

PCM 404450 MPOM composite

straight bushing

POM composite straight bushing



SKF POM composite straight (cylindrical) bushings are suitable for oscillating, rotating and linear movements, and can accommodate radial loads. After initial grease fill, they are optimized for minimal maintenance under tough operating conditions. Pockets in the sliding surface serve as grease reservoirs. Relubrication can extend bearing service life considerably. Despite their compact design, they can accommodate heavy loads.

- Cost-effective with long service life
- Very good frictional properties
- High load carrying capacity
- High sliding velocity

Overview

Dimensions

Bore diameter	40 mm
Outside diameter	44 mm
Width	50 mm

Performance

Basic dynamic load rating	236 kN
Basic static load rating	490 kN

Properties

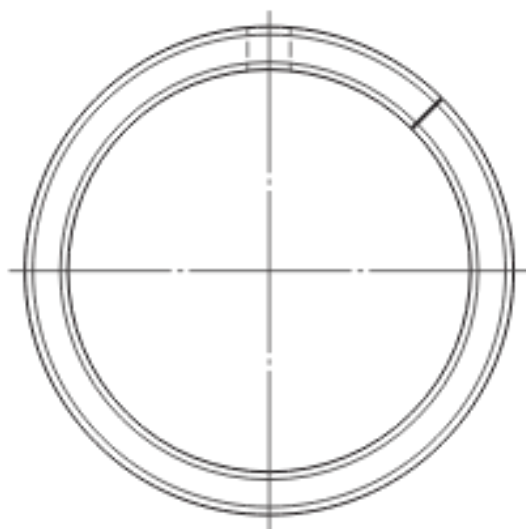
Design	Straight
Material	POM composite
Relubrication feature	With

Technical Specification

Material	POM composite
Operating temperature	min. -40 °C
Operating temperature	max. 110 °C

Dimensions

d	40 mm	Bore diameter
D	44 mm	Outside diameter
B	50 mm	Width
M	4 mm	Diameter lubrication hole
c ₁	min. 0.1 mm	Length chamfer bore - axial direction
c ₁	max. 0.7 mm	Length chamfer bore - axial direction
c ₂	min. 0.6 mm	Length chamfer outside diameter - axial direction
c ₂	max. 1.4 mm	Length chamfer outside diameter - axial direction



Recommended fits

Tolerance shaft	h8
Tolerance housing	H7

Calculation data

Basic dynamic load rating, radial direction	C	236 kN
Basic static load rating, radial direction	C_0	490 kN
Specific dynamic load factor	K	120 N/mm ²
Specific static load factor	K_0	250 N/mm ²
Factor depending on material and bearing type	K_M	1 900
Permissible sliding velocity	v	max. 2.5 m/s
Coefficient of friction	μ	min. 0.02
Coefficient of friction	μ	max. 0.2

Mass

Mass bushing		0.089 kg
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