

**4** Type  
**R** Clamping by clockwise rotation (d<sub>2</sub> = right-hand thread)

**1** **2** **3**

| d <sub>1</sub><br>Nominal dimension | d <sub>1</sub> | d <sub>2</sub> | Length l | h <sub>1</sub> | h <sub>2</sub> | r <sub>1</sub> | r <sub>2</sub> | s <sub>1</sub> | s <sub>2</sub> | A/F | x<br>±0,2 | z<br>±0,2 | Max. tightening torque in Nm | Max. clamping force F in kN |
|-------------------------------------|----------------|----------------|----------|----------------|----------------|----------------|----------------|----------------|----------------|-----|-----------|-----------|------------------------------|-----------------------------|
| 9                                   | 9,2            | M 4            | 8        | 3              | 3              | 4              | 4,6            | 1              | 0,6            | 2,5 | 3,5       | 4,2       | 1,5                          | 0,09                        |
| 12                                  | 11,7           | M 5            | 10       | 4              | 3,5            | 5              | 5,7            | 1,16           | 0,7            | 3   | 4,2       | 5,2       | 2                            | 0,1                         |
| 14                                  | 14,2           | M 6            | 12       | 5              | 4,5            | 6,1            | 7,1            | 1,44           | 1              | 4   | 5,4       | 6,4       | 5                            | 0,3                         |
| 18                                  | 18             | M 8            | 16       | 6              | 5,5            | 7,7            | 9              | 1,84           | 1,2            | 5   | 6,6       | 8         | 22                           | 2,7                         |
| 22                                  | 22,2           | M 10           | 20       | 7              | 6,5            | 9,4            | 11,1           | 2,16           | 1,7            | 6   | 8,3       | 9,8       | 35                           | 4,0                         |
| 26                                  | 25,8           | M 12           | 24       | 9              | 8              | 11,6           | 13,6           | 2,53           | 1,9            | 8   | 10,1      | 12        | 45                           | 5,4                         |

### Specification

- Steel
  - case hardened HRC 56 ±1
  - Tensile strength class 8.8 (800 N/mm<sup>2</sup>)
  - zinc plated, blue passivated
- RoHS compliant

### Information

Cam point screws GN 418.2 are sturdy and compact elements, requiring a minimum of installation space and offering ultimate convenience and ease in handling.

The clamping forces F given in the table refer to the maximum permitted tightening torque and the specified screw-in depth t.

see also...

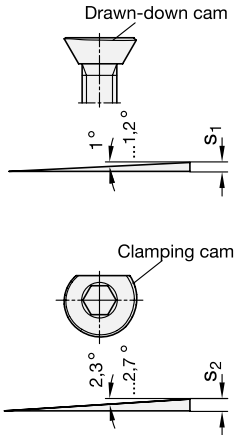
- Cam point levers GN 418.1 → Main catalogue Page 654

How to order

|          |                |
|----------|----------------|
| <b>1</b> | d <sub>1</sub> |
| <b>2</b> | d <sub>2</sub> |
| <b>3</b> | Length l       |
| <b>4</b> | Type           |

**GN 418.2-26-M12-24-R**

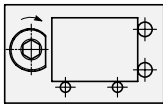
### Function



The head of the cam point screw has two cams: a radial clamping cam (with additional 30° taper) and an axial draw-down cam. The cam ensures that the clamping force is the same in any angular position. The cam is also self-locking.

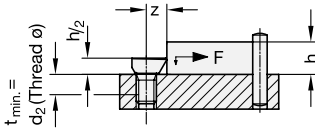
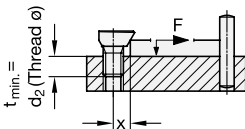
Force components act on the clamping point which generate a draw-down effect and which, in addition to the friction, cause the workpiece to be pressed against a fixed stop. An additional draw-down effect is created by the thread and the 30° taper.

To ensure safe and secure clamping in every application, a right-hand version (with right-hand thread) and a left-hand version (with left-hand thread) is available.

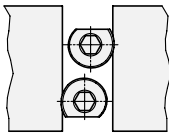


### Assembly instructions

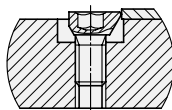
- Position the thread bore(s) as specified
- Screw the cam point screw in to the desired height and place it with its flat side facing the workpiece (note the minimum screw-in depth  $t$ )
- For clamping effect above the head taper, the minimum clamping height should be  $h_2$
- A turn of approx. 135° is required for clamping



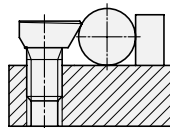
### Application examples



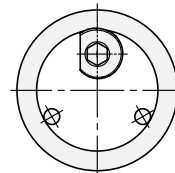
Multiple clamps in the narrowest of space



Clamping flat workpieces (sheet metal)



Clamping round workpieces



Centric clamping in a bore hole