



The Flat spring nut is a fastener composed of two raised thread forms which give double elastic pressure. The bow of the base and the arched form of the thread forms mean that two different forces are applied gradually to the screw when tightened. Radial force A is produced by the pressure of the thread forms deep into the thread while axial force B is exerted upon the outside of the thread due to the compression of the thread forms onto the base.

No special tools are required to mount this nut and it is quicker and easier to mount than conventional nuts. As it is self-locking, costly operations such as tapping, welding or

riveting are avoided. It can also be used with fragile materials such as glass, plastic or enameled surfaces. In these cases the resilience of the nut avoids cracks or damage to the application area. This nut locks with tightening torques which much lower than for standard nuts due its great resilience.

**MATERIAL:** Spring steel  
**HARDNESS:** HV 420 ÷500 / HRC 43 ÷49  
**FINISH:** Anti-rust oil-dipped

Metric	Thread DIN 7970	Part Number	a	b	s	Box Quantity	Outer Box Quantity
M3		02120015	6 ±0,2	9 ±0,2	0,3	1000	16000
M4		02120031	8 ±0,2	14 ±0,2	0,4	1000	16000
M5		02120058	10 ±0,2	15 ±0,2	0,5	1000	16000
M6		02120066	12 ±0,3	18 ±0,3	0,5	1000	8000
M8		02120082	16 ±0,3	24 ±0,3	0,6	1000	8000
	2,9 (ISO 4)	02120103	8 ±0,2	14 ±0,2	0,5	1000	16000
	3,5 (ISO 6)	02120111	8 ±0,2	13 ±0,2	0,6	1000	16000
	3,9 (ISO 7)	02120120	10 ±0,2	14 ±0,2	0,6	1000	16000
	4,2 (ISO 8)	02120138	10 ±0,2	16 ±0,2	0,6	1000	16000
	4,8 (ISO 10)	02120146	12 ±0,3	16 ±0,3	0,7	1000	8000
	6,3 (ISO 14)	02120162	14 ±0,3	19 ±0,3	1,0	1000	8000