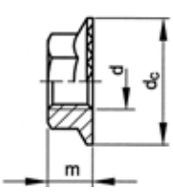
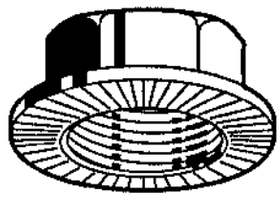
Self-locking hexagon nut with flange





Technical data

3

d	P	m	s	d_c
M5	0,8	4,3	8	11,2
M6	1	5,5	10	14,2
M8	1,25	7	13	18,2
M10	1,5	8,5	15	21
M12	1,75	10	17	24
M16	2	14	22	31

- Technical brochure available on request.

Special features of RIPP self-locking hexagon nuts with flange:
- the serrated flange limits surface damage assembly, prevents self-loosening and reduces relaxation
- the flange enables built-up forces under the nut head to be spread over a larger area, consequently resulting in lower surface pressure
- large holes (oversized) and/or tooling holes can be covered by the flange
- a washer and/or a locking element is not necessary

ASSEMBLY PRE-LOAD F_M in Kn and TIGHTENING TORQUE M_A in Nm

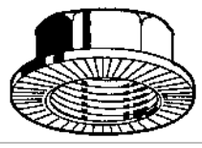
Class	Mating material	M5		M6		M8		M10		M12		M16	
		F_M	M_A	F_M	M_A	F_M	M_A	F_M	M_A	F_M	M_A	F_M	M_A
10	Steel (Rm < 800 N/mm²)	9	11	12,6	19	23,2	42	37	85	54	130	102	330
	Steel (Rm ≥ 800 N/mm²)	9	10	12,6	18	23,2	37	37	80	54	120	102	310
	Malleable iron	9	9	12,6	16	23,2	35	37	75	54	115	102	300

Article groups

Thread	Driving features	Material	Class	Surface treatment	Packaging	Code	Page
M	hexagon	St	10		Standard	12470	3-68
M	hexagon	St	10	Zipl	Standard	12471	3-68
M	hexagon	St	10	FLZNNC-NC6	Standard	12474	3-69

12470 RIPP Self-locking hexagon nut with flange — F92A

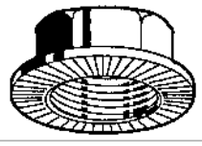
Thread Metric thread
Material Steel
Class 10
Packaging Standard



d	✉	Art.number	d	✉	Art.number	d	✉	Art.number
M5	500	12470.050.001	M8	200	12470.080.001	M12	100	12470.120.001
M6	500	12470.060.001	M10	200	12470.100.001	M16	100	12470.160.001

12471 RIPP Self-locking hexagon nut with flange — F92A

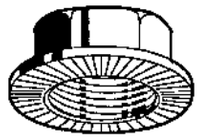
Thread Metric thread
Material Steel
Class 10
Surface treatment Zinc plated
Packaging Standard



d	✉	Art.number	d	✉	Art.number	d	✉	Art.number
M5	500	12471.050.001	M8	200	12471.080.001	M12	100	12471.120.001
M6	500	12471.060.001	M10	200	12471.100.001	M16	100	12471.160.001

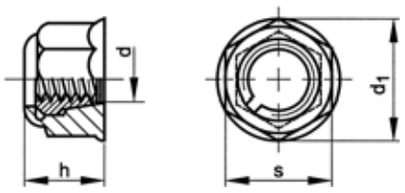
12474 RIPP Self-locking hexagon nut with flange F92A

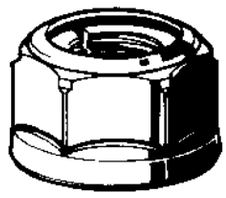
Thread Metric thread
Material Steel
Class 10
Surface treatment Zinc flake Cr6+ free - ISO 10683 flZnnc
Packaging Standard



d	✉	Art.number	d	✉	Art.number	d	✉	Art.number
M5	250	12474.050.001	M8	200	12474.080.001	M12	100	12474.120.001
M6	250	12474.060.001	M10	200	12474.100.001	M16	100	12474.160.001

Prevailing torque type hexagon nut all metal

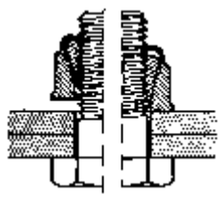




Technical data

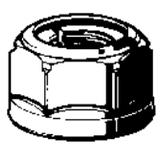
d	P	d_1	h	s
M6	1	12	7,5	10
M8	1,25	16,8	10	14
M10	1,5	20,4	12,5	17
M12	1,75	25	15	21
M14	2	27,5	17	23
M16	2	31	19	26
M18	2,5	34,5	22	29
M20	2,5	38,5	23	32
M22	2,5	41,5	25	35
M24	3	45	28,5	38

Special features of SECURIT prevailing torque type hexagon nuts:
- is a two-piece all metal nut, consisting of an internal cone in which the thread is tapped and slotted over the full height, and an external cone (being hexagonal with a turner over flange on the top) attached to each other. During torquing the internal cone is clamped around the full circumference of the thread with a progressive force.
- re-usable
- temperature resistant up to +350°C.



