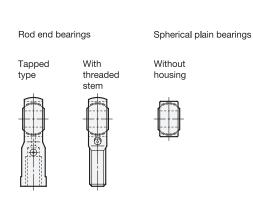


Steel version	Application features
Type N Steel housing, zinc plated Pairings: Steel internal ring, hardened Brass bearing socket Lubrication possible	For universal application conditions, especially with high alternating and shock loads in radial and in particular in axial direction.
Type W Steel housing, zinc plated Pairings: Steel internal ring, hardened Steel bearing socket, zinc plated, with PTFE insert Self-lubricating	For universal application conditions, especially with dynamic load; axial load capacity lower than for type N.



Stainless steel version	Application features
Type <b>NH</b> Stainless steel housing Pairings: Steel internal ring, hardened, hard chrome plated Bronze bearing socket <b>Lubrication possible</b>	As Type <b>N</b> in areas exposed to corrosion.
Type WH Stainless steel housing Pairings: Steel internal ring, hardened Bronze bearing socket, with PTFE insert Self-lubricating	As Type <b>W</b> in areas exposed to corrosion.
Type WK Stainless steel housing Pairings: Stainless steel internal ring, hardened Stainless steel bearing socket, with PTFE insert Self-lubricating	As Type <b>W</b> in areas exposed to corrosion with high requirements on corrosion resistance, e.g. in the food industry.

## Bearing play

Bearing play refers to the dimension by which the internal ring inside the bearing socket can be moved in a radial or an axial direction without lubrication.

Dimensions in: millimeters - inches

Types N, NH Lubricati	on possible	Types W, WH, WK Self-lubricating		
<b>d</b> <sub>1</sub> Bore internal ring	Radial bearing play	<b>d</b> <sub>1</sub> Bore internal ring	Radial bearing play	Axial bearing play
-	0. ,		0. ,	Axiai bearing play
5 10	0.005 0.035	5 10	0.005 0.030	
0.20 0.39	0.0002 0.0014	0.20 0.39	0.0002 0.0012	
12 20	0.010 0.040	12 20	0.005 0.035	O to O time on we died releva
0.47 0.79	0.0004 0.0016	0.47 0.79	0.0002 0.0014	2 to 3 times radial play
22 30	0.010 0.050	22 30	0.005 0.055	
0.87 1.18	0.0004 0.0020	0.87 1.18	0.0002 0.0022	

Load applied to obtain the measured results: 22 lbf (100 N) at room temperature.

## Lubrication

Rod end bearings of type  $\mathbf{N}$  (lubrication possible) require regular lubrication. When delivered, the rod end bearings are not lubricated. The initial lubrication takes place when installed. Within the temperature range of -4 °F to +257 °F (-20 °C to +125 °C), a multipurpose grease has proven to be adequate. Under extreme conditions, a high quality grease such as Gleitmo 805 K should be used. Rod end bearings of type  $\mathbf{W}$  (self-lubricating) **must not be lubricated**. The internal ring moves on a PTFE insert in the bearing socket.

## Operating temperature

Rod end bearings of type **N** (lubrication possible) can be used within a temperature range of -58 °F to +392 °C (-50 °C to +200 °C) and if used with a high temperature grease, even higher. Rod end bearings of type **W** (self-lubricating) can be used from -58 °F to +392 °C (-50 °C to +200 °C). In general, use at higher temperatures is possible, but this reduces the service life.

## Load values

Load values are bearing related values, derived from the material data of the material used. They are used to select a rod end bearing for a given load, but may have to be reduced in case of special operating conditions.

