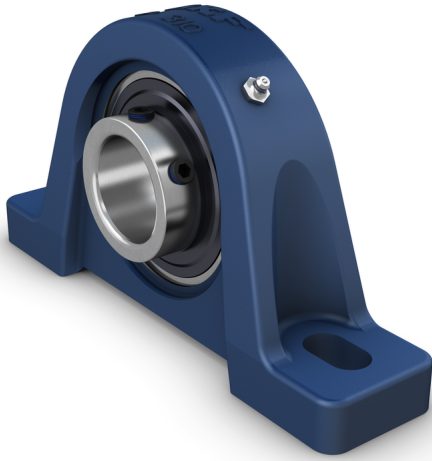


UCP 204

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



Overview

Dimensions

| | |
|------------------------------------|---------|
| Bearing width, total | 31 mm |
| Centre distance between bolt holes | 95 mm |
| Centre height (pillow block) | 33.3 mm |
| Housing overall width | 34 mm |
| Shaft diameter | 20 mm |

Properties

| | |
|------------------------------------|---------------|
| Bore type | Cylindrical |
| Coating | Without |
| Fastening bolt hole type | Plain |
| Housing type | Pillow block |
| Lubricant | Grease |
| Material, bearing | Bearing steel |
| Material, housing | Cast iron |
| Number of bolt holes for fasteners | 2 |
| Relubrication hole | With |
| Relubrication nipple | With |
| Retaining feature, inner ring | Set screws |
| Rubber seating ring | Without |

Performance

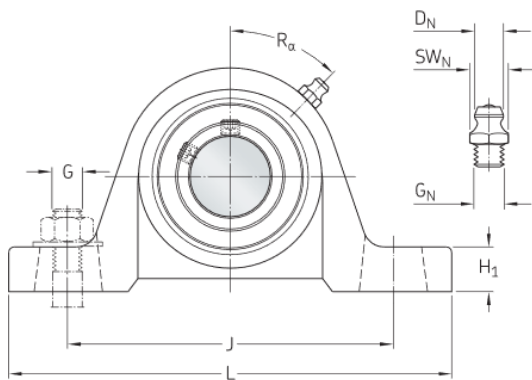
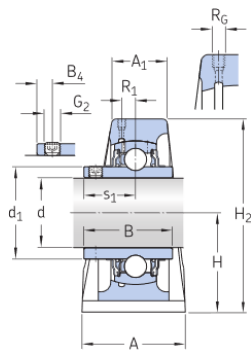
| | |
|---------------------------|-------------|
| Basic dynamic load rating | 12.7 kN |
| Basic static load rating | 6.7 kN |
| Limiting speed | 6 500 r/min |

| | |
|------------------|--------------------------------|
| Sealing type | Contact, standard |
| Sealing, bearing | Seal and flinger on both sides |
| Sealing, unit | Without |

Technical Specification

| | |
|--------------------------|---|
| Compliance with standard | JIS |
| Purpose specific | For material handling applications |
| Housing material | Cast iron |
| Sealing solution | Standard seals with additional flingers |

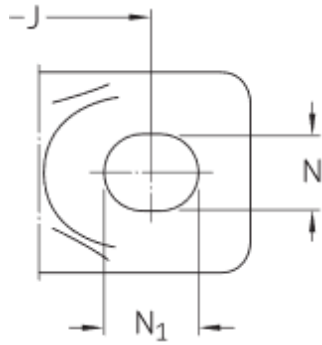
Dimensions



| | | |
|----------------|-------------|--|
| d | 20 mm | Bore diameter |
| d ₁ | ≈ 28.7 mm | Shoulder diameter inner ring |
| A | 34 mm | Base width |
| A ₁ | 23 mm | Top width |
| B | 31 mm | Width of inner ring |
| B ₄ | 5 mm | Distance from locking device side face to thread centre |
| H | 33.3 mm | Height of spherical seat centre |
| H ₁ | 13.5 mm | Foot height |
| H ₂ | 64.5 mm | Overall height |
| J | 95 mm | Distance between attachment bolts |
| J | max. 100 mm | Distance between attachment bolts |
| J | min. 90 mm | Distance between attachment bolts |
| L | 127 mm | Overall length |
| N | 13 mm | Diameter of attachment bolt hole |
| N ₁ | 18 mm | Length of attachment bolt hole |
| s ₁ | 18.3 mm | Distance from locking device side face to raceway centre |

Threaded hole

| | | |
|----------------|------------|---------------------------------------|
| R _C | 1/4-28 UNF | Housing thread for the grease fitting |
|----------------|------------|---------------------------------------|



| | |
|------------|--|
| R_1 2 mm | Axial position of the housing thread |
| R_0 45 ° | Angular position of the housing thread |

Grease fitting

| | |
|------------------|---|
| D_f 6.6 mm | Diameter of head sphere of grease fitting |
| S_f 7.94 mm | Hexagonal key size for the grease fitting |
| G_f 1/4-28 UNF | Thread of grease fitting |

Calculation data

| | | |
|---------------------------|-------|-------------|
| Basic dynamic load rating | C | 12.7 kN |
| Basic static load rating | C_0 | 6.7 kN |
| Fatigue load limit | P_u | 0.285 kN |
| Limiting speed | | 6 500 r/min |
| with shaft tolerance h6 | | |

Mass

| | |
|-------------------|--------|
| Mass bearing unit | 0.6 kg |
|-------------------|--------|

Mounting information

| | | |
|---|-------|----------|
| Set screw | G_2 | M6x1 |
| Hexagonal key size for set screw | | 3.05 mm |
| Recommended tightening torque for set screw | | 4 Nm |
| Recommended diameter for attachment bolts, mm | G | 10 mm |
| Recommended diameter for attachment bolts, inch | G | 0.375 in |

Included products

| | |
|---------|---------|
| Housing | P 204/Y |
| Bearing | UC 204 |

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