

SY 2. TF



NOT FOUND

Pillow block ball bearing unit with extended inner ring and set screw locking, cast iron, ISO 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
- Lubricated and sealed bearing
- Quick locking onto the shaft
- Cost-effective

Overview

Dimensions

| | |
|------------------------------------|----------|
| Bearing width, total | 2.189 in |
| Centre distance between bolt holes | 6.752 in |
| Centre height (pillow block) | 2.5 in |
| Housing overall width | 2.362 in |
| Shaft diameter | 2 in |

Performance

| | |
|---------------------------|--|
| Basic dynamic load rating | 9 802 lbf |
| Basic static load rating | 6 519 lbf |
| Limiting speed | 3 600 r/min |
| Note | Limiting speed with shaft tolerance h6 |

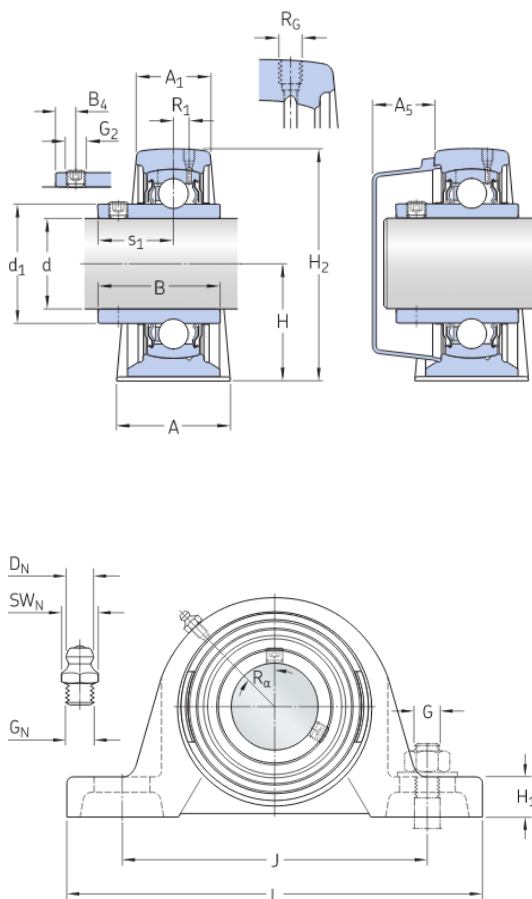
Properties

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

| | |
|---------------------|--------------------------------|
| Rubber seating ring | Without |
| Sealing type | Contact, standard |
| Sealing, bearing | Seal and flinger on both sides |
| Sealing, unit | Optional end cover |

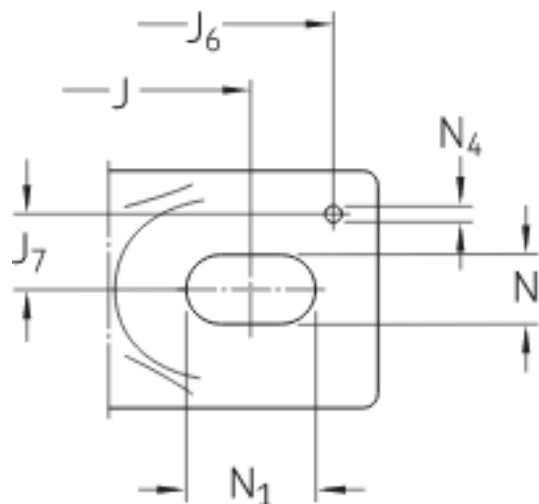
Technical Specification

| | |
|--------------------------|------------------------------------|
| Compliance with standard | ISO |
| 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 | Optional end cover |
| Coating | Without |



Dimensions

| | | |
|----------------|---------------|--|
| d | 2 in | Bore diameter |
| d ₁ | ≈ 2.719 in | Shoulder diameter of inner ring |
| A | 2.362 in | Base width |
| A ₁ | 1.575 in | Top width |
| A ₅ | 1.476 in | Standout of end cover |
| B | 2.189 in | Width of inner ring |
| B ₄ | 0.354 in | Distance from locking device side face to thread centre |
| H | 2.5 in | Height of spherical seat centre |
| H ₁ | 0.945 in | Foot height |
| H ₂ | 4.961 in | Overall height |
| J | 6.752 in | Distance between attachment bolts |
| J | max. 7.126 in | Distance between attachment bolts |
| J | min. 6.378 in | Distance between attachment bolts |
| L | 8.622 in | Overall length |
| N | 0.709 in | Diameter of attachment bolt hole |
| N ₁ | 1.083 in | Length of attachment bolt hole |
| s ₁ | 1.315 in | 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 0.177 in | Axial position of the housing thread |
| R_0 45 ° | Angular position of the housing thread |

Grease fitting

| | |
|---------------------|---|
| D_1 0.256 in | Diameter of head sphere of grease fitting |
| S_1 0.276 in | Hexagonal key size for the grease fitting |
| G_1 1/4-28 SAE-LT | Thread of grease fitting |

Dowel pins

| | |
|----------------|-------------------------------------|
| J_6 7.913 in | Distance of dowel pins |
| J_7 0.827 in | Axial offset of dowel pins |
| N_4 0.157 in | Recommended diameter for dowel pins |

Calculation data

| | | |
|---------------------------|-------|--|
| Basic dynamic load rating | C | 9 802 lbf |
| Basic static load rating | C_0 | 6 519 lbf |
| Fatigue load limit | P_u | 281 lbf |
| Limiting speed | | 3 600 r/min |
| | | Limiting speed with shaft tolerance h6 |

Mass

| | |
|-------------------|----------|
| Mass bearing unit | 7.826 lb |
|-------------------|----------|

Mounting information

| | | |
|----------------------------------|-------|------------|
| Set screw | G_2 | 3/8-24 UNF |
| Hexagonal key size for set screw | | 0.188 in |

| | | |
|---|---|----------------|
| Recommended tightening torque for set screw | | 146.037 lbf-in |
| Recommended diameter for attachment bolts, mm | G | 16.002 mm |
| Recommended diameter for attachment bolts, inch | G | 0.625 in |

Included products

| | | |
|---------|--|----------------|
| Housing | | SY 511 M |
| Bearing | | YAR 211-200-2F |

Associated products

| | | |
|-----------|--|---------|
| End cover | | ECY 211 |
|-----------|--|---------|

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