

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

# SNL 3156

## Split plummer (pillow) block housing, SNL 30, 31 and 32 series

SNL plummer (pillow) block housings in the 30, 31 and 32 series are robust and suitable for tough operating conditions. 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 | 460 mm |
| Width of bearing seat | 166 mm |
| Centre height (pillow block) | 280 mm |
| Centre distance between bolt holes | 670 mm |
| Centre distance between bolt holes (axial direction) | 160 mm |
| Attachment bolt diameter | 36 mm |

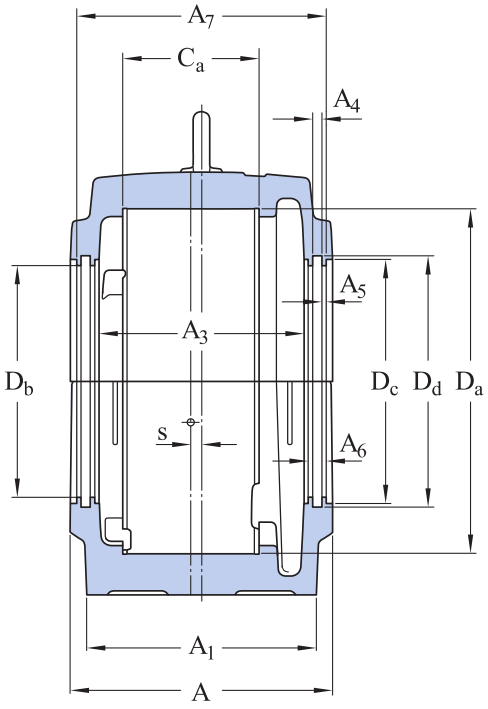
## Properties

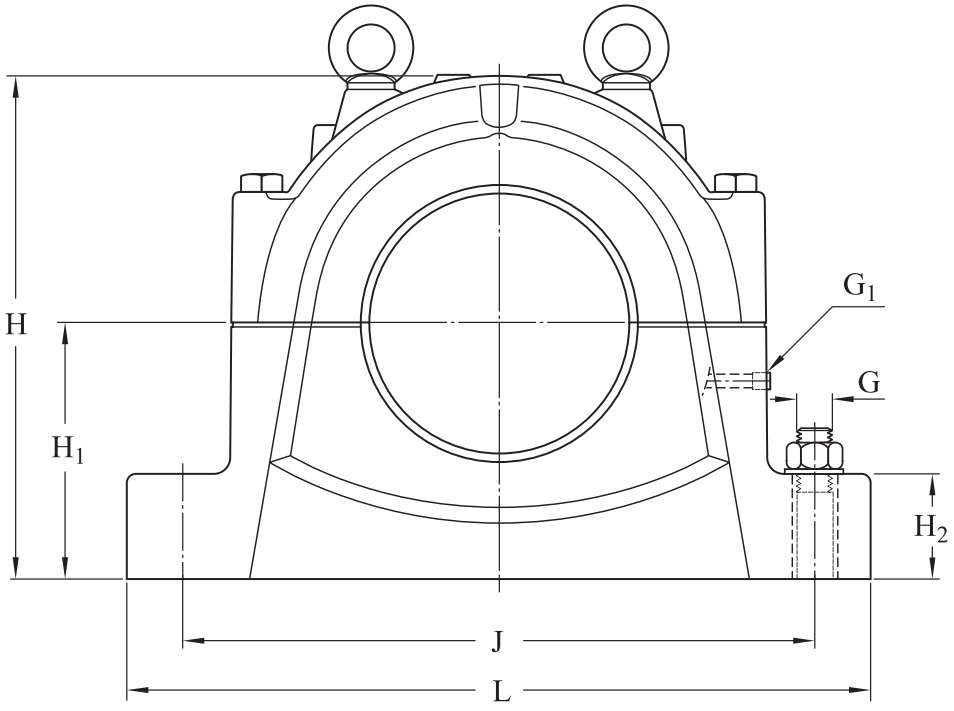
| | |
|---|---|
| Housing type | Plummer/pillow block |
| Housing configuration | Two-piece |
| Mounting arrangement | Through shaft/Shaft end |
| Number of bolt holes for fasteners | 4 |
| Material, housing | Cast iron |
| Bearing housing seal type | Without |
| Housing lubrication feature/possibility | Grease |

