

P2BSS 40M-TPSS Pillow block ball bearing unit with extended inner ring and set screw locking, stainless steel

Pillow block ball bearing unit with extended inner ring and set screw locking, stainless steel

Pillow (plummer) block ball bearing units consist of an insert bearing mounted in a stainless-steel housing. They have a good corrosion resistance, and are suitable for applications with both constant and alternating directions of rotation. They have an inner ring extended on both sides and are locked onto the shaft by tightening a set screw on the inner ring, making them easy to mount.

- Ready to mount
- Designed for a constant and alternating rotation
- Good corrosion resistance
- Lubricated and sealed bearing
- Quick locking onto the shaft

Overview

Dimensions

| | |
|------------------------------------|----------|
| Shaft diameter | 40 mm |
| Centre height (pillow block) | 49.2 mm |
| Housing overall width | 42 mm |
| Centre distance between bolt holes | 135.7 mm |
| Bearing width, total | 49.2 mm |

Performance

| | |
|---------------------------|--|
| Basic dynamic load rating | 24.7 kN |
| Basic static load rating | 19 kN |
| Limiting speed | 2 800 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 | Stainless steel |

| | |
|--------------------|--------------------------------|
| Material, bearing | Stainless steel |
| Coating | Without |
| Sealing, bearing | Seal and flinger on both sides |
| Sealing type | Contact, gutter |
| Sealing, unit | Optional end cover |
| Lubricant | Grease |
| Relubrication hole | Without |
| Grease fitting | Without |

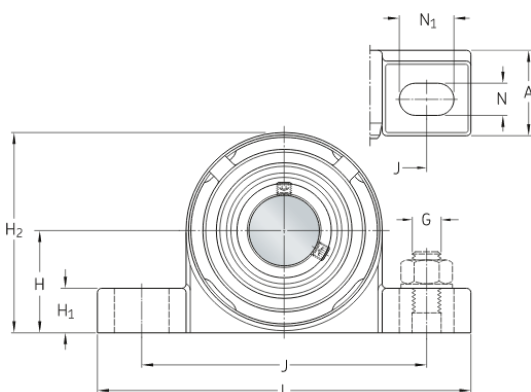
Technical Specification

| | |
|--------------------------|------------------------------------|
| Compliance with standard | Not standardized |
| Purpose specific | For food and beverage applications |
| Material, housing | Stainless steel |
| Sealing, bearing | Seal and flinger on both sides |
| Sealing type, bearing | Contact, gutter |
| Sealing, unit | Optional end cover |
| Coating | Without |



Dimensions

| | | |
|-------|-------------------|---|
| d | 40 mm | Bore diameter |
| d_1 | ≈ 51.8 mm | Shoulder diameter of inner ring |
| D_c | 88 mm | Centring diameter |
| H_a | 6.2 mm | Groove height for backseal |
| A | 42 mm | Base width |
| A_1 | 48 mm | Top width |
| A_5 | 77.9 mm | Width including end cover |
| B | 49.2 mm | Width of inner ring |
| B_4 | 10 mm | Distance from locking device side face to thread centre |
| H | 49.2 mm | Height of spherical seat centre |
| H_1 | 19 mm | Foot height |
| H_2 | 97 mm | Overall height |
| J | 135.7 mm | Distance between attachment bolts |
| J | max. 146 mm | Distance between attachment bolts |
| J | min. 125.4 mm | Distance between attachment bolts |
| L | 174.5 mm | Overall length |



| | | |
|----------------|---------|--|
| N | 14.5 mm | Diameter of attachment bolt hole |
| N ₁ | 24.5 mm | Length of attachment bolt hole |
| s ₁ | 30.2 mm | Distance from locking device side face to raceway centre |

Calculation data

| | | |
|---------------------------|----------------|--|
| Basic dynamic load rating | C | 24.7 kN |
| Basic static load rating | C ₀ | 19 kN |
| Fatigue load limit | P _u | 0.8 kN |
| Limiting speed | | 2 800 r/min |
| | | Limiting speed with shaft tolerance h6 |

Mass

| | |
|-------------------|---------|
| Mass bearing unit | 2.05 kg |
|-------------------|---------|

Mounting information

| | | |
|---|----------------|---------|
| Set screw | G ₂ | M8x1 |
| Hexagonal key size for set screw | | 4 mm |
| Recommended tightening torque for set screw | | 6.5 N·m |
| Recommended diameter for attachment bolts, mm | G | 12 mm |
| Recommended diameter for attachment bolts, inch | G | 0.5 in |

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