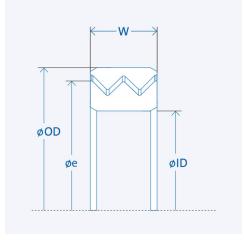


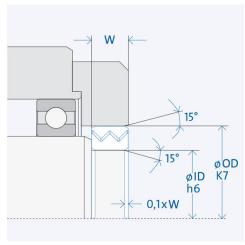
Labyrinth Metal Seal Type L



Axial play:







L 30 X 42 X 10

Item number 301189

Technical data

Outer ring material*: Aluminum (GD AlSi 12)
Inner ring material: Unalloyed construction steel

Inner diameter ID: 30 mm
Outer diameter OD: 42 mm
Installed width W: 10 mm

Sealing gap: Horizontal Axial play S_{ax}^{**} : 0.38 mm

Radial play S_{rad}^{**} : $S_{rad} = S_{ax} / tan (42,5^{\circ})$

Gap diameter e: 39 mm

Gap height: Constant 0,2– 0,5 mm (depending

upon size)

Speed limit: 48500 rpm
Weight: 0.0331 kg
Operating temperature t: -40° - 200°C

The aluminum outer ring can be slightly non-round as supplied. By pressing in the seal, the relatively easily deformable ring fits the roundness of the hub.

The outer ring can be up to 0.1 mm wider than the inner ring due to manufacturing. GMN metal labyrinth seals are pressed through a calibration ring ('zero dimension'). The outer ring then springs back due to its elasticity.

Installation

"I" Length (chamfering of shaft and housing) depending on the width W: $I=0.1 \times B$

Component tolerances

Surrounding structure (mating parts)

Housing: K7 / Shaft: h6

Surface quality: Rz ≤ 16 µm; Ra ≤ 3,2 µm

^{*}Aluminum outer ring

^{**}Entire movability from one end position to the other.