SEALCON

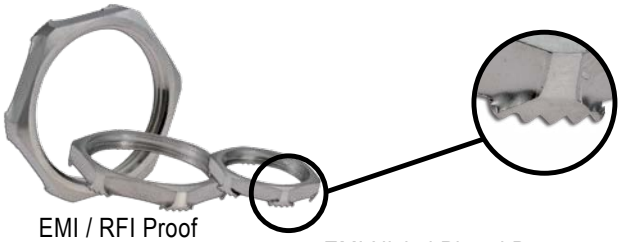
Accessories

EMI/RFI - Nickel Plated Brass: Locking Nuts

RoHS

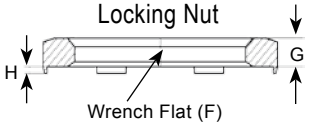
Part Numbers	Thread Type & Size	Dimens. Inches (mm)		
		G	F	H
		Thickness	Wrench Flats	Cutting Edge Height
Nickel Plate Brass w/ Cutting Edges	See page 56 for thread specs			
NP-07-BE	**PG 7**	.11 (2.8)	.59 (15)	.028 (0.7)
NP-09-BE	**PG 9**	.11 (2.8)	.71 (18)	.028 (0.7)
NP-11-BE	**PG 11**	.12 (3)	.83 (21)	.028 (0.7)
NP-13-BE	**PG 13 / 13.5**	.12 (3)	.91 (23)	.028 (0.7)
NP-16-BE	**PG 16**	.12 (3)	1.02 (26)	.028 (0.7)
NP-21-BE	**PG 21**	.14 (3.5)	1.26 (32)	.028 (0.7)
NP-29-BE	**PG 29**	.16 (4)	1.61 (41)	.028 (0.7)
NP-36-BE	**PG 36**	.20 (5)	2.01 (51)	.028 (0.7)
NP-42-BE	**PG 42**	.20 (5)	2.36 (60)	.028 (0.7)
NP-48-BE	**PG 48**	.22 (5.5)	2.52 (64)	.028 (0.7)
NN-13-BE	**1/2" NPT**	.12 (3)	.94 (24)	.028 (0.7)
NM-12-BE	**M12 X 1.5**	.11 (2.8)	.59 (15)	.028 (0.7)
NM-16-BE	**M16 X 1.5**	.11 (2.8)	.75 (19)	.028 (0.7)
NM-20-BE	**M20 X 1.5**	.12 (3)	.94 (24)	.028 (0.7)
NM-25-BE	**M25 X 1.5**	.14 (3.5)	1.18 (30)	.028 (0.7)
NM-32-BE	**M32 X 1.5**	.18 (4.5)	1.42 (36)	.028 (0.7)
NM-40-BE	**M40 X 1.5**	.20 (5)	1.81 (46)	.028 (0.7)
NM-50-BE	**M50 X 1.5**	.20 (5)	2.36 (60)	.028 (0.7)
NM-63-BE	**M63 X 1.5**	.24 (6)	2.76 (70)	.028 (0.7)

***BE-Locknuts have the following approvals: CE & German Lloyd.**



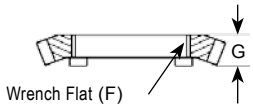
EMI / RFI Proof Locking Nut with Cutting Edges

EMI Nickel Plated Brass Locking Nut



Zinc Plated Steel: Locking Nuts

Part Numbers	Thread Type & Size	Dimens. Inches (mm)	
		G	F
		Thickness	Wrench Flats
Zinc Plated Steel	See page 56 for thread specs		
NN-10-ST	**1" NPT**	.24 (6)	1.73 (44)
NN-34-ST	**1-1/4" NPT**	.20 (5)	2.01 (53)
NN-36-ST	**1-1/2" NPT**	.16 (4)	2.19 (55.5)



Zinc Plated Steel Locking Nuts

These Locking Nuts have cutting edges which will slice through paint coatings on a metal enclosure to ensure grounding. These Locking Nuts are also suitable for applications with lots of vibration.

Nickel Plated Brass Locking Nut

Nylon Locking Nuts

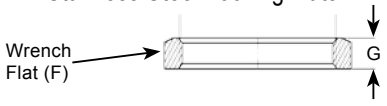
Stainless Steel (303) Locking Nut

Zinc Plated Steel Locking Nut

Stainless Steel: Locking Nuts

Part Numbers	Thread Type & Size	Dimens. Inches (mm)	
		G	F
		Thickness	Wrench Flats
303 Stainless Steel	See page 56 for thread specs		
NP-07-SS	**PG 7**	.11 (2.8)	.67 (17)
NP-09-SS	**PG 9**	.11 (2.8)	.87 (22)
NP-11-SS	**PG 11**	.12 (3)	.87 (22)
NP-13-SS	**PG 13 / 13.5**	.12 (3)	.94 (24)
NP-16-SS	**PG 16**	.12 (3)	1.06 (27)
NP-21-SS	**PG 21**	.14 (3.5)	1.26 (32)
NP-29-SS	**PG 29**	.16 (4)	1.61 (41)
NP-36-SS	**PG 36**	.20 (5)	1.97 (50)
NM-12-SS	**M12 X 1.5**	.11 (2.8)	.59 (15)
NM-16-SS	**M16 X 1.5**	.11 (2.8)	.75 (19)
NM-20-SS	**M20 X 1.5**	.12 (3)	.91 (23)
NM-25-SS	**M25 X 1.5**	.14 (3.5)	1.14 (29)
NM-32-SS	**M32 X 1.5**	.16 (4)	1.42 (36)
NM-40-SS	**M40 X 1.5**	.18 (4.5)	1.77 (45)
NM-50-SS	**M50 X 1.5**	.22 (5.5)	2.17 (55)
NM-63-SS	**M63 X 1.5**	.24 (6)	2.76 (70)

