



# SNL 3144 Split plummer (pillow) block housing, SNL 30, 31 and 32 series

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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

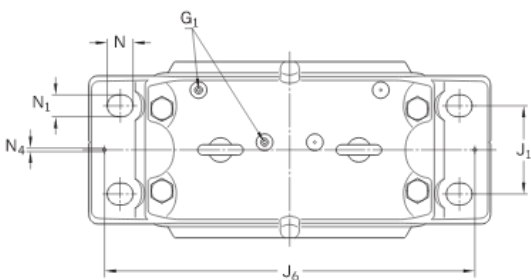
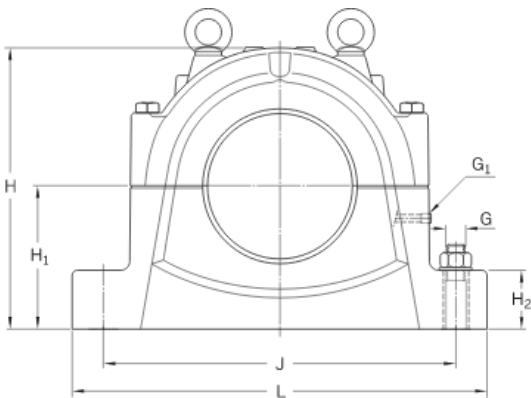
## Dimensions

Diameter of bearing seat	370 mm
Width of bearing seat	140 mm
Centre height (pillow block)	220 mm
Centre distance between bolt holes	540 mm
Centre distance between bolt holes (axial direction)	140 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	4
Material, housing	Cast iron
Bearing housing seal type	Without
Housing lubrication feature/possibility	Grease

# Technical Specification



## Dimensions

### Bearing seat

$D_a$	370 mm	Diameter of bearing seat
	G7	Tolerance class of bearing seat diameter
$C_a$	140 mm	Width of bearing seat
$H_1$	220 mm	Centre height of bearing seat

### Outside dimensions

$D_b$	221.4 mm	Bore diameter
A	290 mm	Overall width
$A_1$	240 mm	Foot width
$G_1$	1/8-27 NPSF	Thread of relubrication holes
H	434 mm	Overall height
$H_2$	90 mm	Foot height
L	640 mm	Overall length
J	540 mm	Distance between attachment bolts
$J_1$	140 mm	Axial distance between attachment bolts
N	42 mm	Length of attachment bolt hole (radial)
$N_1$	35 mm	Width of attachment bolt hole
s	12 mm	Offset of bearing axis

### Seal grooves

$A_3$	215 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
$A_7$	270 mm	Width between seal grooves
$D_c$	236.4 mm	Diameter of seal groove

$D_d$	245.4 mm	Diameter of seal groove
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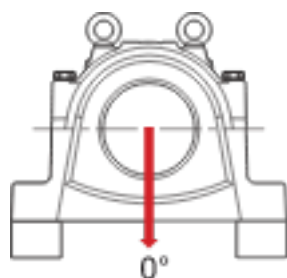
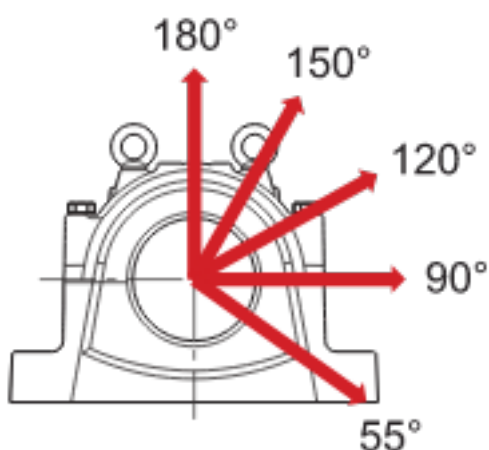
#### Dowel pins

$J_6$	590 mm	Distance between dowel pins
$N_4$	20 mm	Diameter of dowel pins

#### Calculation data

##### Breaking loads

$P_{0^\circ}$	3 100 kN	Breaking load at 0° load angle
$P_{55^\circ}$	4 000 kN	Breaking load at 55° load angle
$P_{90^\circ}$	1 900 kN	Breaking load at 90° load angle
$P_{120^\circ}$	1 400 kN	Breaking load at 120° load angle
$P_{150^\circ}$	1 300 kN	Breaking load at 150° load angle
$P_{180^\circ}$	1 600 kN	Breaking load at 180° load angle
$P_a$	1 000 kN	Breaking load, axial



##### Yield points of cap bolts

$Q_{12^\circ}$	1 800 kN	Load to reach yield point at 120° load angle
$Q_{15^\circ}$	1 040 kN	Load to reach yield point at 150° load angle
$Q_{18^\circ}$	900 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	139 kg
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## Mounting information

Recommended diameter of attachment bolts	G	30 mm
Recommended tightening torque for attachment bolts		1 310 N·m
Size of cap bolts		M24x160
Tightening torque for cap bolts		350 N·m
Size of eye bolt		M20
Initial grease fill, 20%		1.7 kg
Initial grease fill, 40%		2.7 kg

## Included products

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

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