



**4 Type**

- L** With tolerance ring
- M** With tapered bore

<b>2</b> $d_1$	<b>3</b> $d_2$ Type L	<b>3</b> $t_1$ Type L	<b>3</b> $d_4$ Type M	$t_2$ Type M	$d_3 \approx$	$h \approx$
16	B 4	11	B 4	9	8	15
16	-	-	B 5	9	8	15
20	B 5	13	B 5	12	12	18
20	-	-	B 6	12	12	18
25	B 6	16	B 6	16	15	22,5
25	B 8	15	B 8	16	15	22,5
25	B 10	15	-	-	15	22,5
32	B 8	15	B 8	17	18	29
32	B 10	20	B 10	17	18	29
32	B 12	20	-	-	18	29
40	B 10	25	B 10	22	22	37
40	B 12	23	B 12	22	22	37
50	B 12	20	-	-	28	46
50	B 16	23	-	-	28	46

**Specification**

**Type L**

Plastic, phenolic resin (PF)

- Black, shiny finish
- Tolerance ring
- Spring steel

**KU**

**Type M**

Plastic, Polyamide (PA)

- Shock resistant
- Black, matte finish

**KT**

RoHS

**On request**

Red version

When ball knobs DIN 319 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 hole. Further it is to be noted that the knob is put on perpendicular and / or axially parallel. Otherwise the ball knob may break.

Ball knobs, type M are a more economic solution.

see also...

GN 319.1 Ball Knobs (Press-On Type)

Page

QVX

**Technical Information**

ISO Fundamental Tolerances

Plastic Characteristics

QVX

QVX

How to order

**1** **2** **3** **4**  
**DIN 319-KU-40-B10-L**

**1** Material

**2**  $d_1$

**3**  $d_2$  ( $d_4$ )

**4** Type