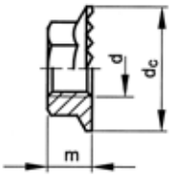
13000 SECURIT Prevailing torque type hexagon nut all metal **F93A**

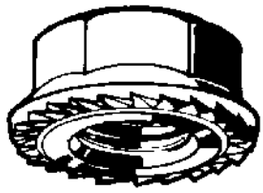
Thread	Metric thread
Material	Steel
Class	6
Surface treatment	Zinc plated yellow passivated
Packaging	Standard



d	✉	Art.number	d	✉	Art.number	d	✉	Art.number
M6	50	13000.060.001	M10	25	13000.100.001			
M8	25	13000.080.001	M12	10	13000.120.001			

Self-locking hexagon nut TENSILOCK





Technical data

d	P	m	s	d_c
M5	0,8	4,3	8	11,2
M6	1	5,5	10	14,25
M8	1,25	7	13	18,25
M10	1,5	7,9	15	21
M12	1,75	8,7	17	24
M16	2	11,2	22	31

- Class 8 shall be used with property class 8.8 and 90 and class 10 with property class 10.9 and 100.
- Technical brochure available on request.

Special features of TENSILOCK self-locking hexagon nuts:
- the resilient serrated flange gives excellent self-locking properties
- inside of the resilient flange serration there is an optimal preloading of the construction with minimal settlement
- a washer and/or locking element is not necessary and is not even advisable

ASSEMBLY PRE-LOAD F_M in kN and TIGHTENING TORQUE M_A in Nm

Class	Mating material	M5		M6		M8		M10		M12		M16	
		F_M	M_A	F_M	M_A	F_M	M_A	F_M	M_A	F_M	M_A	F_M	M_A
8	Steel	6,35	9	9	16	16,5	34	26,2	58	--	--	--	--
	Malleable iron	6,35	7	9	13	16,5	28	26,2	49	--	--	--	--
10	Steel	--	--	--	--	--	--	--	--	54	120	102	280
	Malleable iron	--	--	--	--	--	--	--	--	54	105	102	260

Article groups

Thread	Driving features	Material	Class	Surface treatment	Packaging	Code	Page
M	hexagon	St	8/10		Standard	01150	3-71
M	hexagon	St	8/10	Zipl	Standard	01149	3-71
M	hexagon	St	8/10	FLZNNC-NC6	Standard	01155	3-72

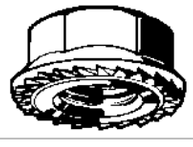
01150 TENSILOCK Self-locking hexagon nut **F92A**

Thread Metric thread
Material Steel
Class 8/10
Packaging Standard

d	✉	Art.number	d	✉	Art.number	d	✉	Art.number
M5	500	01150.050.001	M8	200	01150.080.001	M12	100	01150.120.001
M6	500	01150.060.001	M10	200	01150.100.001	M16	100	01150.160.001

01149 TENSILOCK Self-locking hexagon nut **F92A**

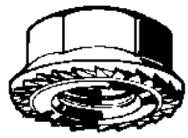
Thread Metric thread
Material Steel
Class 8/10
Surface treatment Zinc plated
Packaging Standard



d	✉	Art.number	d	✉	Art.number	d	✉	Art.number
M5 - CL.8	500	01149.050.001	M8 - CL.8	200	01149.080.001	M12 - CL.10	100	01149.120.001
M6 - CL.8	500	01149.060.001	M10 - CL.8	200	01149.100.001	M16 - CL.10	100	01149.160.001

01155 TENSILOCK Self-locking hexagon nut F92A

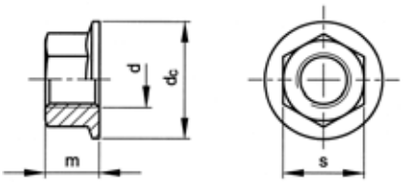
Thread Metric thread
Material Steel
Class 8/10
Surface treatment Zinc flake Cr6+ free - ISO 10683 flZnnc
Packaging Standard



