



# SNL 530 VSplit plummer (pillow) block housing, SNL 2, 3, 5 and 6 series

## Split plummer (pillow) block housing, SNL 2, 3, 5 and 6 series

SNL plummer (pillow) block housings are the most popular SKF bearing housings on the market, developed to be the first choice for design, quality and economy. They enable the incorporated bearings to achieve maximum service life with less need for maintenance. Different housing variants and seal designs are available, making the use of tailored housings virtually unnecessary and enabling cost-effective bearing arrangements to be made.

- Easy to install
- Cost-effective bearing arrangement
- Reduce maintenance
- Minimize lubricant leakage

## Overview

## Dimensions

|                                    |        |
|------------------------------------|--------|
| Diameter of bearing seat           | 270 mm |
| Width of bearing seat              | 106 mm |
| Centre height (pillow block)       | 160 mm |
| Centre distance between bolt holes | 450 mm |
| Attachment bolt diameter           | 30 mm  |

## Properties

|                                         |                         |
|-----------------------------------------|-------------------------|
| Housing type                            | Plummer/pillow block    |
| Housing configuration                   | Two-piece               |
| Mounting arrangement                    | Through shaft/Shaft end |
| Number of bolt holes for fasteners      | 2                       |
| Material, housing                       | Cast iron               |
| Bearing housing seal type               | Without                 |
| Housing lubrication feature/possibility | Grease                  |

# Technical Specification

## Dimensions

### Bearing seat

|       |        |                                          |
|-------|--------|------------------------------------------|
| $D_i$ | 270 mm | Diameter of bearing seat                 |
|       | G7     | Tolerance class of bearing seat diameter |
| $C_i$ | 106 mm | Width of bearing seat                    |
| $H_i$ | 160 mm | Centre height of bearing seat            |

### Outside dimensions

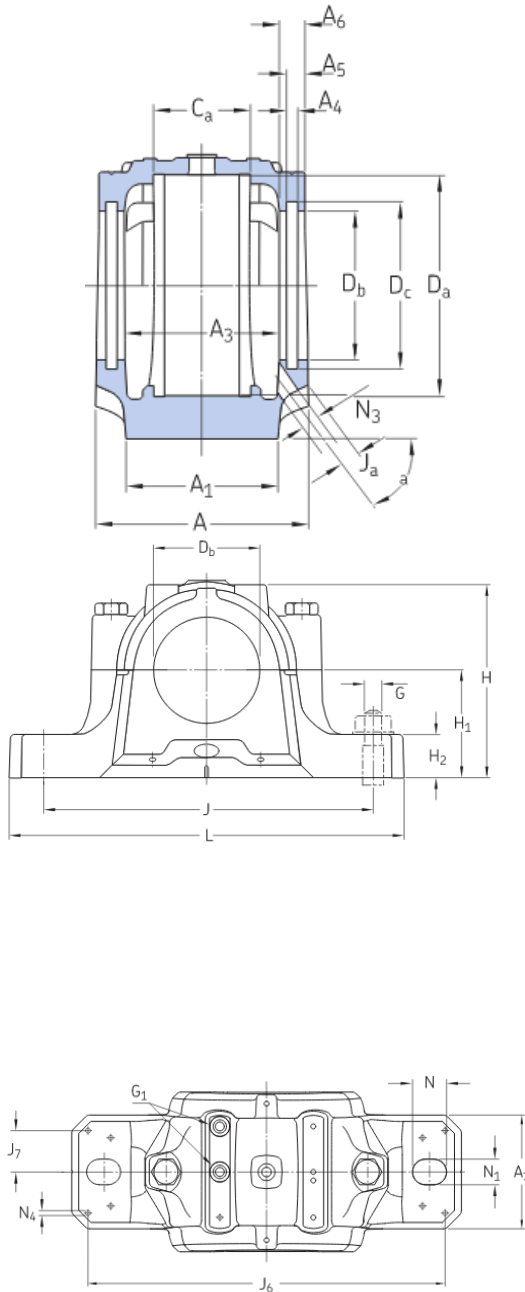
|       |             |                                   |
|-------|-------------|-----------------------------------|
| $D_b$ | 192.5 mm    | Bore diameter                     |
| $A$   | 220 mm      | Overall width                     |
| $A_1$ | 160 mm      | Foot width                        |
|       | 1/8-27 NPSF | Thread of relubrication holes     |
| $H$   | 323 mm      | Overall height                    |
| $H_2$ | 60 mm       | Foot height                       |
| $L$   | 530 mm      | Overall length                    |
| $J$   | 450 mm      | Distance between attachment bolts |
| $N$   | 42 mm       | Length of attachment bolt hole    |
| $N_1$ | 35 mm       | Width of attachment bolt hole     |

