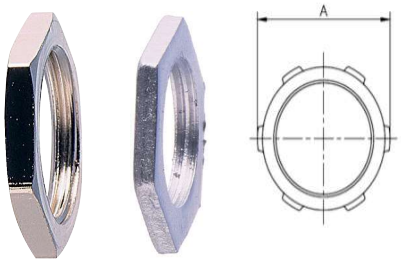
Technical Data Sheet

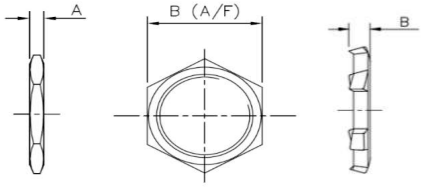
Metallic Systems
Accessories - Lock Nuts



Lock nuts, for securing threaded fittings into knocknuts and fixing holes

Features

- Female threaded locknut, made from nickel plated brass
- Degree of mechanical protection is high
- UV protection is very high



Conformity
Metric Threads EN60423 & BS3643
PG Threads DIN 40430
NPT Threads ANSI ASME B1.20.1

Approvals
N/A

Fire Performance	
Test Standard	Performance Rating
Not Rated	Not Rated

Degree of Mechanical Protection
High

IP Rating	Appropriate Fitting
For use with: see below	
N/A	

UV Protection
Very High

Temperature Range
Static Application: -50°C to +350°C
Dynamic Application: -45°C to +250°C

For Use With - Fittings
All metallic fittings in the Adaptaflex range

Type of Material	Finish
Nikel Plated Brass (LNB)	N/A
Galvanised Steel (LNS)	N/A

Testing Data
N/A

Fitting Characteristics
Female threaded locknut

Part No	Thread Size	Nominal Dimensions (mm)	
		A	B
LNB/M12x1	M10 x 1.0	3.0	17.0
LNB/M12	M12 x 1.5	3.0	17.0
LNB/M16	M16 x 1.5	3.0	20.0
LNB/M20	M20 x 1.5	3.0	24.0
LNB/M25	M25 x 1.5	3.5	30.0
LNB/M32	M32 x 1.5	5.0	38.0
LNB/M40	M40 x 1.5	5.0	50.0
LNB/M50	M50 x 1.5	6.0	60.0
LNB/M63	M63 x 1.5	7.5	70.0
LNB/M75	M75 x 1.5	7.5	84.0

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Thread Data			
Metric	Standard Thread conforming to EN60423 & BS3643		
Thread Size mm	Ext Thread Outside Diameter	Int Thread Inside Diameter	Pitch
M12	12.0	10.4	1.5
M16	16.0	14.4	1.5
M20	20.0	18.4	1.5
M25	25.0	23.4	1.5
M32	32.0	30.4	1.5
M40	40.0	38.4	1.5
M50	50.0	48.4	1.5
M63	63.0	61.4	1.5
M75	75.0	73.4	1.5

Part No	Thread Size	Nominal Dimensions (mm)	
		A	B
LNB/PG7	PG7	3.0	17.0
LNB/PG9	PG9	3.0	17.0
LNB/PG11	PG11	3.0	20.0
LNB/PG13	PG13.5	3.0	24.0
LNB/PG16	PG16	3.5	30.0
LNB/PG21	PG21	3.5	38.0
LNB/PG29	PG29	4.0	50.0
LNB/PG36	PG36	5.0	60.0
LNB/PG42	PG42	5.0	70.0
LNB/PG48	PG48	5.0	84.0

Thread Data			
PG	German Standard thread conforming to DIN40430		
Thread Size	Ext Thread Outside Diameter	Int Thread Inside Diameter	Pitch
PG7	12.5	11.3	1.27
PG9	15.2	13.9	1.41
PG11	18.6	17.3	1.41
PG13.5	20.4	19.1	1.41
PG16	22.5	21.2	1.41
PG21	28.3	26.8	1.59
PG29	37.0	35.5	1.59
PG36	47.0	45.5	1.59
PG42	54.0	52.2	1.59
PG48	59.3	57.8	1.59

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Part No	Thread Size	Nominal Dimensions (mm)	
		A	B
LNS/M16	M16 x 1.5	3.0	23.5
LNS/M20	M20 x 1.5	3.0	28.0
LNS/M25	M25 x 1.5	3.0	33.0
LNS/M32	M32 x 1.5	3.0	41.0
LNS/M40	M40 x 1.5	4.0	51.4
LNS/M50	M50 x 1.5	3.0	62.2
LNS/M75	M75 x 1.5	5.6	92.2

Thread Data			
Metric	Standard Thread conforming to EN60423 & BS3643		
Thread Size mm	Ext Thread Outside Diameter	Int Thread Inside Diameter	Pitch
M12	12.0	10.4	1.5
M16	16.0	14.4	1.5
M20	20.0	18.4	1.5
M25	25.0	23.4	1.5
M32	32.0	30.4	1.5
M40	40.0	38.4	1.5
M50	50.0	48.4	1.5
M63	63.0	61.4	1.5
M75	75.0	73.4	1.5

