



4 Type
L with tolerance ring
M with tapered bore

Metric table

Dimensions in: millimeters - inches

d₁ Ball diameter	d₂ Type L Bore diameter	t₁ Type L	d₄ Type M Bore diameter	t₂ Type M	d₃ ≈	h
16 .63	B 4	11 .43	B 4	9 .35	8 .31	15 .59
20 .79	B 5	13 .51	B 5	12 .47	12 .47	18 .71
20 .79	-	-	B 6	12 .47	12 .47	18 .71
25 .98	B 6	16 .63	B 6	16 .63	15 .59	22.5 .89
25 .98	B 8	15 .59	B 8	16 .63	15 .59	22.5 .89
25 .98	B 10	15 .59	-	-	15 .59	22.5 .89
32 1.26	B 8	15 .59	B 8	17 .67	18 .71	29 1.14
32 1.26	B 10	20 .79	B 10	17 .67	18 .71	29 1.14
32 1.26	B 12	20 .79	-	-	18 .71	29 1.14
40 1.57	B 10	25 .98	B 10	22 .87	22 .87	37 1.46
40 1.57	B 12	23 .91	B 12	22 .87	22 .87	37 1.46
50 1.97	B 12	20 .79	-	-	28 1.10	46 1.81
50 1.97	B 16	23 .91	-	-	28 1.10	46 1.81

Specification

- Type L
Plastic **KU**
Duroplast (Phenolic PF)
- No parting lines, flash removed and polished
- Black, glossy finish
- Tolerance ring, spring steel
 - Type M
Plastic **KT**
Technopolymer (Polyamide PA)
- Shock resistant
- Black, matte finish
- RoHS compliant

On request

- Red version

Information

When DIN 319 ball knobs type L and M are used the shaft does not require a thread. During mounting, easy blows with a soft hammer are sufficient to drive the knob into place, the shaft end should be slightly rounded or chamfered (30°). Before the assembly of the knobs, type L the tolerance ring is to be inserted into the drilling. Further it is to be noted that the knob is put on perpendicular and / or axially parallel. Otherwise the knob may break. Type M ball knobs are a more economical solution, however, the pulling off force is less predictable. Since there are no parting lines in the middle of the ball, the DIN 319 ball knob is an excellent choice for user friendly applications.

How to order	1 Material
1 2 3 4	2 Ball diameter d₁
DIN 319-KT-16-B4-M	3 Bore diameter d₂ (d₄)
	4 Type