



3 Type (Pairings)

- N** Brass / Steel lubrication possible
- W** Steel PTFE / Steel self lubricated

1 2

d ₁ H7	d ₂	Left hand thread	b ₁ -0,12	b ₂	d ₃	d ₄	l ₁	l ₂	l ₃	w Movement angle
5**	M 5	M 5L	8	6	7,7	18	33	42	20	13°
6	M 6	M 6L	9	6,75	8,9	20	36	46	22	13°
8	M 8	M 8L	12	9	10,4	24	42	54	25	14°
10	M 10	M 10L	14	10,5	12,9	28	48	62	29	13°
12	M 12	M 12L	16	12	15,4	32	54	70	33	13°
14	M 14	M 14L	19	13,5	16,8	36	60	78	38	16°
16	M 16	M 16L	21	15	19,3	42	66	87	40	15°
18	M 18 x 1,5	M 18 x 1,5L	23	16,5	21,8	46	72	95	44	15°
20	M 20 x 1,5	M 20 x 1,5L	25	18	24,3	50	78	103	47	14°
22	M 22 x 1,5	M 22 x 1,5L	28	20	25,8	54	84	111	51	15°
25	M 24 x 2	M 24 x 2L	31	22	29,6	60	94	124	58	15°
30*	M 30 x 2	M 30 x 2L	37	25	34,8	70	110	145	71	17°

* only available in type W ** d₁ = 5 type N no lubrication possible

Specification

- Housing steel
 - Zinc plated, blue passivated
 - d₁ = 5 up to 12: machined
 - d₁ = 14 up to 25: forged
- Pairings
 - Type N (lubrication possible)
 - Bearing socket
Brass, CuZn40Al1
 - Internal ring
Steel, 100Cr6
Hardened, ground, polished
 - Type W (self lubricated)
 - Bearing socket
Steel, zinc plated
with PTFE insert
 - Internal ring
Steel, 100Cr6
Hardened, ground, polished

- ISO Fundamental Tolerances → Page 2151
- Plastic Characteristics → Page 2158
- RoHS

Information

Ball joint heads GN 648.2 are similar to DIN ISO 12240-4, series K (formerly DIN 648 K).

see also ...

- More Information to Ball Joint Heads as well as Load Capacity → Page 1654
- Ball Joint Heads with Threaded Bolt GN 648.6 (Stainless Steel) → Page 1659
- Ball Joints GN 648.8 → Page 1660

On request

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

How to order

GN 648.2-10-M10L-W

- 1 d₁
- 2 d₂
- 3 Type

3.1
3.2
3.3
3.4
3.5
3.6
3.7
3.8
3.9