



## SKF SY 30 FM

Pillow block ball bearing unit with narrow inner ring and eccentric locking collar,

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 intended for use in applications where the direction of rotation is constant. It has a narrow inner ring and is locked onto the shaft by an eccentric locking collar, making it easy to mount.

### Technical specifications

| General                  |                                    |
|--------------------------|------------------------------------|
| Compliance with standard | ISO                                |
| Purpose specific         | For material handling applications |
| Material, housing        | Cast iron                          |
| Sealing, bearing         | Seal on both sides                 |
| Sealing type, bearing    | Contact, standard                  |
| Sealing, unit            | Optional end cover                 |
| Coating                  | Without                            |

  

| Dimensions                                               |               |
|----------------------------------------------------------|---------------|
| Bore diameter                                            | 30 mm         |
| Shoulder diameter of inner ring                          | 39.7 mm       |
| Outside diameter of locking ring                         | 44.1 mm       |
| Base width                                               | 40 mm         |
| Top width                                                | 25 mm         |
| Standout of end cover                                    | 22.5 mm       |
| Width of inner ring                                      | 23.8 mm       |
| Overall bearing width                                    | 35.7 mm       |
| Distance from locking device side face to thread centre  | 5.95 mm       |
| Height of spherical seat centre                          | 42.9 mm       |
| Foot height                                              | 17 mm         |
| Overall height                                           | 82 mm         |
| Distance between attachment bolts                        | 117.5 mm      |
| Maximum distance between attachment bolts                | 127 mm        |
| Minimum distance between attachment bolts                | 108 mm        |
| Overall length                                           | 152 mm        |
| Diameter of attachment bolt hole                         | 14 mm         |
| Length of attachment bolt hole                           | 23.5 mm       |
| Distance from locking device side face to raceway centre | 26.7 mm       |
| Housing thread for the grease fitting                    | 1/4-28 UNF    |
| Axial position of the housing thread                     | 3 mm          |
| Angular position of the housing thread                   | 45 °          |
| Diameter of head sphere of grease fitting                | 6.5 mm        |
| Hexagonal key size for the grease fitting                | 7 mm          |
| Thread of grease fitting                                 | 1/4-28 SAE-LT |
| Distance of dowel pins                                   | 140 mm        |
| Axial offset of dowel pins                               | 14 mm         |
| Recommended diameter for dowel pins                      | 4 mm          |
| Attachment bolt diameter                                 | 12 mm         |
| Shaft diameter                                           | 30 mm         |
| Centre height (pillow block)                             | 42.9 mm       |
| Housing overall width                                    | 40 mm         |
| Centre distance between bolt holes                       | 117.5 mm      |
| Bearing width, total                                     | 35.7 mm       |

  

| Calculation data          |         |
|---------------------------|---------|
| Basic dynamic load rating | 19.5 kN |
| Basic static load rating  | 11.2 kN |

|                    |                                        |
|--------------------|----------------------------------------|
| Fatigue load limit | 0.475 kN                               |
| Limiting speed     | 6300 r/min                             |
|                    | Limiting speed with shaft tolerance h6 |

| Mounting information                            |         |
|-------------------------------------------------|---------|
| Set screw                                       | 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   | 12 mm   |
| Recommended diameter for attachment bolts, inch | 0.5 in  |

| Performance               |                                        |
|---------------------------|----------------------------------------|
| Basic dynamic load rating | 19.5 kN                                |
| Basic static load rating  | 11.2 kN                                |
| Limiting speed            | 6300 r/min                             |
| Note                      | Limiting speed with shaft tolerance h6 |

| Properties                         |                           |
|------------------------------------|---------------------------|
| Housing type                       | Pillow block, normal base |
| Number of bolt holes for fasteners | 2                         |
| Fastening bolt hole type           | Plain                     |
| Retaining feature, inner ring      | Eccentric collar          |
| Bore type                          | Cylindrical               |
| Rubber seating ring                | Without                   |
| Material, housing                  | Cast iron                 |
| Material, bearing                  | Bearing steel             |
| Coating                            | Without                   |
| Sealing, bearing                   | Seal on both sides        |
| Sealing type                       | Contact, standard         |
| Sealing, unit                      | Optional end cover        |
| Lubricant                          | Grease                    |
| Relubrication hole                 | With                      |
| Grease fitting                     | With                      |

| Logistics          |             |
|--------------------|-------------|
| Product net weight | 1.1 kg      |
| eClass code        | 23-05-08-02 |
| UNSPSC code        | 31171536    |

# SKF drawings