### Seal grooves

|              |          |                                   |
|--------------|----------|-----------------------------------|
| $A_z$        | 189 mm   | Inside width between seal grooves |
| $A_z$        | 6 mm     | Width of seal groove              |
| $A_\epsilon$ | 11 mm    | Distance to seal groove back face |
| $A_\epsilon$ | 15 mm    | Width at bore diameter            |
| $D_c$        | 202.5 mm | Diameter of seal groove           |

### Grease escape hole

|       |       |                                |
|-------|-------|--------------------------------|
| $J_a$ | 25 mm | Position of grease escape hole |
| $N_3$ | 20 mm | Diameter fo grease escape hole |



|          |      |                              |
|----------|------|------------------------------|
| $\alpha$ | 55 ° | Angle for grease escape hole |
|----------|------|------------------------------|

#### Dowel pins

|       |            |                             |
|-------|------------|-----------------------------|
| $J_6$ | 486 mm     | Distance between dowel pins |
| $J_7$ | 58 mm      | Axial offset of dowel pins  |
| $N_d$ | max. 12 mm | Diameter of dowel pins      |

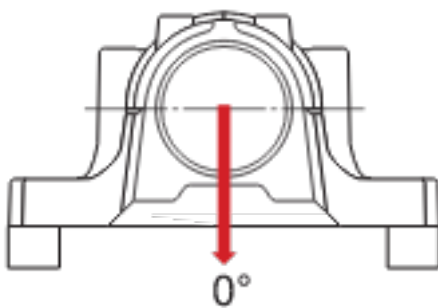
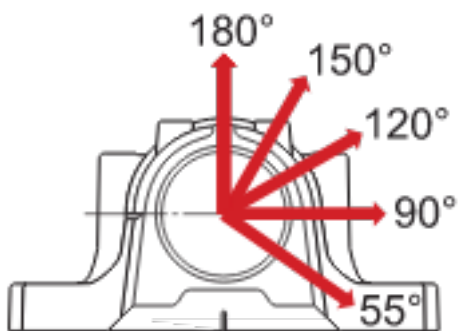
#### Calculation data

##### Breaking loads

|          |          |                                  |
|----------|----------|----------------------------------|
| $P_0$    | 1 100 kN | Breaking load at 0° load angle   |
| $P_5$    | 1 200 kN | Breaking load at 55° load angle  |
| $P_9$    | 730 kN   | Breaking load at 90° load angle  |
| $P_{12}$ | 540 kN   | Breaking load at 120° load angle |
| $P_{15}$ | 480 kN   | Breaking load at 150° load angle |
| $P_{18}$ | 600 kN   | Breaking load at 180° load angle |
| $P_a$    | 390 kN   | Breaking load, axial             |

##### Yield points of cap bolts

|          |        |                                              |
|----------|--------|----------------------------------------------|
| $Q_{12}$ | 900 kN | Load to reach yield point at 120° load angle |
| $Q_{15}$ | 520 kN | Load to reach yield point at 150° load angle |
| $Q_{18}$ | 450 kN | Load to reach yield point at 180° load angle |



## Materials

|                      |                                                                 |
|----------------------|-----------------------------------------------------------------|
| Housing material     | Cast iron                                                       |
| Corrosion protection | Paint - in accordance with ISO 12944-2, corrosivity category C2 |

## Mass

|              |       |
|--------------|-------|
| Mass housing | 49 kg |
|--------------|-------|

## Mounting information

|                                                    |   |           |
|----------------------------------------------------|---|-----------|
| Recommended diameter of attachment bolts           | G | 30 mm     |
| Recommended tightening torque for attachment bolts |   | 1 310 N·m |
| Size of cap bolts                                  |   | M24x130   |
| Tightening torque for cap bolts                    |   | 350 N·m   |
| Size of eye bolt                                   |   | M12       |
| Initial grease fill, 20%                           |   | 1 100 g   |
| Initial grease fill, 40%                           |   | 1 700 g   |

## Included products

|                |               |
|----------------|---------------|
| Grease fitting | AH 1/8-27 PTF |
|----------------|---------------|

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