



Metric Prevailing-Torque Type Steel Lock Nut, PC8

DESCRIPTION: (C2C103B1) American National Standard prevailing-torque type metric hex lock nut style 1, with nonmetallic type insert.

MATERIAL: Medium Carbon steel quenched and tempered, Property Class 8. 800 MPa proof load stress.

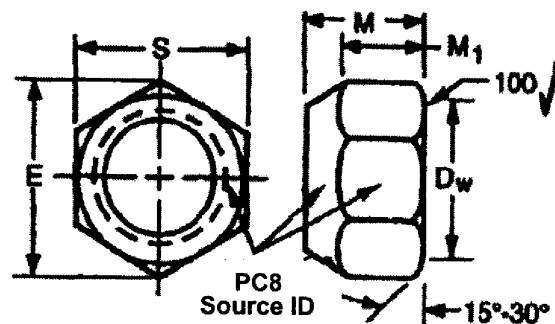
HARDNESS:
Rockwell (HRB) 89 to (HRC) 30
Vickers (VHN) 188 to 302

SCREW THREADS:
Coarse threads, (ISO) Tolerance Class 6H – unplated

MARKINGS: PC8 and registered source ID

For GE Energy Applications Only: The EMPIS Specification takes precedence over the DIN, EN, & ISO Specifications.

Reference: ASME B18.16.3M and ISO 7040



All dimensions are in millimeters

THREAD SIZE			M3	M3.5	M4	M5	M6	M8	M10
PITCH			0.5	0.6	0.7	0.8	1	1.25	1.5
S	Width across flats	max	5.50	6.00	7.00	8.00	10.00	13.00	16.00
		min	5.32	5.82	6.78	7.78	9.78	12.73	15.73
E	Width across corners	max	6.35	6.93	8.08	8.24	11.55	15.01	18.48
		min	6.01	6.58	7.66	8.79	11.05	14.38	17.77
M	Thickness	max	4.50	5.00	6.00	6.80	8.00	9.50	11.90
		min	3.90	4.30	5.30	6.00	7.20	8.50	10.90
M ₁	Wrenching height	min	1.40	1.70	1.90	2.70	3.00	3.70	4.80
D _w	Bearing face diameter	min	4.60	5.10	5.90	6.90	8.90	11.60	14.60
	Bearing face runout (FIM)	max	—	—	—	0.30	0.33	0.36	0.39
PART NUMBER			10	11	12	14	15	17	19

THREAD SIZE			M12	M14	M16	M20	M24	M30	M36
PITCH			1.75	2	2	2.5	3	3.5	4
S	Width across flats	max	18.00	21.00	24.00	30.00	36.00	46.00	55.00
		min	17.73	20.67	23.67	29.16	35.00	45.00	53.80
E	Width across corners	max	20.78	24.25	27.71	34.64	41.57	53.12	63.51
		min	20.03	23.35	26.75	32.95	39.55	50.85	60.79
M	Thickness	max	14.90	17.00	19.10	22.80	27.10	32.60	38.90
		min	13.90	15.80	17.90	21.50	25.60	30.60	36.90
M ₁	Wrenching height	min	6.70	7.80	9.10	10.90	13.00	15.70	19.00
D _w	Bearing face diameter	min	16.60	19.60	22.50	27.70	33.20	42.70	51.10
	Bearing face runout (FIM)	max	0.42	0.45	0.48	0.56	0.64	0.76	0.89
PART NUMBER			21	23	25	29	33	37	41

FINISH: Other finishes available, tabulated on L9991 – Finish Suffix Chart.

PT NO SUFFIX
None
B

DESCRIPTION
Unplated
0.005 Zinc

FINISH REFERENCE
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F70B1A

PART NUMBER EXAMPLE: L216P12 identifies an M4 X 0.7 mm medium carbon steel prevailing-torque type hex lock nut, with a non-metallic type insert.

This drawing and latest issue of the specification completely define the part.

SPECIFICATION	GENERAL ELECTRIC STANDARD	Drawing No.
	Lock Nut Prevailing-Torque	L216-S2
C2C103		Page 1 of 1