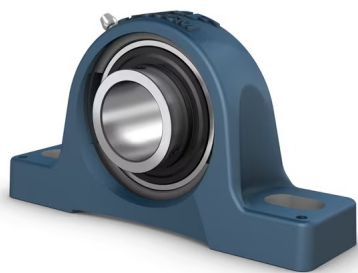


## SYJ 65 TF



Pillow block ball bearing unit with extended inner ring and set screw locking, cast iron, Japanese standards

Pillow (plummer) block ball bearing units consist of an insert bearing mounted in a cast iron housing that can be bolted to a support surface. This variant is suitable for applications with both constant and alternating directions of rotation. It has an inner ring extended on both sides and is locked onto the shaft by tightening a set screw on the inner ring, making it easy to mount.

- Strong
- Ready to mount
- Designed for a constant and alternating rotation
- Lubricated and sealed bearing
- Quick locking onto the shaft
- Cost-effective

## Overview

## Dimensions

|                                    |         |
|------------------------------------|---------|
| Shaft diameter                     | 65 mm   |
| Centre height (pillow block)       | 76.2 mm |
| Housing overall width              | 70 mm   |
| Centre distance between bolt holes | 203 mm  |
| Bearing width, total               | 68.3 mm |

## Performance

|                           |  |
|---------------------------|--|
| Basic dynamic load rating | 57.2 kN                                |
| Basic static load rating  | 40 kN                                  |
| Limiting speed            | 3 000 r/min                            |
| Note                      | Limiting speed with shaft tolerance h6 |

## Properties

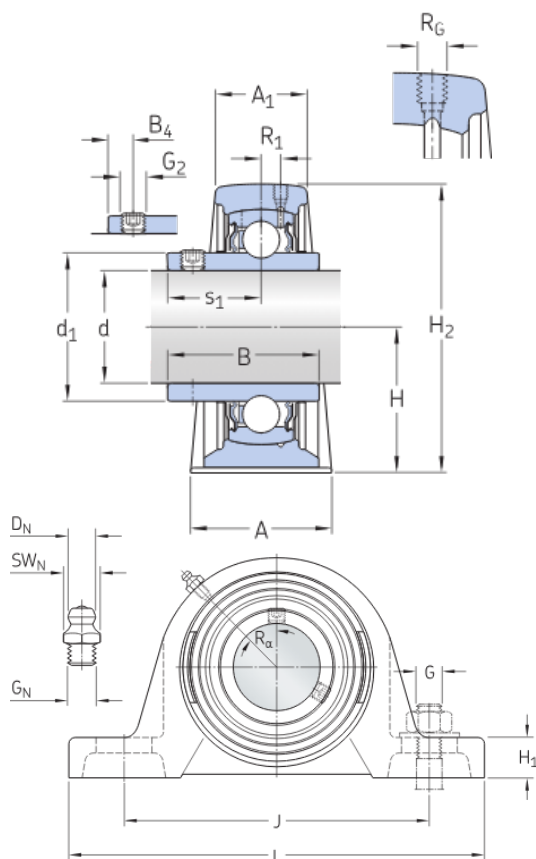
|                                    |                                |
|------------------------------------|--------------------------------|
| Housing type                       | Pillow block                   |
| Number of bolt holes for fasteners | 2                              |
| Fastening bolt hole type           | Plain                          |
| Retaining feature, inner ring      | Set screws                     |
| Bore type                          | Cylindrical                    |
| Rubber seating ring                | Without                        |
| Material, housing                  | Cast iron                      |
| Material, bearing                  | Bearing steel                  |
| Coating                            | Without                        |
| Sealing, bearing                   | Seal and flinger on both sides |

|                    |                   |
|--------------------|-------------------|
| Sealing type       | Contact, standard |
| Sealing, unit      | Without           |
| Lubricant          | Grease            |
| Relubrication hole | With              |
| Grease fitting     | With              |