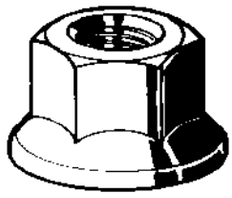
d	✉	Art.number	d	✉	Art.number	d	✉	Art.number
M6	500	01155.060.001	M10	200	01155.100.001	M16	100	01155.160.001
M8	200	01155.080.001	M12	100	01155.120.001			

3

Hexagon nut with flange



ISO 4161
DIN 6923 (1983)
NF E25-406



Technical data

d	P	m (max.)	s	d_c (max.)
M4 (≠DIN)	0,7	4,5	7	9,8
M5	0,8	5	8	11,8
M6	1	6	10	14,2
M8	1,25	8	13	17,9
M10	1,5	10	15	21,8
M12	1,75	12	18	26
M14	2	14	21	29,9
M16	2	16	24	34,5
M20	2,5	20	30	42,8
M24 (≠DIN)	3	24	36	51

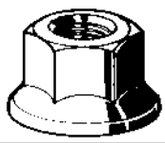
- Special features of hexagon nuts with flange:
- The flange enables built up forces to be spread over a larger area, consequently resulting in lower surface pressure.
- Large holes (oversized) and/or tooling holes can be covered by the flange.
- A washer is not necessary.

Article groups

Thread	Driving features	Material	Class	Surface treatment	Packaging	Code	Page
M	hexagon	St	8	Zipl	Standard	11590	3-73
M	hexagon	St	8	Zipl yell.p.	Standard	11595	3-73
M	hexagon	St	10	Zipl	Standard	11598	3-74
M	hexagon	St.St. A2	70		Standard	51108	3-74

11590 Hexagon nut with flange — F01X

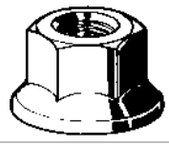
Thread Metric thread
Material Steel
Class 8
Surface treatment Zinc plated
Packaging Standard



d	✉	Art.number	d	✉	Art.number	d	✉	Art.number
M4	250	11590.040.001	M10	100	11590.100.001	M20	50	11590.200.001
M5	250	11590.050.001	M12	100	11590.120.001	M24	25	11590.240.001
M6	250	11590.060.001	M14	50	11590.140.001			
M8	250	11590.080.001	M16	50	11590.160.001			

11595 Hexagon nut with flange — F01X

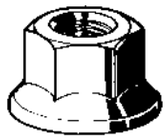
Thread Metric thread
Material Steel
Class 8
Surface treatment Zinc plated yellow passivated
Packaging Standard



d	✉	Art.number	d	✉	Art.number	d	✉	Art.number
M5	250	11595.050.001	M10	100	11595.100.001	M16	50	11595.160.001
M6	250	11595.060.001	M12	100	11595.120.001			
M8	250	11595.080.001	M14	50	11595.140.001			

11598 Hexagon nut with flange — F01X

Thread Metric thread
Material Steel
Class 10
Surface treatment Zinc plated
Packaging Standard

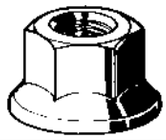


d	✉	Art.number	d	✉	Art.number	d	✉	Art.number
M5	250	11598.050.001	M10	100	11598.100.001	M16	50	11598.160.001
M6	250	11598.060.001	M12	100	11598.120.001	M20	50	11598.200.001
M8	250	11598.080.001	M14	50	11598.140.001	M24	25	11598.240.001

3

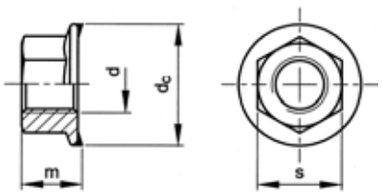
51108 Hexagon nut with flange — R09A

Thread Metric thread
Material Stainless steel A2
Class 70
Packaging Standard

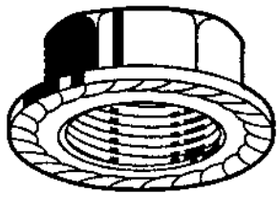


d	✉	Art.number	d	✉	Art.number	d	✉	Art.number
M5	250	51108.050.001	M8	250	51108.080.001	M12	100	51108.120.001
M6	250	51108.060.001	M10	100	51108.100.001			

Hexagon nut with toothed flange



ISO ≈4161
DIN ≈6923 (1983)
NF ≈E25-406



Technical data

d	P	m (max.)	s	d_c (max.)
M4 (≠DIN)	0,7	4,5	7	9,6
M5	0,8	5	8	11,8
M6	1	6	10	14,2
M8	1,25	8	13	17,9
M10	1,5	10	15	21,8
M12	1,75	12	18	26
M14	2	14	21	29,9
M16	2	16	24	34,5

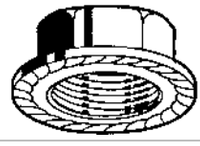
- Special features of hexagon nuts with toothed flange:
- The flange enables built up forces to be spread over a larger area, consequently resulting in lower surface pressure.
- Large holes (oversized) and/or tooling holes can be covered by the flange.
- A washer is not necessary.
- Toothened flangebrim gives excellent self-locking properties.

