

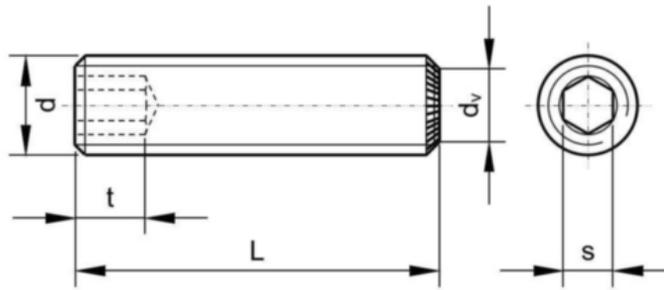


## PRODUCT DATA SHEET

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# Hexagon Socket Set Screws Knurled Cup Point Inch Series

### 1.0 Dimensions: ASME B18.3.



Nominal Size or Basic Product Diameter d	S	t	dv		B
	Hexagon Socket Size	Key Engagement	Point Diameter		Shortest Optimum Nominal Length *
	Nom	Min	Max	Min	Nom
# 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

**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.



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

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## 2.0 Mechanical Properties:

### 2.1 Alloy Steel

**Standard:** ASTM F912

**Hardness:** HRC 45 to 53.

Set screws are subjected to compressive stress in applications. Tensile testing is not carried out on set screws. Hardness, Decarburization & Torsional strength test are the requisite mechanical properties to be met by the alloy steel socket set screws.

The set screws will not have any marking.

## 3.0 Surface Finish:

Thermal Black Oxide & Zinc Plating. Zinc plating as per details given in the table below:

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