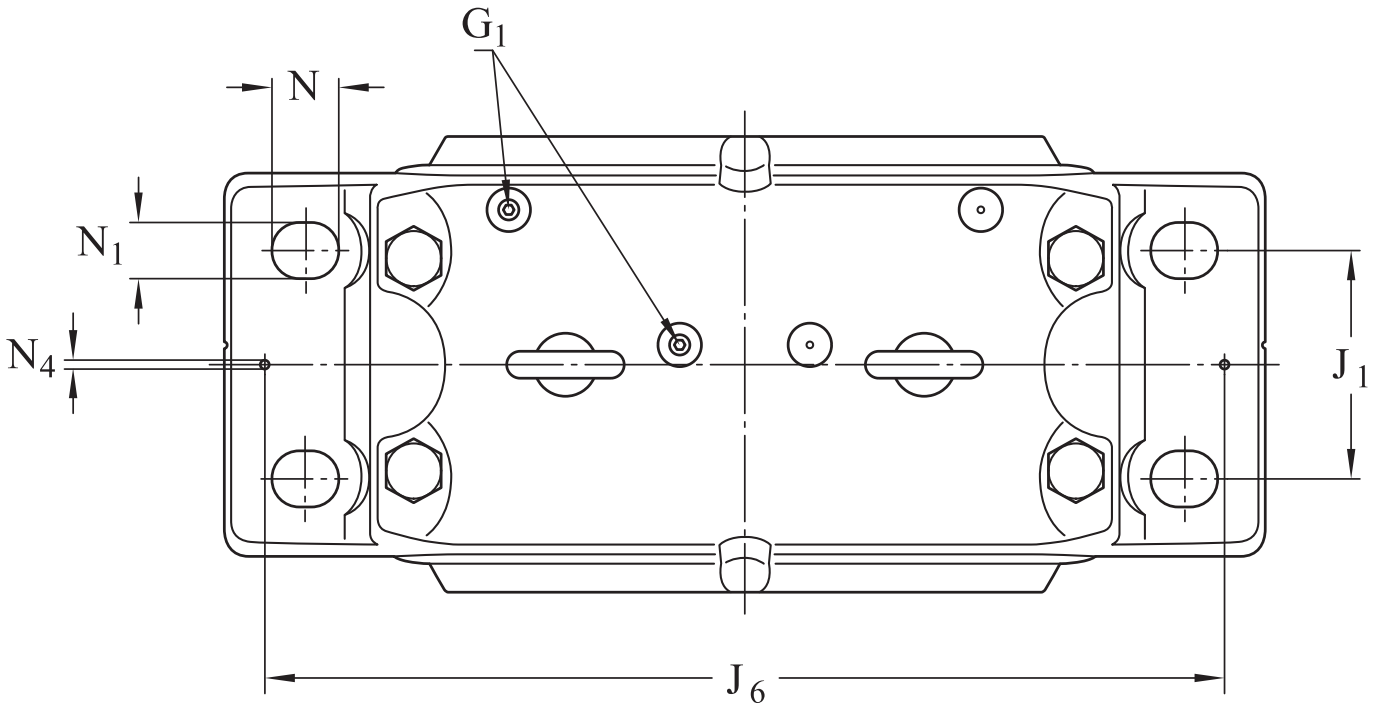
## Logistics

| | |
|---|---|
| Product net weight | 252 kg |
| eClass code | 23-05-17-01 |
| UNSPSC code | 31171519 |

