

These self-locking hexagon flange bolts with ribbed flange are designated property class '100'. The flange bolts are case hardened in order to perform their self-locking function, and therefore cannot be classified as property class 10.9, although their tensile strength is at least 1040 MPa.

Special features of these self-locking flange bolts are:

- The ribbed flange eliminates surface damage during assembly, prevents self-loosening and reduces relaxation.
- The flange enables built up forces under the bolt head to be spread over a larger area, consequently resulting in lower surface pressure.
- Large (oversized) or slotted holes can be covered by the flange.
- No other locking elements or washers are necessary.

The below table provides values for the advised assembly preload ( $F_M$  in kN) and tightening torque ( $M_A$  in Nm) for use with clamped materials as indicated.

Clamped material	M 5		M 6		M 8		M 10		M 12		M 16	
	$F_M$	$M_A$	$F_M$	$M_A$	$F_M$	$M_A$	$F_M$	$M_A$	$F_M$	$M_A$	$F_M$	$M_A$
Steel ( $R_m < 800$ MPa)	9	11	12.6	19	23.2	42	37	85	54	130	102	330
Steel ( $R_m \geq 800$ MPa)	9	10	12.6	18	23.2	37	37	80	54	120	102	310
Malleable iron	9	9	12.6	16	23.2	35	37	75	54	115	102	300