

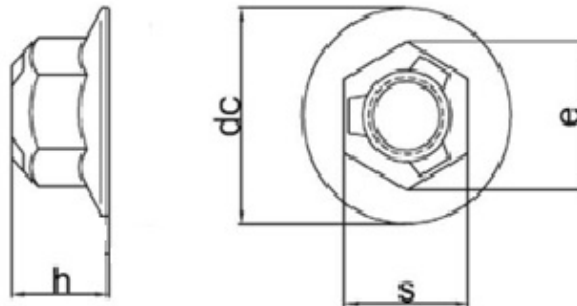
P R O D U C T D A T A S H E E T

USA/CA: brightonBEST.com Europe: brightonBEST.org AU: brightonBEST.com.au NZ: brightonBEST.co.nz Brazil: brightonBEST.com.br

DIN 6927 Flange All Metal Lock Nuts - Metric Series

1.0 Dimensions: DIN 6927

2.0 Key Dimensions



2.1 Key Dimensions Table

Thread Size	Width Across Flats		Width Across Corners	Nut Height	Flange Diameter
	S		e	h	dc
	Maximum	Minimum	Minimum	Maximum	Maximum
M5	8	7.78	8.79	6.2	11.8
M6	10	9.78	11.05	7.3	14.2
M8	13	12.73	14.38	9.4	17.9
M10	15	14.73	16.64	11.4	21.8
M12	18	17.73	20.03	13.8	26.0
M14	21	20.67	23.36	15.9	29.9
M16	24	23.67	26.75	18.3	34.5
M20	30	29.16	32.95	22.4	42.8

Notes:

- 1) All dimensions in millimeters.
- 2) Thread tolerance: 6H. For a detailed explanation of thread tolerances and dimensions for all thread sizes, refer to the Product Data Sheet on "Thread Details Metric Series".
- 3) BBI stocks most sizes and in coarse threads. If we do not stock a size, it is available through our Mill department.
- 4) The prevailing torque design and the number of deformations is at the manufacturer's option.
- 5) Comparison to ISO: DIN 6927 is comparable and interchangeable with ISO 7044.

Disclaimer: The above is a compilation of data, from various industry standards. BBI has taken every effort to present the data accurately. However BBI cannot be held liable for any claim traceable to any errors typographical or otherwise contained herein.



P R O D U C T D A T A S H E E T

USA/CA: brightonBEST.com Europe: brightonBEST.org AU: brightonBEST.com.au NZ: brightonBEST.co.nz Brazil: brightonBEST.com.br

DIN 6927 Flange All Metal Lock Nuts - Metric Series

3.0 Mechanical Properties:

A detailed explanation of the metric property class designations for various types of fasteners can be found in the Product Data Sheet (PDS) titled "Property Classes Metric Series".

3.1 Steel: Mechanical Properties Table. Standard: ISO 898-2

Property Class	8 (Coarse Thread)		10 (Coarse Thread)	
Hardness	91.5 HRB to 33.9 HRC		26.5 HRC to 36.9 HRC	
Approximate Proof Load Strength	Thread Diameter	Proof Load	Thread Diameter	Proof Load
	M5 & M6	855 MPa	M5 to M10	1040 MPa
	M8 & M10	870 MPa		
	M12 to M16	880 MPa	M12 to M16	1050 MPa
	M20	920 MPa	M20	1060 MPa
Property Class Marking	8		10	

Notes:

- 1) BBI currently stocks property classes 8 and 10 DIN 6927 nuts in coarse threads and in most sizes. Requirements for other property classes and fine thread sizes can be made and supplied through our Mill department.
- 2) Prevailing torque requirements in accordance with DIN 267 Part 15.
- 3) 1 MPa = Megapascal, the metric unit similar to Inch PSI and used for proof load strength of nuts. It is also termed as N/mm² (Newton Per millimeter square). 1 MPa = 1 N/mm² = 145.03773 psi.

4.0 Surface Finish:

Steel: Plain and Zinc Plated. Zinc plating details shown in the table below.

Plating	Zinc	Zinc Yellow
Type	Trivalent (Cr+3)	Hexavalent (Cr+6) or Trivalent (Cr+3)
Color	Clear	Yellow
Minimum Coating Thickness	0.0001" / 3 Microns	0.0001" / 3 Microns or 0.0001"
Specification	ASTM F1941/F1941M Fe/Zn 3AN	ASTM F1941/F1941M, Fe/Zn 3C or Fe/Zn 3CN