## Technical specification






## Dimensions

### BEARING SEAT

| | | |
|---|---|---|
| $D_a$ | 460 mm | Diameter of bearing seat |
| | G7 | Tolerance class of bearing seat diameter |
| $C_a$ | 166 mm | Width of bearing seat |
| $H_1$ | 280 mm | Centre height of bearing seat |

### OUTSIDE DIMENSIONS

| | | |
|---|---|---|
| $D_b$ | 281.6 mm | Bore diameter |
| A | 320 mm | Overall width |
| $A_1$ | 280 mm | Foot width |
| $G_1$ | 1/8-27 NPSF | Thread of relubrication holes |
| H | 551 mm | Overall height |
| $H_2$ | 105 mm | Foot height |
| L | 790 mm | Overall length |
| J | 670 mm | Distance between attachment bolts |

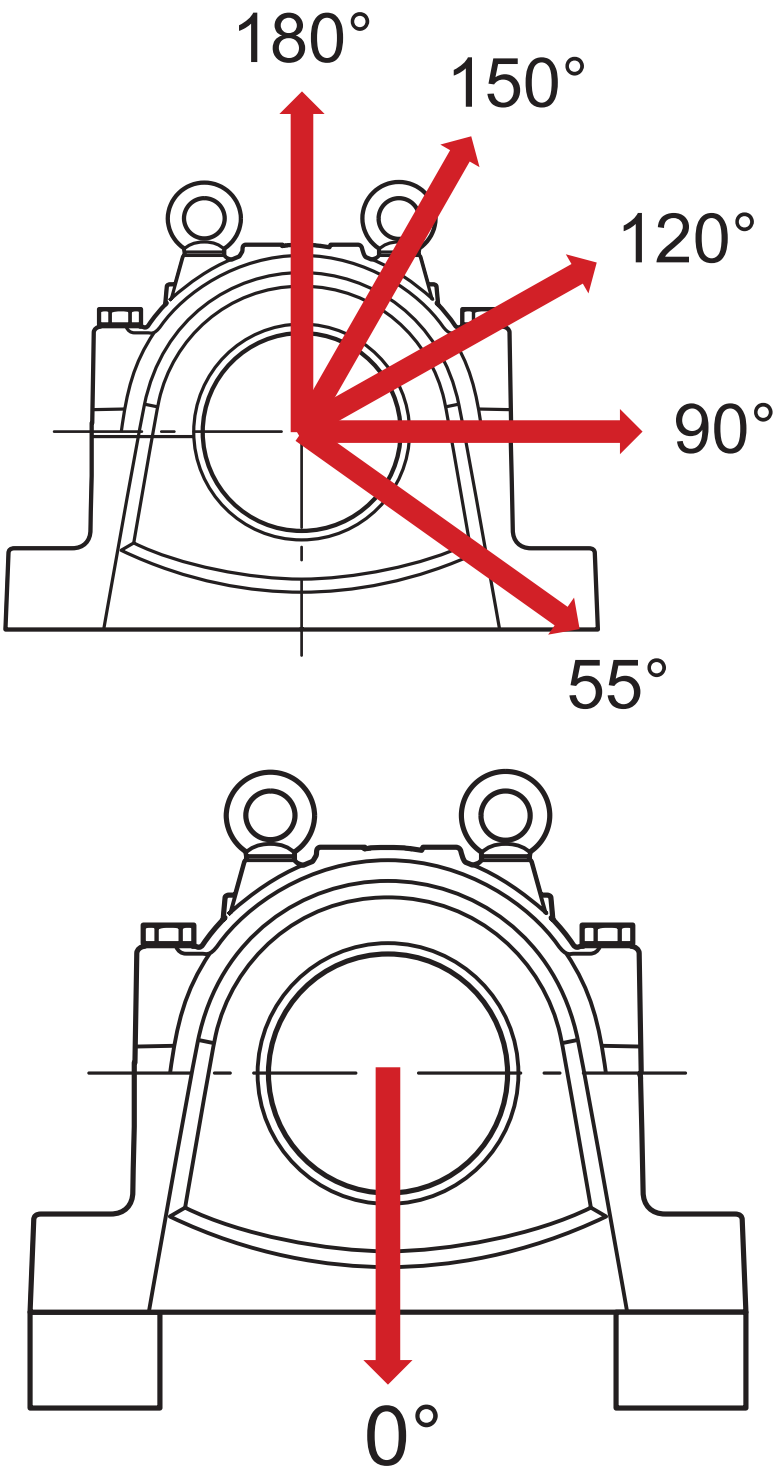
| | | |
|---|---|---|
| $J_1$ | 160 mm | Axial distance between attachment bolts |
| N | 50 mm | Length of attachment bolt hole (radial) |
| $N_1$ | 42 mm | Width of attachment bolt hole |
| s | 16 mm | Offset of bearing axis |

