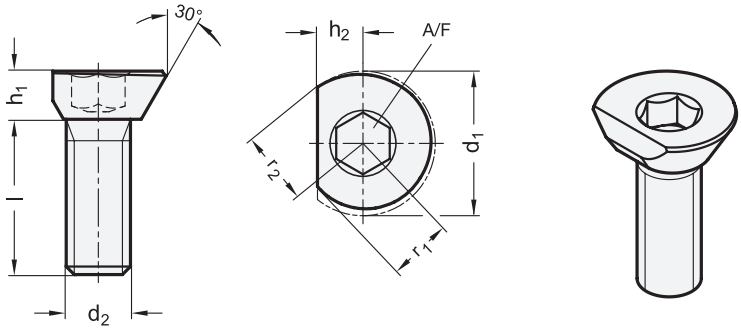


Metric

4 Type

R Clamping by clockwise rotation (d_2 = right-hand thread)

Metric table

Dimensions in: millimeters - *inches*

1 d_1 Nominal dimension	d_1 Actual dimension	2 d_2	3 Length l	h_1	h_2	r_1	r_2	s_1	s_2	A/F	x ±0.2	z ±0.2	Max. tightening torque Nm	Max. clamping force F
9 *0.35*	9.2 *0.36*	M 4	8 *0.31*	3 *0.12*	3 *0.12*	4 *0.16*	4.6 *0.18*	1 *0.04*	0.6 *0.02*	2.5	3.5 *0.14*	4.2 *0.17*	1.5	0.09 kN *20.23 lbf*
12 *0.47*	11.7 *0.46*	M 5	10 *0.39*	4 *0.16*	3.5 *0.14*	5 *0.20*	5.7 *0.22*	1.16 *0.05*	0.7 *0.03*	3	4.2 *0.17*	5.2 *0.20*	2	0.1 kN *22.48 lbf*
14 *0.55*	14.2 *0.56*	M 6	12 *0.47*	5 *0.20*	4.5 *0.18*	6.1 *0.24*	7.1 *0.28*	1.44 *0.06*	1 *0.04*	4	5.4 *0.21*	6.4 *0.25*	5	0.3 kN *67.44 lbf*
18 *0.71*	18 *0.71*	M 8	16 *0.63*	6 *0.24*	5.5 *0.22*	7.7 *0.30*	9 *0.35*	1.84 *0.07*	1.2 *0.05*	5	6.6 *0.26*	8 *0.31*	22	2.7 kN *607 lbf*
22 *0.87*	22.2 *0.87*	M 10	20 *0.79*	7 *0.28*	6.5 *0.26*	9.4 *0.37*	11.1 *0.44*	2.16 *0.09*	1.7 *0.07*	6	8.3 *0.33*	9.8 *0.39*	35	4.0 kN *899 lbf*
26 *1.02*	25.8 *1.02*	M 12	24 *0.94*	9 *0.35*	8 *0.31*	11.6 *0.46*	13.6 *0.54*	2.53 *0.10*	1.9 *0.07*	8	10.1 *0.40*	12 *0.47*	45	5.4 kN *1214 lbf*

Specification

- Steel
  - Case hardened HRC 56 ±1
  - Property strength class 8.8
  - Zinc plated, blue passivated finish
- *Strength Values of Screws → page QVX*
- RoHS compliant

Information

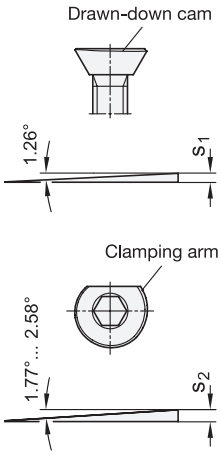
GN 418.2 cam point screws are simple clamping elements for a wide variety of different uses. They are sturdy and compact, requiring a minimum of installation space and offering ultimate convenience and ease in handling.

The F clamping forces given in the table refer to the maximum permitted tightening torque and the specified screw-in depth = t as shown on the “Assembly Instructions”.

How to order

1 2 3 4
GN 418.2-26-M12-24-R

1	Diameter d_1
2	Thread d_2
3	Length l
4	Type

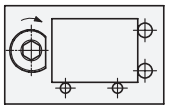


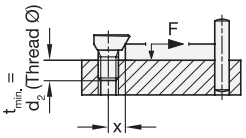
Function

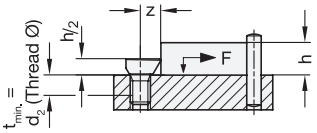
The head of the cam point screw has two cams: a radial clamping cam (with additional 30° taper) and an axial draw-down cam.

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 generates a draw-down effect and, in addition to the friction, cause the workpiece to be pressed up against a fixed stop. An additional draw-down effect is created by the thread and the 30° taper.



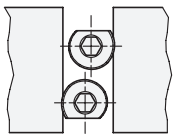




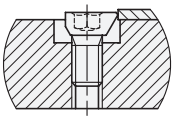
Assembly instructions

- Position the threaded hole/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

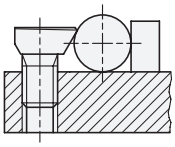
Application examples



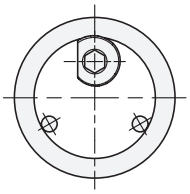
Multiple clamps in the narrowest of space



Clamping flat workpieces (sheet metal)



Clamping round workpieces



Centric clamping in a bore hole