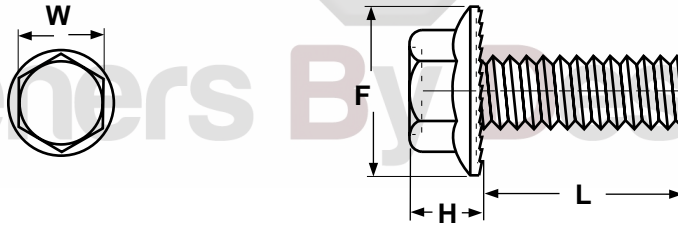


# Cap Screws & Bolts

# Serrated Hex Washer Flange Screws



SERRATED HEX WASHER HEAD FLANGE SCREWS						
Size (Diameter & Thread Pitch)	W		H		F	
	Width Across Flats		Thickness		Flange Diameter	
	Max	Min	Max	Min	Max	Min
4-40	.188	.181	.079	.060	.243	.225
6-32	.187	.181	.157	.132	.266	.254
8-32	.250	.244	.186	.161	.355	.341
10-24 & 10-32	.312	.305	.210	.185	.441	.425
12-24	.312	.305	.240	.161	.520	.398
1/4-20 & 1/4-28	.375	.367	.240	.216	.531	.513
5/16-18 & 5/16-24	.500	.491	.298	.274	.706	.686
3/8-16 & 3/8-24	.562	.552	.331	.307	.793	.771
7/16-14	.625	.612	.460	.365	.930	.856
1/2-13 & 1/2-20	.750	.736	.510	.470	1.070	1.020
5/8-11	.9375	.922	.620	.580	1.330	1.260
3/4-10	1.1250	1.100	.730	.680	1.590	1.490

Tolerance on Length (ASME B18.6.3)	Nominal Screw Size	Nominal Screw Length			
		Up to 1/2 in., incl.	Over 1/2 in. to 1 in., incl.	Over 1 in. to 2 in., incl.	Over 2 in.
	No. 4 thru 12	-0.02	-0.03	-0.06	-0.09

Tolerance on Length (ASME B18.2.1)	Nominal Screw Size	Up to 1 in., incl.	Over 1 in. to 2-1/2 in., incl.	Over 2-1/2 in. to 4 in., incl.	Over 4 in. to 6 in., incl.	Over 6 in.
	1/4 thru 3/8	-0.03	-0.04	-0.06	-0.10	-0.18
	7/16 thru 1/2	-0.03	-0.06	-0.08	-0.10	-0.18
	9/16 thru 3/4	-0.03	-0.08	-0.10	-0.10	-0.18

Description	An unslotted hex-washer screw with a thick flange and serrations on the bearing surface side.
Applications/ Advantages	Designed for use in applications where loosening forces are present, such as vibration. The serrations grip to the bearing surface so that significantly more torque is needed to loosen than to tighten the screw. Flange provides more strength than a standard machine screw. Eliminates need for a lockwasher or locknut.
Material	AISI C1022 steel.
Heat Treatment	Serrated flange screws shall be heat treated, quenched and tempered at a minimum temperature of 650°F.
Surface Hardness	No. 6 through 3/4 in. diameter, all lengths: Rockwell 30N57.5 maximum
Core Hardness	No. 6 through 3/4 in. diameter, all lengths: Rockwell C25 - C38
Proof Load	No. 6 through 3/4 in. diameter, all lengths: 85,000 psi.
Tensile Strength	No. 6 through 3/4 in. diameter, all lengths: 120,000 psi. minimum
Plating	See Appendix-A for plating information.