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Part No	Thread Size	Nominal Dimensions (Inches)	
		A	B
LNS/050	1/2“ NPT	1.122	0.209
LNS/075	3/4“ NPT	1.319	0.236
LNS/100	1“ NPT	1.713	0.236
LNS/125	1 1/4“ NPT	2.055	0.236
LNS/150	1 1/2“ NPT	2.374	0.228
LNS/200	2“ NPT	2.854	0.268

Part No	Thread Size	Nominal Dimensions (mm)	
		A	B
LNS/050	1/2“ NPT	28.5	5.3
LNS/075	3/4“ NPT	33.5	6.0
LNS/100	1“ NPT	43.5	6.0
LNS/125	1 1/4“ NPT	52.2	6.0
LNS/150	1 1/2“ NPT	60.3	5.8
LNS/200	2“ NPT	72.5	6.8

Thread Data		
NPT	US taper seal pipe thread conforming to ANSI/ASME B1.20.1-1983	
Thread Size Inch	Ext Thread Outside Diameter	Pitch
-	-	-
3/8“	16.7	1.14
1/2“	21.0	1.81
3/4“	26.4	1.81
1“	33.3	2.21
1 1/4“	41.9	2.21
1 1/2“	47.8	2.21
2“	59.6	2.21

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Nickel Plated Brass Chemical Resistance

Astm No.1	Diesel oil	Methyl Bromide	Sulphur Dioxide (Gas)
Astm No.2	Diethylamine	MEK	Sulphuric Acid (10%)
Astm No.3	Ethanol	Nitric Acid (10%)	Sulphuric Acid (70%)
Acetic Acid (10%)	Ether	Nitric Acid (70%)	Toluene
Acetone	Ethylamine	Oxalic Acid	Transformer Oil
Aluminium Chloride	Ethylene Glycol	Ozone (Gas)	1,1,1-Trichloroethane
Aniline	Ethyl Ethanoate	Paraffin oil	Trichloroethylene
Benzaldehyde	Freon 32	Petrol	Turpentine
Benzene	Hydrochloric Acid (10%)	Phenol	Vegetable Oil
Carbon tetrachloride	Hydrochloric Acid (36%)	Sea Water	Vinyl Acetate
Chlorine water	Hydrogen Peroxide (35%)	Silver Nitrate	Water
Chloroform	Hydrogen Peroxide (87%)	Skydrol	White Spirit
Citric Acid	Lactic Acid	Sodium Chloride	Zinc Chloride
Copper Sulphate	Lubricating oil	Sodium Hydroxide (10%)	
Cresol	Methanol	Sodium Hydroxide (60%)	

Key:

Suitable
Limited Suitability
Unsuitable
Not Tested

Galvanised Steel Chemical Resistance

Astm No.1	Diesel oil	Methyl Bromide	Sulphur Dioxide (Gas)
Astm No.2	Diethylamine	MEK	Sulphuric Acid (10%)
Astm No.3	Ethanol	Nitric Acid (10%)	Sulphuric Acid (70%)
Acetic Acid (10%)	Ether	Nitric Acid (70%)	Toluene
Acetone	Ethylamine	Oxalic Acid	Transformer Oil
Aluminium Chloride	Ethylene Glycol	Ozone (Gas)	1,1,1-Trichloroethane
Aniline	Ethyl Ethanoate	Paraffin oil	Trichloroethylene
Benzaldehyde	Freon 32	Petrol	Turpentine
Benzene	Hydrochloric Acid (10%)	Phenol	Vegetable Oil
Carbon tetrachloride	Hydrochloric Acid (36%)	Sea Water	Vinyl Acetate
Chlorine water	Hydrogen Peroxide (35%)	Silver Nitrate	Water
Chloroform	Hydrogen Peroxide (87%)	Skydrol	White Spirit
Citric Acid	Lactic Acid	Sodium Chloride	Zinc Chloride
Copper Sulphate	Lubricating oil	Sodium Hydroxide (10%)	
Cresol	Methanol	Sodium Hydroxide (60%)	

The information above is given as a guide only and is based on published technical data and experience. The chemical resistance of the above products is dependant on factors such as chemical exposure, concentration of the chemical and temperature. The above chemicals are valid for a temperature of 23°C. Use of the above table is at the users own discretion and risk. Those using it must satisfy themselves that their application presents no health and safety risks. The end user should assess compatibility with their application and contact Thomas & Betts for further information.

ADHERENCE TO THE CURRENT WIRING REGULATIONS BS7671 OR NEC WIRING REGULATIONS (FOR USA) IS STRONGLY ADVISED.
MINIMUM BEND RADIUS FOR FLEXING IS DEPENDANT UPON MINIMUM TEMPERATURE, BENDING FREQUENCY AND CHEMICAL ENVIRONMENT.