## SEAL GROOVES

| | | |
|---|---|---|
| $A_3$ | 249 mm | Inside width |
| $A_4$ | 11 mm | Width of seal groove |
| $A_5$ | 5.5 mm | Width of labyrinth stage |
| $A_6$ | 22 mm | Width of labyrinth |
| $A_7$ | 304 mm | Width between seal grooves |
| $D_c$ | 296.6 mm | Diameter of seal groove |
| $D_d$ | 305.6 mm | Diameter of seal groove |

## DOWEL PINS

| | | |
|---|---|---|
| $J_6$ | 740 mm | Distance between dowel pins |
| $N_4$ | 20 mm | Diameter of dowel pins |




## Calculation data

### BREAKING LOADS

| | | |
|---|---|---|
| $P_{0°}$ | 4 000 kN | Breaking load at 0° load angle (if the housing is not supported over its entire base) |

| | | |
|---|---|---|
| $P_{55°}$ | 5 000 kN | Breaking load at 55° load angle |
| $P_{90°}$ | 2 400 kN | Breaking load at 90° load angle |
| $P_{120°}$ | 1 800 kN | Breaking load at 120° load angle |
| $P_{150°}$ | 1 600 kN | Breaking load at 150° load angle |
| $P_{180°}$ | 2 000 kN | Breaking load at 180° load angle |
| $P_a$ | 1 300 kN | Breaking load, axial |

### YIELD POINTS OF CAP BOLTS

| | | |
|---|---|---|
| $Q_{120°}$ | 2 860 kN | Load to reach yield point at 120° load angle |
| $Q_{150°}$ | 1 650 kN | Load to reach yield point at 150° load angle |
| $Q_{180°}$ | 1 430 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 |

## Mounting information

| | | |
|---|---|---|
| Recommended diameter of attachment bolts | G | 36 mm |
| Recommended tightening torque for attachment bolts | | 2 280 N·m |
| Size of cap bolts | | M30x200 |
| Tightening torque for cap bolts | | 400 N·m |
| Size of eye bolt | | M24 |
| Initial grease fill, 20% | | 2.9 kg |
| Initial grease fill, 40% | | 4.4 kg |

## Included products

| | |
|---|---|
| Grease fitting | AH 1/8-27 PTF, M1 G 1/8 |
| Adapter | LAPN 1/8 |

# Compatible products

## Component

| | |
|---|---|
| Lubricator accessory reducer nipple for Single point automatic lubricators | LAPN 1/8 |

## More Information

### Designs and variants

- Standard housing design
- Housing variants
- Sealing solutions

### Product details

- Permissible misalignment
- Typical shaft-bearing combinations
- Locating/non-locating support
- Loads
- Temperature limits
- Permissible speed
- Lubrication
- Mounting
- Condition monitoring
- Associated products
- Ordering information
- Designation system

### Tools

- SKF Product select
- SKF Product select
- SimPro Quick
- Tool and Accessory Selector for sleeves and shafts
- LubeSelect for SKF greases
- Drive-up Method Program
- Heater selection tool
- Oil Injection Method Program

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