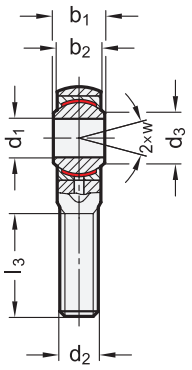
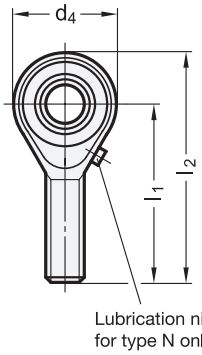
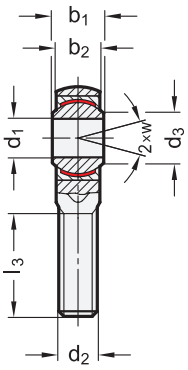
JW WINCO®
A Ganter Company

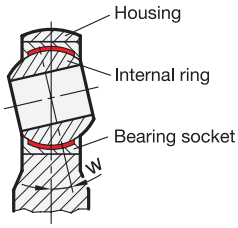
Type **N**





Type **W**





Metric

3 Type (Pairings)

N Brass / steel, lubrication possible
W Steel PTFE / steel, self-lubricating

Specification

- Housing
  Steel, zinc plated, blue passivated finish
  - d_1 = 5 to 12 mm: turned
  - d_1 = 14 to 25 mm: forged
- Pairings
  - Type N (lubrication possible)
    Bearing socket
    Brass, CuZn40Al1
    Internal ring
    Steel, 100Cr6
    Hardened, ground, polished
  - Type W (self-lubricating)
    Bearing socket
    Steel, zinc plated
    With PTFE insert
    Internal ring
    Steel, 100Cr6
    Hardened, ground, polished
- *ISO Fundamental Tolerances → page QVX*
- RoHS compliant

On request

- Narrow model (ISO 12240-1, series E)

Information

GN 648.2 rod end bearings are a mechanical articulating joint that transmit traction and thrust from linkages and lever arms and are resistant to wear, especially under high alternating loads and impact in a radial / axial direction. Rod end bearing are used on the ends of control rods, steering links and tie rods.

see also...

- *Further Information on Rod End Bearings as well as Load Values → page QVX*
- *Rod End Bearings GN 648.1 (Steel, Tapped Type) → page QVX*
- *Rod End Bearings GN 648.6 (Stainless Steel, with Threaded Stem) → page QVX*
- *Spherical Plain Bearings GN 648.8 → page QVX*

How to order

GN 648.2-10-M10L-W
(1 2 3)

1	Bore d_1
2	Thread d_2
3	Type

Metric table

Dimensions in: millimeters - *inches*

d_1 H7 Bore	d_2 Right hand thread	d_2 Left hand thread	b_1 −0.12	b_2	d_3	d_4	l_1	l_2	l_3	w Max. tilting angle
5** *0.20*	M 5	M 5L	8 *0.31*	6 *0.24*	7.7 *0.30*	18 *0.71*	33 *1.30*	42 *1.65*	20 *0.79*	13°
6 *0.24*	M 6	M 6L	9 *0.35*	6.75 *0.27*	8.9 *0.35*	20 *0.79*	36 *1.42*	46 *1.81*	22 *0.87*	13°
8 *0.31*	M 8	M 8L	12 *0.47*	9 *0.35*	10.4 *0.41*	24 *0.94*	42 *1.65*	54 *2.13*	25 *0.98*	14°
10 *0.39*	M 10	M 10L	14 *0.55*	10.5 *0.41*	12.9 *0.51*	28 *1.10*	48 *1.89*	62 *2.44*	29 *1.14*	13°
12 *0.47*	M 12	M 12L	16 *0.63*	12 *0.47*	15.4 *0.61*	32 *1.26*	54 *2.13*	70 *2.76*	33 *1.30*	13°
14 *0.55*	M 14	M 14L	19 *0.75*	13.5 *0.53*	16.8 *0.66*	36 *1.42*	60 *2.36*	78 *3.07*	38 *1.50*	16°
16 *0.63*	M 16	M 16L	21 *0.83*	15 *0.59*	19.3 *0.76*	42 *1.65*	66 *2.60*	87 *3.43*	40 *1.57*	15°
18 *0.71*	M 18 x 1.5	M 18 x 1.5L	23 *0.91*	16.5 *0.65*	21.8 *0.86*	46 *1.81*	72 *2.83*	95 *3.74*	44 *1.73*	15°
20 *0.79*	M 20 x 1.5	M 20 x 1.5L	25 *0.98*	18 *0.71*	24.3 *0.96*	50 *1.97*	78 *3.07*	103 *4.06*	47 *1.85*	14°
22 *0.87*	M 22 x 1.5	M 22 x 1.5L	28 *1.10*	20 *0.79*	25.8 *1.02*	54 *2.13*	84 *3.31*	111 *4.37*	51 *2.01*	15°
25 *0.98*	M 24 x 2	M 24 x 2L	31 *1.22*	22 *0.87*	29.6 *1.17*	60 *2.36*	94 *3.70*	124 *4.88*	58 *2.28*	15°
30* *1.18*	M 30 x 2	M 30 x 2L	37 *1.46*	25 *0.98*	34.8 *1.37*	70 *2.76*	110 *4.33*	145 *5.71*	71 *2.80*	17°

* Only available in type W ** For type N no lubrication possible