

# F4BRP 215-SRB-SRH



## Round piloted flanged roller bearing unit, four-bolt, set screw locking

Four-bolt round piloted flange roller bearing units consist of a spherical roller bearing mounted in a cast iron housing that have a machined extension on one side to fit into a precise bulk head opening. The units are shaft-ready, pre-assembled and pre-greased, for installation right out of the box. Locating and non-locating variants can be specified while the standard set screw mounting accommodates rotation in both directions. End covers are optional.

- Ready to mount
- Enables precise locating
- Factory lubricated and sealed
- Long service life
- Minimal maintenance

## Overview

### Dimensions

Attachment bolt diameter	15.875 mm
Bearing width, total	92.075 mm
Housing overall width	79.375 mm
Overall width, total	98.425 mm
Pitch diameter of bolt holes of round and triangle flange type housing	190.5 mm
Shaft diameter	74.613 mm

### Performance

Basic dynamic load rating	158 kN
Basic static load rating	208 kN
Limiting speed	2 800 r/min

### Properties

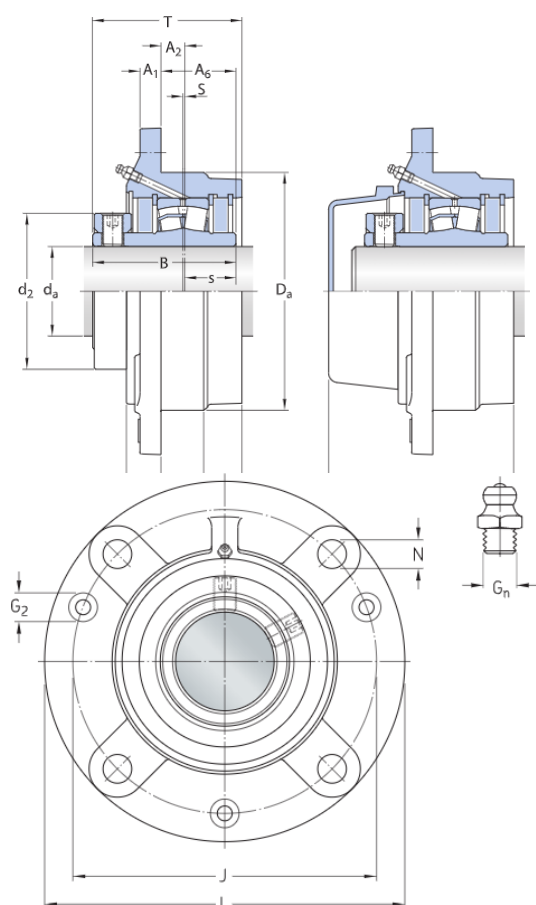
Bearing housing seal type	Radial lip seal
Bearing insert	Spherical roller bearing
Bearing position	Locating
Bore type	Cylindrical
Coating	Without
Flanged housing type	Round
Grease fitting	With
Housing type	Flanged, piloted
Lubricant	Grease

Material, bearing	Bearing steel
Material, housing	Cast iron
Number of bolt holes for fasteners	4
Relubrication hole	With
Retaining feature, inner ring	Set screws
Sealing, unit	Optional end cover

# Technical Specification

Metric/inch series	Inch
Bearing insert	Spherical roller bearing
Bearing position	Locating
Locking method	Set screws
Bearing housing seal type	Radial lip seal

## Dimensions



$d_a$	74.613 mm	Shaft diameter
$d_2$	111.125 mm	Collar outside diameter
$D_a$	161.925 mm	Hub diameter
A	79.375 mm	Housing height
$A_1$	17.463 mm	Housing flange height
$A_2$	20.638 mm	Centre line of free bearing
$A_3$	31.75 mm	Hub height
$A_4$	20.638 mm	Housing flange to machined flange face
$A_5$	120.65 mm	Width including end cover
$A_6$	51.594 mm	Flange face to inner ring face
B	92.075 mm	Inner ring width
J	190.5 mm	Bolt pitch diameter
L	222.25 mm	Housing outside diameter
N	17.463 mm	Bolt hole diameter
s	31.75 mm	Centre line unit to side face of inner ring
S	0.794 mm	Centre line of "fixed" bearing
T	98.425 mm	Overall unit width

## Grease fitting

$G_N$	1/4-28 UNF	Thread of grease fitting
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## Calculation data

Basic dynamic load rating	C	158 kN
Basic static load rating	C <sub>0</sub>	208 kN
Fatigue load limit	P <sub>u</sub>	23.6 kN
Limiting speed		2 800 r/min
Limiting value	e	0.22
Calculation factor	Y <sub>1</sub>	3
Calculation factor	Y <sub>2</sub>	4.6
Calculation factor	Y <sub>0</sub>	2.8
Bearing mean diameter	d <sub>m</sub>	102.616 mm
Axial holding force of the locking mechanism	P <sub>a</sub>	4 kN

## Mass

Mass bearing unit	8.85 kg
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## Mounting information

Attachment bolt diameter	G	15.875 mm
Set screws		1/2"-20 UNF-3A x 3/4"
Tightening torque for set screws		70.051 Nm
Grease quantity for relubrication		8 g
Tapped hole for push-out bolt	G <sub>2</sub>	5/8-11 UNC

## Associated products

End cover	ECY 215
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