

# PBMF 506050 M1G1Solid bronze

## flanged bushing

### Solid bronze flanged bushing



SKF solid bronze flanged bushings are suitable for oscillating, rotating and linear movements, and can accommodate radial loads as well as axial loads in one direction. They are designed for a wide variety of operating conditions and applications in tough environments.

- Insensitive to dirty environments
- Resistant to impact loads and vibrations at low speeds
- Operate with lower quality shaft finish
- Good corrosion resistance

## Overview

### Dimensions

|                  |       |
|------------------|-------|
| Bore diameter    | 50 mm |
| Outside diameter | 60 mm |
| Width            | 50 mm |
| Flange diameter  | 70 mm |
| Flange thickness | 6 mm  |

## Properties

|                       |              |
|-----------------------|--------------|
| Design                | Flanged      |
| Material              | Solid bronze |
| Relubrication feature | With         |

## Technical Specification

|                       |              |
|-----------------------|--------------|
| Material              | Solid bronze |
| Operating temperature | min. -40 °C  |
| Operating temperature | max. 250 °C  |



### Dimensions

|                |       |   |
|----------------|-------|---|
| d              | 50 mm | Bore diameter   |
| D              | 60 mm | Outside diameter  |
| B              | 50 mm | Width   |
| D <sub>1</sub> | 70 mm | Outside diameter flange   |
| B <sub>1</sub> | 6 mm  | Width flange  |
| a              | 3 mm  | Distance side face - axial lubrication groove                     |
| h              | 51 mm | Distance bottom axial lubrication groove - opposite bore diameter |
| α              | 124°  | Aperture angle axial lubrication groove                           |

### Recommended fits

|                   |    |
|-------------------|----|
| Tolerance shaft   | e7 |
| Tolerance housing | H7 |

### Calculation data

|                              |                |                      |
|------------------------------|----------------|----------------------|
| Specific dynamic load factor | K              | 25 N/mm <sup>2</sup> |
| Specific static load factor  | K <sub>0</sub> | 45 N/mm <sup>2</sup> |

|                              |       |              |
|------------------------------|-------|--------------|
| Permissible sliding velocity | $v$   | max. 0.5 m/s |
| Coefficient of friction      | $\mu$ | min. 0.08    |
| Coefficient of friction      | $\mu$ | max. 0.15    |

## Mass

|              |  |         |
|--------------|--|---------|
| Mass bushing |  | 0.43 kg |
|--------------|--|---------|

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