---------|

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

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End cover for bearing units

[ECY 212](#)

More Information

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