Stainless Steel Locking Nuts

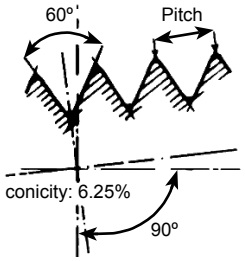


Typical Applications for Stainless Steel:

- Off-shore
- Marine
- Chemical Plants
- Food Processing
- Clean Room
- Other Rugged Applications

NPT Threads

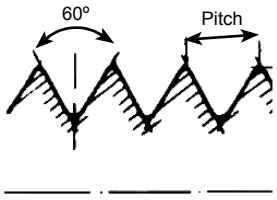
Thread Size	1/4" NPT	3/8" NPT	1/2" NPT	3/4" NPT	1" NPT	1-1/4" NPT	1-1/2" NPT	2" NPT
Major Dia. in Inches (mm)	.54 (13.72)	.675 (17.145)	.84 (21.336)	1.05 (26.67)	1.314 (33.40)	1.66 (42.164)	1.90 (48.26)	2.375 (60.325)
Pitch in Inches (mm)	.056 (1.41)	.056 (1.411)	.071 (1.814)	.071 (1.814)	.087 (2.208)	.087 (2.208)	.087 (2.208)	.087 (2.208)
Threads per Inch	18	18	14	14	11.5	11.5	11.5	11.5



- NPT Thread = National Pipe Thread
- Taper rate for all NPT threads is 1/16
- The taper on NPT threads allows them to form a seal when torqued as the flanks of the threads compress against each other, as opposed to straight thread fittings

Metric Threads

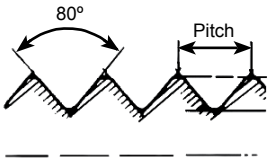
Thread Size	M6	M8	M10	M12	M16	M20	M25	M32	M40	M50	M63
Major Dia. in Inches (mm)	.24 (6)	.31 (8)	.39 (10)	.47 (12)	.63 (16)	.79 (20)	.98 (25)	1.26 (32)	1.57 (40)	1.97 (50)	2.48 (63)
Pitch in Inches (mm)	.04 (1)	.05 (1.25)	.06 (1.5)	.059 (1.5)	.059 (1.5)	.059 (1.5)	.059 (1.5)	.059 (1.5)	.059 (1.5)	.059 (1.5)	.059 (1.5)
Thru Hole in Inches (mm)	.251 (6.4)	.33 (8.4)	.413 (10.5)	.492 (12.5)	.63 (16)	.79 (20)	.98 (25)	1.26 (32)	1.57 (40)	1.97 (50)	2.48 (63)



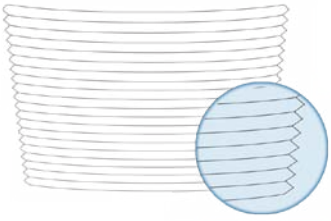
- World-wide most commonly used type thread
- Characterized by its major diameter and its pitch
- Designated by the letter M followed by the value of the nominal diameter and the pitch, both expressed in millimeters and separated by the multiplication sign '×' (i.e. M12 x 1.5)

PG Threads

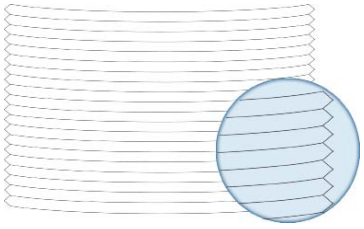
Thread Size	PG 7	PG 9	PG 11	PG 13 / 13.5	PG 16	PG 21	PG 29	PG 36	PG 42	PG 48
Major Dia. in Inches (mm)	.49 (12.5)	.60 (15.2)	.73 (18.6)	.80 (20.4)	.89 (22.5)	1.11 (28.3)	1.46 (37)	1.85 (47)	2.13 (54)	2.39 (59.3)
Pitch in Inches (mm)	.05 (1.27)	.056 (1.41)	.056 (1.41)	.056 (1.41)	.056 (1.41)	.062 (1.59)	.062 (1.59)	.062 (1.59)	.062 (1.59)	.062 (1.59)
Thru Hole in Inches (mm)	.50 (12.7)	.606 (15.4)	.74 (18.8)	.8149 (20.7)	.897 (22.8)	1.12 (28.6)	1.47 (37.4)	1.87 (47.5)	2.14 (54.5)	2.35 (59.8)



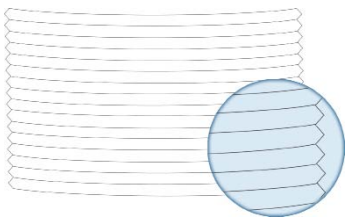
- PG Thread = Panzer-Gewinde (also Panzer-Rohr-Gewinde)
- German thread type
- Depth of thread smaller than NPT or Metric, but larger flank angle
- Straight thread



NPT Threads
(Tapered)



Metric Threads
(Straight)



PG Threads
(Straight)