

- 1 Type**
- RG** With hollow knurled knob GN 7336
  - VK7** With square spindle
  - VK8** With square spindle
  - DK** With triangular spindle
  - SK6** With hex
  - VDE** With double bit

**Metric table**

Dimensions in: millimeters - inches

2 Clamping range A1- A5 ( Door thickness + frame thickness)									
A 1		A 2		A 3		A 4		A 5	
4 - 16		11 - 23		19 - 31		27 - 39		34 - 46	
0.16 - 0.63		0.43 - 0.91		0.75 - 1.22		1.06 - 1.54		1.34 - 1.81	
b max.	Length l ≈	b max.	Length l ≈	b max.	Length l ≈	b max.	Length l ≈	b max.	Length l ≈
6	9.5	10	9.5	12	-	12	20	12	15
0.24	0.37	0.39	0.37	0.47		0.47	0.79	0.47	0.59

**Specification**

- Cam latch housing  
Zinc die-cast  
Powder coated  
Black, RAL 9006, textured finish
- Latch arm / assembly hardware  
Steel, zinc plated, blue passivated finish
- Hollow knurled knob (Type RG)  
Plastic  
Technopolymer (Polyamide PA)
  - Knob  
Black, matte finish
  - Cover cap  
Light gray, matte finish
- RoHS compliant

**Information**

Compression cam latches GN 116.1 have a closing mechanism which transfers the rotary movement of the operating element or socket key into a 90° turn and then into a 12 mm (travel distance) axial movement of the latch arm. This configuration allows large closing strokes within the individual key spacings, e.g. in connection with seals.

Latch arms are available with different bend angles to cover a clamping range A1...A5 from 4 to 46 mm. The selected gradations ensure broad overlapping between the clamping ranges.

The permissible tightening torque for the clamping screw is 2 Nm, which brings the axial closing force of the latch arm to about 300 N.

see also...

- *List of Cam Latch / Cam Lock Types* → page 1256
- *Compression Cam Latches GN 516.1* → page 1287
- *Compression Cam Latches GN 516* → page 1284

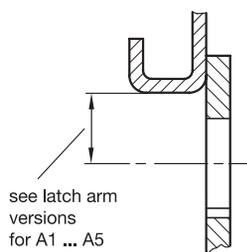
**Accessory**

- Socket keys GN 119.2 → page 1310

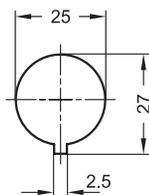
How to order <b>GN 116.1-VK7-A2</b>	1 Type
	2 Clamping range A



**Hole distance**



**Installation hole for punching or laser machining**



**Construction and assembly instructions**

By turning the latch clockwise (right), the latch arm is first turned by 90° and so moved into the closing position.

As the turning continues, the thread pitch (M 10 thread) causes the latch arm to move a maximum of 12 mm in the axial direction until it finally clamps the door against the frame.

When the latch is opened by turning counter-clockwise (left), the latch arm moves back and then releases the door when turned again by 90°.

The friction required for the 90° rotation is generated by the thrust spring.

For installation, set a hole in the door, cover or hatch as shown in the outline drawing.

The latch is inserted through the hole from the front, during which the latch arm must be in the axially open end position and roughly in the middle of the rotary range. The mounting nut can then be pushed over the latch from the back and bolted in place.

The required installation bore in the door leaf, is usually generated by punching or laser machining in series production.

3.1  
3.2  
3.3  
3.4  
3.5  
3.6  
3.7  
3.8  
3.9  
3.10

