

**3** Type  
**B** Without rest position  
**C** With rest position

**1** **2**

d <sub>1</sub> Pin h6	l <sub>1</sub>	l <sub>2</sub> Stroke	l <sub>3</sub>	b	d <sub>2</sub>	d <sub>3</sub>	d <sub>4</sub>	k	l <sub>4</sub>	l <sub>5</sub>	l <sub>6</sub>	l <sub>7</sub> Page 940	l <sub>8</sub> Page 940		l <sub>9</sub> Page 940	Spring load in N ≈	
													min.	max.		Initial	End
6	18	9	9	13	23	4,3	34	23	45	6	25	7	9	10	17,5	6	25
6	24	9	15	13	23	4,3	34	23	45	6	25	7	15	16	23,5	6	25
8	20	10,6	9,4	16	28	5,3	38	26	51	8	27	9	9,4	10	19,5	8,5	28
8	26	10,6	15,4	16	28	5,3	38	26	51	8	27	9	15,4	16	25,5	8,5	28
10	24	12,6	11,4	16	28	5,3	38	26	51	8	27	11	11,4	12	23,5	11,5	40
10	32	12,6	19,4	16	28	5,3	38	26	51	8	27	11	19,4	20	31,5	11,5	40

**Specification**

- Steel
  - Blackened
  - Plunger pin hardened and ground
- Knob
  - Plastic (Polyamide PA)
  - Black, matte finish
  - Not removable
- *Load Rating Information* → Page 2132
- *ISO Fundamental Tolerances* → Page 2151
- *Plastic Characteristics* → Page 2158
- **RoHS**

**Accessory**

- Guide Bushings DIN 172 (cylindrical, with collar) → Page 1112
- Guide Bushings DIN 179 (cylindrical, without collar) → Page 1112
- Guide Bushings GN 172.1 (conical, with collar) → Page 941
- Guide Bushings GN 179.1 (conical, without collar) → Page 941

**Information**

Indexing plungers GN 817.5 allow highly accurate locating, with the guidance made by the guide bushings DIN 172 / 179 with cylindrical bore. The actual indexing bore is fitted with guide bushings GN 172.1 / 179.1 with conical bores.

The conical shape of the plunger pin / the indexing bore makes the positioning virtually clearance-free and therefore highly precise.

Type C is used for such applications where the plunger has to stay in its retracted position. To achieve this, the knob is rotated by 90° degrees after being retracted. A notch keeps the plunger in this position.

see also...

- *Construction and Assembly Instructions* → Page 940
- *List of Indexing Plunger Types* → Page 884 ff.

**How to order**

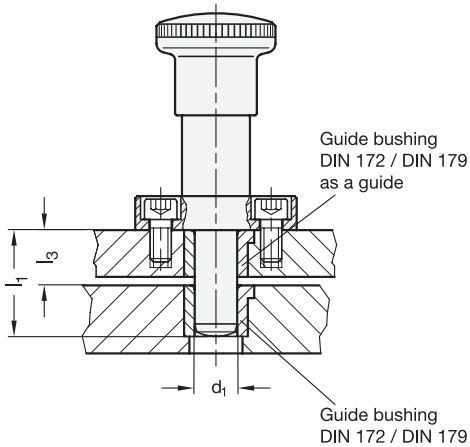
**GN817.5-8-20-B**

<b>1</b>	d <sub>1</sub>
<b>2</b>	l <sub>1</sub>
<b>3</b>	Type

3.1  
3.2  
3.3  
3.4  
3.5  
3.6  
3.7  
3.8  
3.9



### Construction and assembly instructions for indexing plungers GN 817.3 (Plunger pin cylindrical)



Two different plunger pin lengths  $l_1$  are available for each indexing plunger diameter  $d_1$ .

The length  $l_3$  must ensure that the plunger pin fully disengages, bushing length and plate thickness plus any gap can then be selected within certain margins.

