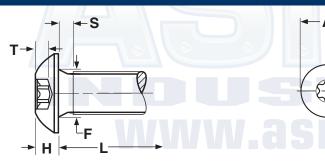
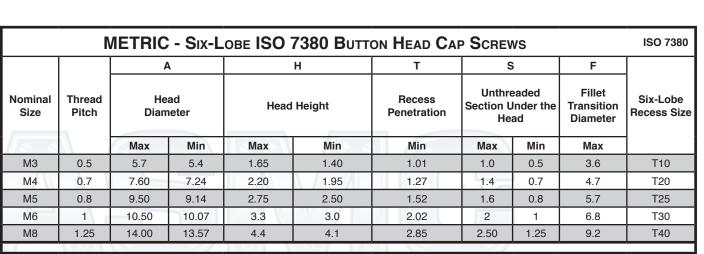
Tolerance on Length

SOCKETS, SIX-LOBE

ISO 7380-1 TX Six-Lobe

35-50mm: ±.5





8-10mm: ±.29

12-16mm: ± .35

6mm: ±.24

20-30mm: ±.42

Description	Has a similar thread design as a metric socket cap screw but is fully threaded to the head. The dome shaped head is wider and has a lower profile than a socket cap screw and has a six-lobed recess.	
Applications/ Advantages	Used when a wider bearing surface or a smoother, more finished appearance is desired, or in material too thin to accomodate a countersunk head. Button head screws do not afford the strength of socket head cap screws due to their head geometry and are designed for light fastening applications.	
Material	Class 10.9 Steel	Stainless
	May be made from a steel, which conforms to any of the following chemical composition requirements <u>Carbon Steel:</u> <i>Carbon</i> : 0.25-0.55%; <i>Phosphorous</i> : 0.035% maximum; <i>Sulfur</i> : 0.035% maximum.	
	<u>Carbon Steel with additives such as Boron, Manganese or Chromium:</u> <u>Carbon</u> : 0.20-0.55%; <u>Phosphorous</u> : 0.035% max; <u>Sulfur</u> : 0.035% max.	A2 Class 50 Stainless Steel
	Alloy steel which contains one or more of the following: Chromium,	
	Nickel, Molybdenum or Vanadium: <i>Carbon</i> : 0.20-0.55%; <i>Phosphorous</i> : 0.035% max; <i>Sulfur</i> : 0.035% max.	
Heat Treatment	Class 10.9 button head screws shall be heat treated by quenching in oil from above the transformation temperature and reheating to a tempering temperature of 425°C minimum.	
Hardness	Rockwell C 32 - 39 (Vickers HV 320 - 380)	
Tensile Strength	1,040 N/mm² minimum	600 N/mm ²
Proof Load	940 N/mm² minimum	450 N/mm²
Plating	Screws are usually provided with a zinc finish.	Stainless screws are provided with a plain finish.