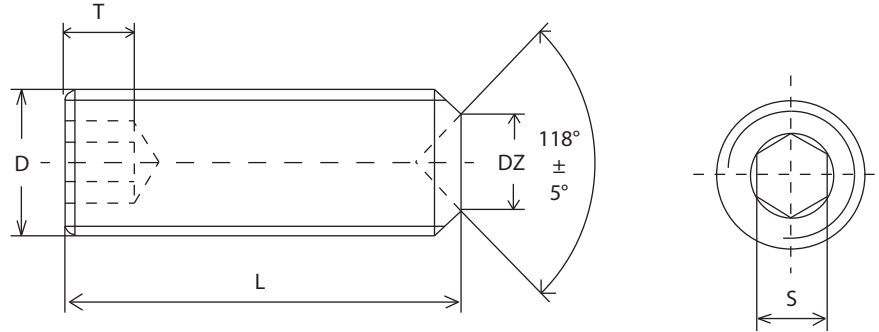


PRODUCT DATA SHEET

HEXAGON SOCKET SET SCREWS CUP POINT

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

PRODUCT DATA SHEET

HEXAGON SOCKET SET SCREWS CUP POINT

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 screw 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