



BRIGHTON-BEST INTERNATIONAL

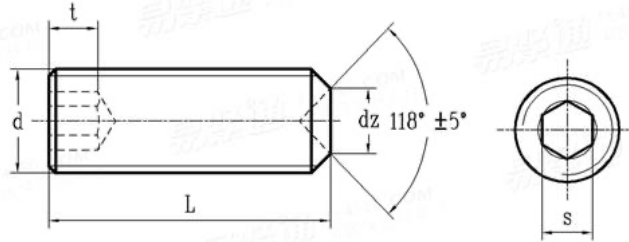


P R O D U C T D A T A S H E E T

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Hexagon Socket Set Screws Cup Point - Inch Series

1.0 Dimensions: ASME B18.3.



Nominal Size or Basic Product Diameter d	S	t	dz		B
	Hexagon Socket Size	Key Engagement	Point Diameter		Shortest Optimum Nominal Length*
	Nom	Min	Max	Min	Nom
# 0	0.028	0.050	0.033	0.027	0.13
# 1	0.035	0.060	0.040	0.033	0.13
# 2	0.035	0.060	0.047	0.039	0.13
# 3	0.050	0.070	0.054	0.045	0.19
# 4	0.050	0.070	0.061	0.051	0.19
# 5	1/16	0.080	0.067	0.057	0.19
# 6	1/16	0.080	0.074	0.064	0.19
# 8	5/64	0.090	0.087	0.076	0.19
# 10	3/32	0.100	0.102	0.088	0.19
1/4	1/8	0.125	0.132	0.118	0.25
5/16	5/32	0.156	0.172	0.156	0.31
3/8	3/16	0.188	0.212	0.194	0.38
7/16	7/32	0.219	0.252	0.232	0.44
1/2	1/4	0.250	0.291	0.270	0.50
5/8	5/16	0.312	0.371	0.347	0.63
3/4	3/8	0.375	0.450	0.425	0.75
7/8	1/2	0.500	0.530	0.502	0.88
1	9/16	0.562	0.609	0.579	1.00
1-1/8	9/16	0.562	0.689	0.655	1.25
1-1/4	5/8	0.625	0.767	0.733	1.25
1-3/8	5/8	0.625	0.848	0.808	1.50
1-1/2	3/4	0.750	0.926	0.886	1.50

Notes: *Minimum key engagement "t" is applicable only to nominal screw lengths equal to or longer than the lengths in column B. Thread Class of Fit: 3A.

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.



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2.0 Mechanical Properties:

Set screws are subjected to compressive stress in applications. Tensile testing is not carried out on set screws.

2.1 Alloy Steel

Standard: ASTM F912

Hardness: HRC 45 to 53.

Hardness, Decarburization & Torsional strength test are the requisite mechanical properties to be met by the alloy steel socket set screws.

2.2 Stainless Steel

Standard: ASTM F880

Condition: CW

Hardness: 96 HRB to 33 HRC.

Hardness and Torsional strength test are the requisite mechanical properties to be met by the stainless steel socket set screws. Set screws (Stainless steel only) of sizes above 1/2 " are not subjected to torsional strength test.

The set screws will not have any markings.

3.0 Surface Finish:

Alloy Steel: Thermal Black Oxide Finish.

Stainless Steel: Passivated.

Properties	Zinc Clear	Mechanical Zinc
Type	Trivalent (Cr+3)	Trivalent (Cr+3)
Color	Clear	Clear
Minimum Coating Thickness	0.0001" / 3 Microns	0.0003 " / 8 Microns
Specification	ASTM F1941 / F1941M. Fe/Zn 3AN	ASTM B695. Class 8. Type II.

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