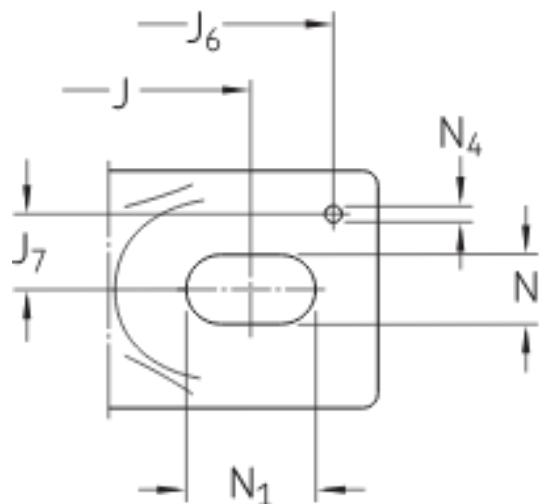
# Technical Specification

|                          |                                    |
|--------------------------|------------------------------------|
| Compliance with standard | JIS                                |
| Purpose specific         | For material handling applications |
| Material, housing        | Cast iron                          |
| Sealing, bearing         | Seal and flinger on both sides     |
| Sealing type, bearing    | Contact, standard                  |
| Sealing, unit            | Without                            |
| Coating                  | Without                            |

## Dimensions



|       |                   |   |
|-------|-------------------|---|
| $d$   | 65 mm             | Bore diameter   |
| $d_1$ | $\approx 82.5$ mm | Shoulder diameter of inner ring                         |
| $A$   | 70 mm             | Base width  |
| $A_1$ | 49 mm             | Top width   |
| $B$   | 68.3 mm           | Width of inner ring                                     |
| $B_1$ | 68.3 mm           | Overall bearing width                                   |
| $B_4$ | 10 mm             | Distance from locking device side face to thread centre |
| $H$   | 76.2 mm           | Height of spherical seat centre                         |
| $H_1$ | 27 mm             | Foot height   |
| $H_2$ | 150.5 mm          | Overall height  |
| $J$   | 203 mm            | Distance between attachment bolts                       |
| $J$   | max. 213 mm       | Distance between attachment bolts                       |
| $J$   | min. 193 mm       | Distance between attachment bolts                       |
| $L$   | 265 mm            | Overall length  |
| $N$   | 25 mm             | Diameter of attachment bolt hole                        |
| $N_1$ | 35 mm             | Length of attachment bolt hole                          |



|       |         |  |
|-------|---------|--|
| $s_1$ | 42.9 mm | Distance from locking device side face to raceway centre |
|-------|---------|--|

#### Threaded hole

|       |            |  |
|-------|------------|--|
| $R_G$ | 1/4-28 UNF | Housing thread for the grease fitting  |
| $R_1$ | 5.5 mm     | Axial position of the housing thread   |
| $R_0$ | 45 °       | Angular position of the housing thread |

#### Grease fitting

|       |               |   |
|-------|---------------|---|
| $D_f$ | 6.5 mm        | Diameter of head sphere of grease fitting |
| $S_f$ | 7 mm          | Hexagonal key size for the grease fitting |
| $G_f$ | 1/4-28 SAE-LT | Thread of grease fitting                  |

#### Dowel pins

|       |        |                                     |
|-------|--------|-------------------------------------|
| $J_6$ | 241 mm | Distance of dowel pins              |
| $J_7$ | 23 mm  | Axial offset of dowel pins          |
| $N_4$ | 4 mm   | Recommended diameter for dowel pins |

## Calculation data

|                           |       |  |
|---------------------------|-------|--|
| Basic dynamic load rating | C     | 57.2 kN                                |
| Basic static load rating  | $C_0$ | 40 kN                                  |
| Fatigue load limit        | $P_u$ | 1.7 kN                                 |
| Limiting speed            |       | 3 000 r/min                            |
|                           |       | Limiting speed with shaft tolerance h6 |

## Mass

|                   |        |
|-------------------|--------|
| Mass bearing unit | 5.8 kg |
|-------------------|--------|

## Mounting information

|   |                |          |
|---|----------------|----------|
| Set screw                                       | G <sub>2</sub> | M10x1    |
| Hexagonal key size for set screw                |                | 5 mm     |
| Recommended tightening torque for set screw     |                | 16.5 N·m |
| Recommended diameter for attachment bolts, mm   | G              | 20 mm    |
| Recommended diameter for attachment bolts, inch | G              | 0.75 in  |

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