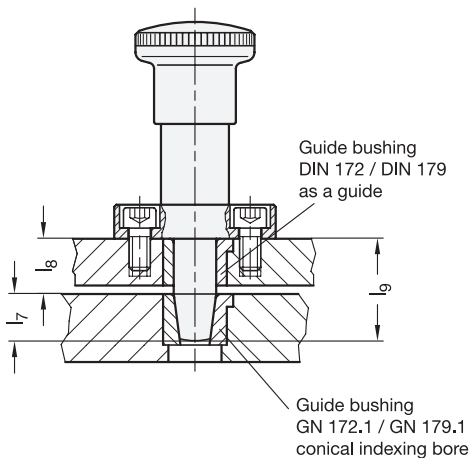
For mounting bushings with tolerance n6, a hole with tolerance H7 corresponding to the external diameter is usually provided.

A selection of suitable guide bushings DIN 172 and DIN 179 is given below on.

see also...

- *Indexing Plungers GN 817.3 (Plunger Pin Cylindrical)*  
→ Page 938

### Construction and assembly instructions for indexing plungers GN 817.5 (Plunger pin conical)



The length  $l_7$  is determined by the penetration depth of the plunger pin into the cone of the bushing.

The length  $l_8$  must ensure that the plunger pin fully disengages, bushing length and plate thickness plus any gap can then be selected within certain margins.

If engaged, the pin must have a minimum remaining stroke of 0,5 mm to make sure that the conical section of the pin is located without clearance in the cone of the guide bushing.

Two different plunger pin lengths  $l_1$  are available for each indexing plunger diameter  $d_1$  (see product table).

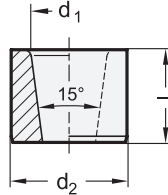
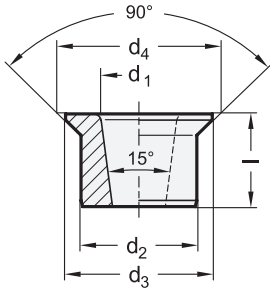
For a safe remaining stroke length:  $l_8 = l_1 - 0,5 \text{ mm}$

For mounting bushings with tolerance n6, a hole with tolerance H7 corresponding to the external diameter is usually provided.

A selection of suitable guide bushings DIN 172 / DIN 179 with cylindrical bore and guide bushings GN 172.1 / GN 179.1 with conical bore is given below on.

see also...

- *Indexing Plungers GN 817.5 (Plunger Pin Conical)*  
→ Page 939



3.1

3.2

1

2

d <sub>1</sub>	d <sub>2</sub> n6	d <sub>3</sub>	d <sub>4</sub> Diameter of counterbore	Length l
6	10	12,5	13,5	8
8	12	15	16	10
10	15	19	20,6	12

3.3

**Specification**

- Steel  
Hardened (HRC 60 ±2)
- ISO Fundamental Tolerances → Page 2151
- RoHS

**Information**

Guide bushings GN 172.1 / GN 179.1 with conical bore will be used for the latch bore of indexing plungers GN 817.5.

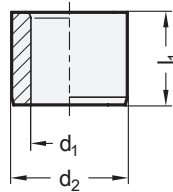
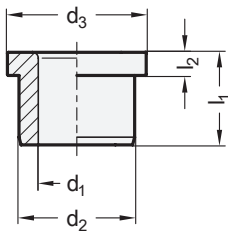
3.4

How to order (Without collar)

**GN179.1-10-15**

- |   |                |
|---|----------------|
| 1 | d <sub>1</sub> |
| 2 | d <sub>2</sub> |

3.5



3.6

3.7

1

2

3 Type

A Bore one-sided

d <sub>1</sub> F7	l <sub>1</sub>		d <sub>2</sub> n6	d <sub>3</sub>	l <sub>2</sub>
B 6	10	16	10	13	3
B 8	10	16	12	15	3
B 10	12	20	15	18	3

3.8

3.9

**Specification**

- Steel  
Hardened (HRC 62 ±2)
- ISO Fundamental Tolerances → Page 2151
- RoHS

**Information**

The dimensions stated above are merely an excerpt from the standards DIN 172 / DIN 179 → Page 1112.

How to order (With collar)

**DIN 172-B8-16-A**

- |   |                |
|---|----------------|
| 1 | d <sub>1</sub> |
| 2 | l <sub>1</sub> |
| 3 | Type           |

