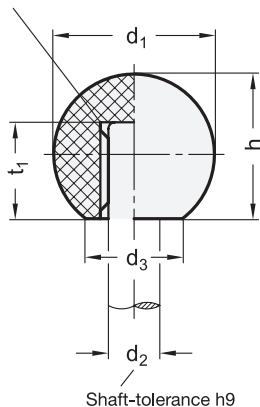
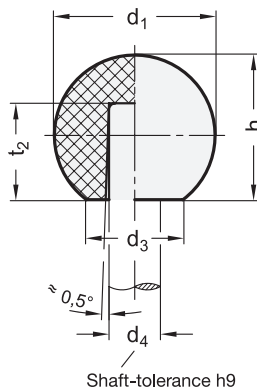


Tolerance ring Type L



Type M



**4 Type**

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

<b>d<sub>1</sub></b>	<b>d<sub>2</sub></b> Type L	<b>t<sub>1</sub></b> Type L	<b>d<sub>4</sub></b> Type M	<b>t<sub>2</sub></b> Type M	<b>d<sub>3</sub> ≈</b>	<b>h</b>
16	B 4	11	B 4	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  
Duroplast (Phenolic PF)  
black, shiny finish  
Tolerance ring  
Spring steel
- Type M  
Plastic  
Technopolymer (Polyamide PA)  
- shock resistant  
- black, matt finish
- ISO-Fundamental Tolerances → Page 1132
- Plastic characteristics → Page 1144
- RoHS-compliant

**On request**

- red version



**Information**

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 drilling. Further it is to be noted that the button is put on perpendicular and / or axially parallel. Otherwise the knob may break.

Type M ball knobs are a cheaper solution, however, the pulling off force is less predictable.

**How to order**

**DIN 319-KU-40-B10-L**

- 1 Material**
- 2 d<sub>1</sub>**
- 3 d<sub>2</sub> (d<sub>4</sub>)**
- 4 Type**

1.1  
1.2  
1.3  
1.4  
1.5  
1.6  
1.7  
1.8  
1.9