Article groups

Thread	Driving features	Material	Class	Surface treatment	Packaging	Code	Page
M	hexagon	St	8		Standard	11609	3-75
M	hexagon	St	8	Zipl	Standard	11610	3-75
M	hexagon	St	8	Zipl yell.p.	Standard	11611	3-75

11609 Hexagon nut with toothed flange — F01X

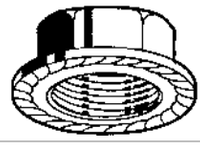
Thread Metric thread
Material Steel
Class 8
Packaging Standard



d	✉	Art.number	d	✉	Art.number	d	✉	Art.number
M5	250	11609.050.001	M8	250	11609.080.001	M12	100	11609.120.001
M6	250	11609.060.001	M10	100	11609.100.001	M16	50	11609.160.001

11610 Hexagon nut with toothed flange — F01X

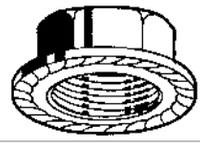
Thread Metric thread
Material Steel
Class 8
Surface treatment Zinc plated
Packaging Standard



d	✉	Art.number	d	✉	Art.number	d	✉	Art.number
M4	250	11610.040.001	M8	250	11610.080.001	M14	50	11610.140.001
M5	250	11610.050.001	M10	100	11610.100.001	M16	50	11610.160.001
M6	250	11610.060.001	M12	100	11610.120.001			

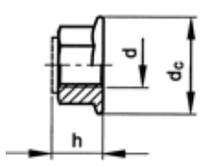
11611 Hexagon nut with toothed flange — F01X

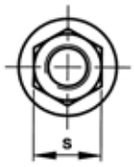
Thread Metric thread
Material Steel
Class 8
Surface treatment Zinc plated yellow passivated
Packaging Standard



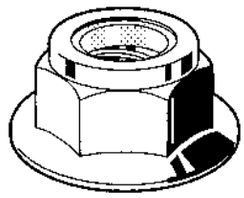
d	✉	Art.number	d	✉	Art.number	d	✉	Art.number
M4	250	11611.040.001	M8	250	11611.080.001	M14	50	11611.140.001
M5	250	11611.050.001	M10	100	11611.100.001	M16	50	11611.160.001
M6	250	11611.060.001	M12	100	11611.120.001			

Prevailing torque type hexagon flange nut with non-metallic insert





ISO 7043
DIN 6926



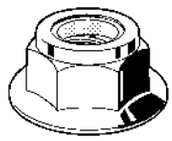
Technical data

3

d	P	h (max.)	s	d_c (max.)
M5	0,8	7,1	8	11,8
M6	1	9,1	10	14,2
M8	1,25	11,1	13	17,9
M10	1,5	13,5	15	21,8
M12	1,75	16,1	18	26
M16	2	20,3	24	34,5

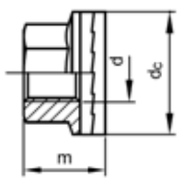
12460 Prevailing torque type hexagon flange nut with non-metallic insert **F01X**

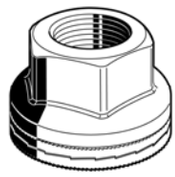
Thread Metric thread
Material Steel
Class 8
Surface treatment Zinc plated
Packaging Standard



d	✉	Art.number	d	✉	Art.number	d	✉	Art.number
M5	250	12460.050.001	M8	250	12460.080.001	M12	100	12460.120.001
M6	250	12460.060.001	M10	200	12460.100.001	M16	50	12460.160.001

Hexagon wheelnut





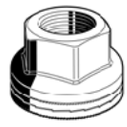
Technical data

d x P	M22x1,5
s	32
d_c	46
m	27
Tightening torque in Nm	600-650
Assembly pre-load in kN	≈ 200

12479 NORDLOCK Hexagon wheelnut **NL2A**

Thread Metric extra fine thread
Material Steel
Class 10
Surface treatment Deltaprotekt
Packaging Standard

NORD-LOCK
Bolt securing system



d x P	✉	Art.number	d x P	✉	Art.number	d x P	✉	Art.number
M22X1,5	20	12479.220.150						